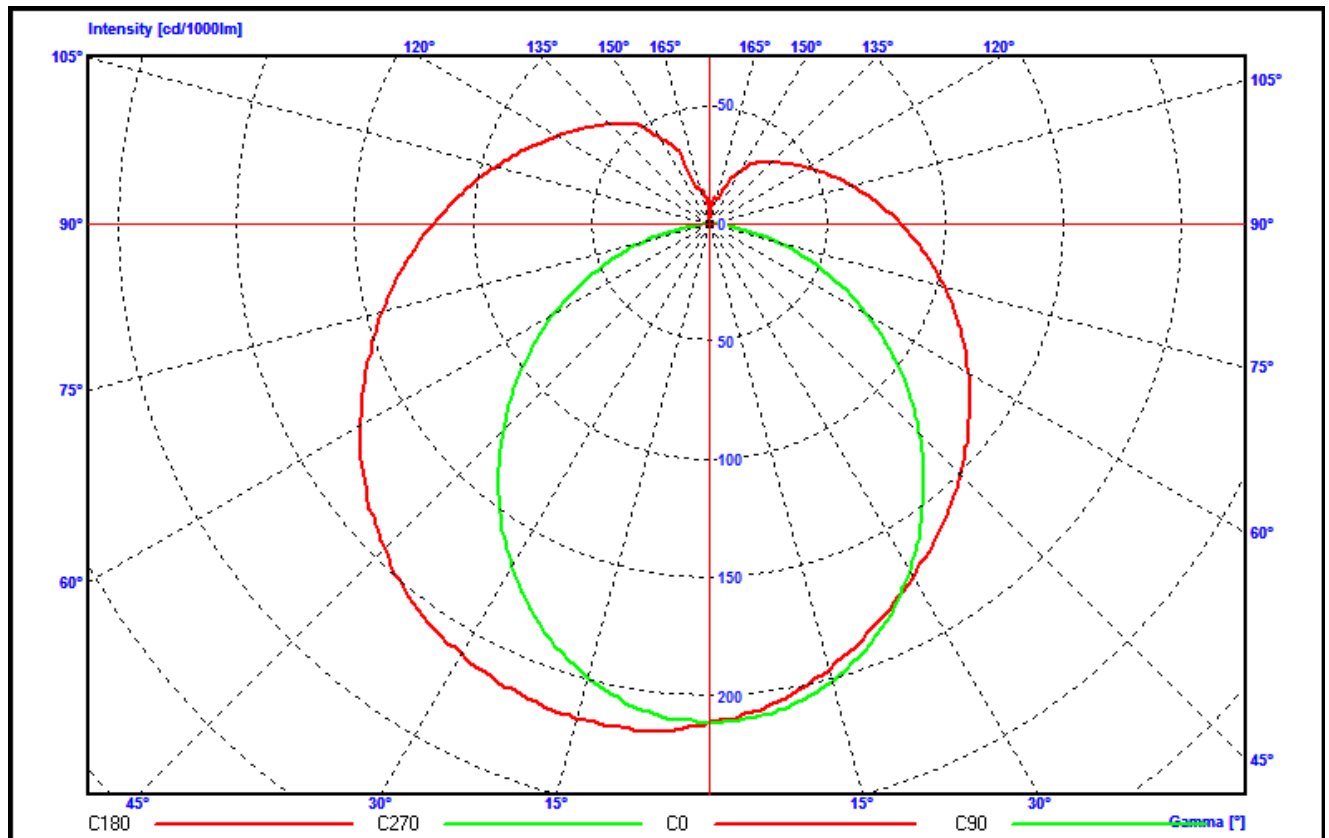


# LEDVANCE Lighting Co.Ltd.

## PHOTOMETRIC RESULTS

<b>Program:</b>	T8/T5 C15 G5 180		
<b>Name:</b>	2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)		
<b>Meas.-no.:</b>	1		
<b>Flux:</b>	3002.89 lm		<b>Operator:</b> Thomas.liu
<b>Comment:</b>	UI=230.05V II=0.1097A WI=24.21W PF=0.9592		
<b>Maximum intensity:</b>	651.855 cd		

Polar diagram 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling) / C-Plane measurement



<b>Program:</b>	T8/T5 C15 G5 180		
<b>Name:</b>	2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(h		
<b>Meas.-no.:</b>	1		
<b>Flux:</b>	3002.89 lm		<b>Operator:</b> Thomas.liu
<b>Comment:</b>	UI=230.05V II=0.10		
<b>Maximum intensity:</b>	651.855 cd		

# LEDVANCE Lighting Co.Ltd.

## PHOTOMETRIC RESULTS

<b>Program:</b>	T8/T5 C15 G5 180		
<b>Name:</b>	2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)		
<b>Meas.-no.:</b>	1		
<b>Flux:</b>	3002.89 lm		<b>Operator:</b> Thomas.liu
<b>Comment:</b>	UI=230.05V II=0.1097A WI=24.21W PF=0.9592		
<b>Maximum intensity:</b>	651.855 cd		

Intensity [cd] 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)  
/ C-Plane measurement

G/C [cd]	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00
0.00	632.5	630.5	635.0	633.4	633.7	633.4	634.1	633.0	632.3
1.00	630.1	628.5	631.0	633.7	633.0	635.7	633.7	635.7	634.6
2.00	630.1	628.3	631.4	630.3	634.1	632.3	630.7	633.4	637.2
3.00	628.3	626.5	627.4	630.1	631.9	633.0	633.2	635.7	638.4
4.00	623.5	624.0	624.7	625.8	627.6	628.7	629.4	633.4	636.6
5.00	620.8	620.8	624.9	624.0	628.5	629.8	630.5	635.2	639.0
6.00	619.9	618.8	622.2	620.8	623.8	625.3	626.5	631.6	639.5
7.00	615.0	613.7	616.1	620.8	623.5	625.1	627.1	632.8	638.8
8.00	611.4	610.1	614.1	614.8	620.6	622.6	622.2	629.2	635.7
9.00	610.5	609.2	612.8	614.6	618.4	617.7	622.4	629.6	635.0
10.00	604.4	603.1	607.4	607.8	614.6	614.1	618.2	627.6	633.7
11.00	600.4	601.3	602.9	607.1	611.2	611.0	616.6	625.3	631.9
12.00	598.2	597.0	599.1	603.1	607.1	609.8	610.7	619.9	632.8
13.00	591.9	593.0	595.5	596.6	600.8	605.6	609.6	619.7	630.5
14.00	589.8	586.5	590.3	594.3	598.4	601.3	603.5	613.7	626.2
15.00	585.8	584.4	586.0	590.1	594.3	596.4	601.7	613.0	623.1
16.00	579.3	579.7	583.8	584.4	586.7	589.2	596.8	608.7	620.4
17.00	575.0	575.7	575.7	577.0	582.6	586.7	592.1	602.4	619.5
18.00	570.3	568.7	571.4	574.3	579.3	579.3	584.9	599.9	615.7
19.00	567.6	566.2	567.1	567.4	573.7	573.9	582.2	593.0	609.6
20.00	562.6	560.6	564.0	563.8	565.6	570.1	575.9	591.0	605.6
21.00	555.7	555.2	556.6	557.0	561.8	563.8	570.7	585.8	604.2
22.00	551.2	550.3	553.2	552.5	555.7	557.9	562.0	580.6	597.3
23.00	547.6	546.7	546.2	544.9	547.8	550.3	556.8	574.3	592.3
24.00	542.9	542.0	541.3	540.6	542.7	545.3	550.7	566.7	587.1
25.00	539.7	536.1	536.8	533.9	534.8	536.4	544.9	562.6	584.2
26.00	533.4	531.4	532.8	528.0	529.6	530.7	536.8	555.7	579.1
27.00	528.5	528.3	525.8	522.0	521.8	524.2	530.3	549.6	573.4
28.00	525.8	522.0	520.6	515.2	515.7	516.6	521.5	543.3	565.1
29.00	521.3	517.5	517.3	509.8	508.0	508.0	515.0	535.0	561.8
30.00	516.6	513.7	511.4	503.6	500.6	501.8	507.4	529.4	555.7
31.00	510.1	507.8	505.6	496.8	494.6	492.8	499.5	520.6	548.9
32.00	505.8	503.3	499.1	490.1	486.9	486.0	491.9	513.9	541.3
33.00	503.6	499.5	494.6	484.5	479.1	477.5	483.6	505.8	536.1

## LEDVANCE Lighting Co.Ltd.

# 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)

Intensity [cd] 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)  
/ C-Plane measurement

G/C [cd]	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00
34.00	499.1	494.3	488.7	477.9	473.0	470.1	476.1	497.0	529.6
35.00	494.3	488.9	483.3	472.1	465.1	460.9	466.0	489.6	522.0
36.00	489.4	485.4	477.9	465.4	457.0	451.9	458.4	481.3	514.3
37.00	485.1	480.9	473.7	458.8	449.0	444.0	448.5	474.1	507.6
38.00	480.6	475.5	468.1	452.5	442.4	435.2	440.4	465.1	501.5
39.00	476.8	471.2	461.8	446.0	434.1	427.2	431.6	457.3	493.2
40.00	472.3	465.8	457.5	440.0	426.7	418.2	422.2	447.8	485.8
41.00	466.7	462.2	451.9	433.2	418.8	408.7	412.8	439.3	479.5
42.00	463.6	457.7	446.5	425.8	411.4	400.9	404.5	430.5	471.4
43.00	459.1	451.9	441.1	420.6	402.9	392.1	394.6	422.0	463.1
44.00	453.2	447.6	436.6	414.1	395.0	382.9	386.3	413.0	455.2
45.00	450.1	442.4	430.3	407.4	388.5	373.2	375.7	404.0	448.7
46.00	444.9	438.8	425.6	401.3	380.9	364.9	367.4	393.9	440.2
47.00	440.4	433.0	420.0	395.0	372.3	355.3	357.0	385.6	431.9
48.00	435.5	428.5	414.3	389.2	364.5	346.9	346.9	375.7	423.6
49.00	430.5	424.5	408.7	381.8	357.5	337.7	337.7	366.3	416.4
50.00	427.4	419.3	404.5	376.1	349.6	329.2	328.7	357.7	407.8
51.00	422.2	413.9	398.6	369.6	342.2	319.7	318.2	348.1	400.6
52.00	417.3	409.6	393.2	364.2	335.3	311.2	308.3	339.3	392.3
53.00	411.9	404.9	388.3	357.5	327.6	301.5	299.3	329.4	384.5
54.00	408.1	400.2	383.3	351.7	319.7	292.6	289.4	319.7	375.7
55.00	403.1	394.3	377.3	345.6	313.2	284.2	280.2	311.4	368.3
56.00	398.8	390.3	371.7	339.5	305.6	275.0	269.4	301.3	360.6
57.00	394.1	385.8	366.9	332.8	298.0	266.5	260.0	292.6	352.3
58.00	389.0	380.6	362.7	327.4	291.9	257.3	250.5	283.3	344.0
59.00	384.2	375.5	357.0	321.1	284.2	249.4	240.4	273.5	335.7
60.00	379.1	371.2	350.8	315.0	276.8	240.7	231.4	265.1	328.7
61.00	373.9	365.8	346.5	309.4	270.1	232.3	221.1	255.9	320.9
62.00	370.3	361.3	341.5	303.8	263.6	223.1	211.9	246.3	312.8
63.00	364.9	356.4	335.5	298.4	256.4	215.7	202.7	237.5	304.9
64.00	360.4	351.0	330.1	293.0	250.1	206.9	192.8	228.5	298.4
65.00	355.3	346.9	325.4	286.3	243.1	198.4	182.9	220.0	290.3
66.00	350.3	342.0	320.6	281.3	236.6	190.5	173.2	210.5	282.9
67.00	346.5	336.6	315.0	275.7	230.5	182.5	164.0	202.2	276.4
68.00	340.9	331.9	310.8	270.5	224.3	174.8	154.8	193.5	268.5
69.00	335.9	326.9	305.1	265.4	217.5	166.7	145.4	185.6	261.1
70.00	331.9	322.7	300.9	259.8	212.3	159.1	136.4	177.1	255.3
71.00	327.2	318.0	295.7	254.8	206.1	151.9	127.2	168.5	248.3
72.00	322.2	313.0	290.5	249.9	200.2	145.2	118.2	161.1	241.8
73.00	317.5	307.8	285.6	244.0	193.9	137.5	109.4	153.2	234.8
74.00	312.3	303.6	281.8	239.3	188.7	130.8	100.9	145.8	228.7
75.00	308.5	299.1	275.9	234.4	183.1	123.8	92.8	138.6	223.4
76.00	304.0	294.1	271.4	229.9	177.5	117.5	83.8	131.2	216.8

## LEDVANCE Lighting Co.Ltd.

# 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)

Intensity [cd] 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)  
/ C-Plane measurement

G/C [cd]	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00
77.00	298.9	289.4	267.2	225.1	172.3	111.0	75.7	124.3	211.2
78.00	294.6	284.7	262.9	220.0	167.2	104.7	67.6	118.0	205.2
79.00	289.6	280.9	258.4	215.9	162.5	99.1	60.2	111.7	200.0
80.00	285.4	275.9	253.5	211.2	157.5	93.3	52.6	105.8	195.3
81.00	280.9	271.7	249.0	206.3	152.6	88.1	45.4	100.0	190.1
82.00	275.9	266.9	244.9	202.0	147.9	82.7	38.0	94.6	185.2
83.00	271.4	263.1	240.4	198.2	143.8	78.2	31.7	89.7	181.1
84.00	267.6	258.6	236.2	193.9	139.3	73.5	25.4	85.2	176.2
85.00	263.1	253.9	232.1	189.9	135.3	69.2	19.5	80.9	171.9
86.00	258.6	249.6	227.8	185.4	131.4	64.9	14.2	76.8	168.5
87.00	254.4	246.0	223.4	181.6	127.2	61.6	9.7	73.7	164.5
88.00	250.1	242.0	219.8	177.5	123.4	58.0	6.1	70.6	160.7
89.00	245.8	237.5	215.5	173.7	120.2	55.1	4.0	67.9	157.1
90.00	242.5	233.9	211.7	170.3	116.6	52.1	3.1	65.4	154.1
91.00	238.6	229.6	207.6	166.7	113.7	49.7	2.9	63.1	150.8
92.00	234.6	225.6	204.3	163.4	110.3	47.4	2.9	61.8	147.9
93.00	230.5	222.2	200.2	159.5	107.4	45.6	2.9	60.2	144.9
94.00	226.5	218.2	197.1	156.4	104.3	43.8	2.9	59.1	142.5
95.00	222.5	214.1	193.2	153.2	101.8	42.0	2.9	58.0	140.0
96.00	218.6	211.0	189.4	150.1	99.3	40.9	2.9	57.3	137.5
97.00	215.5	207.2	185.8	147.0	96.6	39.5	2.9	56.6	135.9
98.00	211.7	203.1	182.7	143.8	94.1	38.6	2.7	56.2	133.5
99.00	207.6	199.8	179.1	140.7	92.1	38.0	2.7	56.2	131.4
100.00	204.0	196.8	175.7	138.0	89.9	37.3	2.9	56.0	129.9
101.00	200.7	193.0	172.6	135.3	87.9	36.9	3.1	56.0	128.3
102.00	197.1	189.4	169.6	132.8	86.1	36.4	3.1	56.0	126.5
103.00	193.9	186.1	166.5	130.1	84.3	36.2	3.4	56.2	124.9
104.00	190.5	183.4	163.4	127.4	82.5	36.2	3.6	56.4	123.6
105.00	187.0	180.0	160.2	124.9	80.9	36.2	3.6	56.8	122.2
106.00	183.8	176.6	157.5	122.2	79.5	36.4	3.6	57.3	120.9
107.00	180.7	173.2	154.6	120.2	78.2	36.4	3.6	57.7	120.0
108.00	178.0	170.5	151.4	117.7	77.1	36.9	3.4	58.2	118.9
109.00	174.8	167.6	149.2	115.9	75.7	37.1	3.4	58.9	118.0
110.00	171.4	164.7	146.3	113.7	74.6	36.6	3.4	59.1	116.8
111.00	168.5	161.6	143.8	111.7	73.5	36.2	3.1	58.2	116.2
112.00	165.4	158.4	140.9	109.7	72.4	35.3	3.1	56.6	115.3
113.00	162.2	155.7	138.2	107.9	70.1	33.7	3.1	55.5	114.6
114.00	159.8	153.2	135.7	105.8	67.6	32.8	2.9	54.6	113.7
115.00	157.1	150.3	133.5	103.8	65.8	32.6	2.9	54.2	113.2
116.00	154.4	147.6	131.0	100.9	63.8	32.4	2.9	54.2	112.8
117.00	151.4	144.7	129.0	97.3	61.8	32.1	2.9	54.2	112.1
118.00	149.0	142.2	126.7	93.7	60.2	32.1	2.9	54.4	111.7
119.00	146.1	140.0	124.5	90.6	58.9	32.1	2.7	54.8	111.0

## LEDVANCE Lighting Co.Ltd.

# 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)

Intensity [cd] 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)  
/ C-Plane measurement

G/C [cd]	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00
120.00	143.4	137.3	122.5	87.4	57.3	31.9	2.7	55.3	110.6
121.00	141.1	135.0	120.2	84.7	56.0	32.1	2.9	55.7	110.3
122.00	138.4	132.8	117.7	81.6	54.8	32.1	2.7	56.2	109.7
123.00	136.2	130.3	113.9	78.9	53.7	32.1	2.9	56.4	109.2
124.00	133.7	127.9	110.1	76.6	52.6	32.4	2.9	57.1	109.0
125.00	131.2	126.1	106.1	74.2	51.2	32.6	2.9	57.5	108.3
126.00	128.8	123.8	102.0	71.9	50.1	32.6	2.9	58.0	107.0
127.00	127.0	121.6	98.4	70.1	49.2	32.8	2.9	58.6	104.9
128.00	124.9	119.3	94.8	68.3	47.4	33.0	2.9	58.9	102.0
129.00	122.5	117.3	91.5	66.5	44.9	33.0	2.9	59.1	100.0
130.00	120.2	115.3	88.3	64.9	43.8	33.5	2.9	59.5	97.7
131.00	118.2	113.7	85.4	63.1	42.9	33.7	2.9	59.5	96.4
132.00	116.2	111.7	82.7	61.6	42.2	33.7	2.9	59.5	95.3
133.00	114.1	109.4	79.8	60.2	41.8	34.2	2.9	59.8	93.7
134.00	112.1	107.2	77.1	58.2	41.1	34.2	3.1	59.8	92.8
135.00	110.6	104.7	75.0	56.4	40.9	34.4	3.1	59.8	91.7
136.00	109.0	100.7	72.6	55.1	41.1	34.6	3.1	60.0	91.0
137.00	107.0	96.8	70.3	53.3	41.1	35.3	3.1	60.0	90.1
138.00	105.2	92.8	68.1	50.3	41.1	36.0	3.1	59.8	89.2
139.00	103.4	89.2	66.1	47.9	40.9	36.9	3.1	59.8	88.5
140.00	102.0	85.4	63.6	46.1	41.1	37.7	3.1	59.8	88.1
141.00	100.4	82.0	61.3	44.7	41.8	38.4	3.1	60.0	87.2
142.00	99.1	78.4	59.1	44.3	42.2	39.1	3.1	60.0	86.5
143.00	97.3	74.6	56.4	44.0	42.7	39.8	3.1	60.2	86.1
144.00	95.3	71.2	53.0	44.0	42.9	40.7	3.1	60.4	85.8
145.00	93.3	67.9	49.9	44.3	43.6	41.1	3.1	60.7	85.4
146.00	91.2	63.6	47.2	44.3	44.3	42.0	3.1	60.7	84.9
147.00	88.5	58.0	44.9	44.5	45.6	42.9	3.1	58.9	84.3
148.00	84.9	54.2	43.4	44.7	46.7	43.6	3.1	58.0	84.0
149.00	81.6	51.0	42.2	44.9	48.1	44.0	3.1	56.8	83.6
150.00	78.6	47.9	41.6	44.7	49.2	43.8	3.4	55.7	82.9
151.00	76.2	45.2	40.9	44.7	49.9	41.3	3.1	55.1	82.7
152.00	74.2	42.9	40.2	45.6	50.6	38.4	3.4	54.4	82.5
153.00	72.4	41.3	39.8	45.8	51.5	35.3	3.4	54.2	82.0
154.00	69.4	39.8	39.5	46.3	52.1	32.6	3.4	53.9	81.8
155.00	66.1	38.4	39.5	46.5	52.6	29.4	3.4	53.9	81.1
156.00	64.9	38.0	39.8	47.2	52.8	26.5	3.4	53.9	80.7
157.00	56.4	37.5	40.4	48.3	53.0	24.3	3.4	53.7	80.2
158.00	52.8	37.1	41.1	49.9	53.0	22.5	3.4	53.7	79.8
159.00	50.1	36.6	41.8	51.2	53.5	21.8	3.4	53.7	79.5
160.00	47.0	36.4	42.5	51.9	53.9	21.3	3.4	53.5	79.1
161.00	35.7	35.7	42.9	52.8	54.4	20.7	3.4	53.3	78.4
162.00	34.6	35.5	44.0	53.5	55.3	20.2	3.4	52.8	75.9

# LEDVANCE Lighting Co.Ltd.

## 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)

Intensity [cd] 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)  
/ C-Plane measurement

G/C [cd]	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00
163.00	34.6	35.3	45.2	54.4	54.4	19.8	3.4	51.7	72.6
164.00	34.2	35.1	46.1	55.1	50.3	19.5	3.4	49.9	69.9
165.00	34.2	35.1	47.0	55.7	43.1	19.3	3.4	47.2	67.9
166.00	33.9	34.8	47.9	56.6	36.6	19.1	3.4	44.3	66.3
167.00	33.9	34.6	49.0	57.5	30.3	19.1	3.4	40.7	64.9
168.00	33.9	34.4	50.1	53.5	25.8	18.9	3.4	36.9	64.0
169.00	33.9	34.4	51.2	44.3	23.8	18.7	3.4	33.3	62.7
170.00	33.7	34.4	50.6	34.2	22.5	18.4	3.4	29.2	61.1
171.00	33.7	33.9	41.1	26.3	21.3	18.0	3.4	25.2	59.1
172.00	29.2	26.7	31.2	23.1	20.7	17.3	3.4	20.9	55.5
173.00	21.3	19.3	22.9	21.3	20.2	16.4	3.4	16.6	48.8
174.00	15.3	15.1	20.4	20.2	19.5	15.1	3.4	12.4	40.4
175.00	13.3	13.9	18.9	19.5	18.7	13.3	3.4	8.3	31.9
176.00	12.4	13.5	18.2	18.7	17.3	10.8	3.4	6.1	24.0
177.00	11.5	12.8	17.1	16.9	15.1	7.9	3.4	4.5	14.6
178.00	9.9	11.2	14.6	13.0	11.0	5.2	3.4	4.0	7.2
179.00	7.4	6.3	8.3	5.8	5.8	3.8	3.4	3.8	4.0
180.00	2.5	2.7	3.1	3.6	3.8	3.8	3.1	3.8	3.8

G/C [cd]	135.00	150.00	165.00	180.00	195.00	210.00	225.00	240.00	255.00
0.00	633.7	636.1	637.0	632.5	630.5	635.0	633.4	633.7	633.4
1.00	638.1	638.4	637.0	637.2	635.5	637.9	634.8	637.9	636.8
2.00	637.9	638.4	642.0	637.0	635.7	639.0	639.3	638.4	634.6
3.00	641.3	642.0	644.0	639.9	637.5	639.0	640.6	637.2	636.6
4.00	639.7	644.4	643.5	644.4	641.7	643.1	641.5	639.5	633.7
5.00	640.8	642.9	645.6	645.8	641.1	641.7	639.9	639.7	634.1
6.00	640.8	647.1	646.5	645.3	642.6	643.1	642.2	639.0	634.8
7.00	641.5	645.1	647.6	648.9	646.9	646.0	641.3	636.8	633.7
8.00	642.2	647.8	649.2	650.3	645.1	646.7	642.9	637.9	632.5
9.00	643.8	648.9	651.6	648.3	648.3	644.4	640.4	634.3	630.5
10.00	640.8	646.2	651.6	648.3	646.5	647.1	642.0	635.2	627.6
11.00	642.0	645.8	651.9	649.2	646.7	645.8	641.1	631.4	625.8
12.00	638.6	647.8	649.4	649.2	648.7	646.0	640.2	628.7	620.4
13.00	636.6	644.9	649.4	648.7	646.5	642.2	636.4	629.4	617.9
14.00	637.2	646.2	648.0	648.9	645.3	644.4	634.3	624.7	616.6
15.00	633.0	645.1	650.3	650.7	647.1	640.4	632.5	624.0	610.7
16.00	633.4	641.5	649.8	647.4	644.7	641.1	630.1	618.4	606.9
17.00	628.9	640.2	646.7	649.6	643.1	637.5	627.6	617.3	602.9
18.00	628.3	640.6	647.6	648.7	645.1	635.7	627.4	613.9	600.8
19.00	623.8	636.4	646.9	647.8	641.3	635.9	622.0	607.4	593.2
20.00	622.6	637.2	642.6	645.1	642.2	631.4	621.3	603.5	591.0
21.00	619.0	632.3	641.7	645.6	638.6	631.6	615.7	601.3	583.5
22.00	615.9	629.8	642.9	642.4	639.5	627.4	613.0	596.6	581.1

## LEDVANCE Lighting Co.Ltd.

# 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)

Intensity [cd] 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)  
/ C-Plane measurement

G/C [cd]	135.00	150.00	165.00	180.00	195.00	210.00	225.00	240.00	255.00
23.00	612.3	630.3	640.6	641.3	637.9	624.9	608.5	591.9	572.1
24.00	606.7	627.6	639.0	642.2	634.3	624.2	605.6	583.8	566.5
25.00	604.2	623.5	637.7	641.1	633.0	622.2	600.8	581.3	560.6
26.00	598.4	622.4	635.5	637.0	632.8	616.4	599.3	572.8	555.7
27.00	593.7	619.7	631.4	634.8	631.2	613.9	592.8	569.8	548.0
28.00	592.1	614.1	632.1	636.1	627.4	612.1	588.5	562.9	542.4
29.00	586.7	613.4	626.9	633.7	627.1	609.2	584.4	557.7	535.7
30.00	582.6	609.6	627.4	629.4	625.1	604.2	579.3	552.5	528.5
31.00	576.1	604.2	622.0	627.4	619.7	603.8	575.9	543.5	519.1
32.00	570.7	600.6	622.2	627.6	619.7	598.2	569.6	539.5	513.2
33.00	568.0	600.2	617.0	624.9	614.1	592.5	567.1	531.9	504.7
34.00	560.9	594.3	616.6	622.4	614.3	591.2	560.0	525.3	496.6
35.00	557.0	589.4	611.2	620.2	609.2	585.1	555.9	517.9	489.6
36.00	552.3	585.6	610.3	617.0	606.2	580.8	549.6	511.2	480.4
37.00	544.0	581.3	604.7	613.7	605.6	579.3	545.1	504.2	473.4
38.00	540.6	579.5	604.0	611.2	601.7	572.8	536.6	496.8	463.8
39.00	532.8	575.0	599.9	608.3	595.9	569.8	531.9	489.8	455.5
40.00	528.3	570.3	596.8	602.4	594.6	563.1	526.2	481.5	446.9
41.00	522.2	562.9	590.5	598.8	588.5	560.9	521.1	474.1	438.2
42.00	514.6	559.1	588.9	597.7	584.9	556.8	513.2	467.4	429.6
43.00	510.1	555.0	582.4	593.7	582.9	550.1	508.5	458.8	421.3
44.00	503.3	548.9	578.4	587.4	578.4	544.7	502.4	451.2	411.7
45.00	497.7	543.8	576.1	583.1	571.6	541.3	495.9	444.5	403.8
46.00	489.6	538.4	569.2	579.7	569.8	536.1	488.7	435.5	394.8
47.00	483.8	533.4	567.1	575.0	563.3	529.2	482.2	428.5	385.1
48.00	476.8	529.6	560.0	570.5	558.4	524.7	476.8	420.2	375.5
49.00	471.4	523.1	558.2	565.6	555.9	519.7	469.4	411.0	367.2
50.00	464.2	517.7	551.0	564.2	549.4	513.2	463.3	404.2	357.3
51.00	457.9	512.1	547.8	559.3	544.9	508.0	455.7	395.7	348.7
52.00	450.7	506.5	541.8	552.5	540.9	502.9	449.4	387.4	339.1
53.00	444.5	501.5	537.0	547.4	535.2	496.8	442.2	379.3	330.5
54.00	436.8	493.4	530.7	543.5	531.2	490.7	435.9	372.3	320.2
55.00	431.2	489.2	527.1	537.7	524.7	485.1	429.9	363.8	311.0
56.00	423.1	482.9	521.1	533.7	520.2	478.6	422.0	355.3	301.8
57.00	417.0	477.9	515.5	528.0	515.2	472.8	416.4	348.5	293.5
58.00	410.1	471.9	510.7	522.0	508.0	467.2	408.5	339.7	283.6
59.00	404.0	465.1	504.9	516.4	503.3	460.9	402.9	332.6	275.0
60.00	397.0	460.4	499.7	511.9	498.2	455.9	395.0	324.7	265.1
61.00	389.4	454.1	493.0	506.7	491.6	449.4	389.0	316.4	256.4
62.00	383.6	447.8	487.6	500.4	486.7	442.4	381.8	309.6	248.1
63.00	376.1	442.2	482.7	495.9	481.1	437.9	376.1	301.3	238.2
64.00	370.1	436.1	477.9	490.3	475.9	431.0	368.7	293.7	229.9
65.00	363.3	430.3	471.2	484.9	469.8	424.5	363.3	287.2	221.1

## LEDVANCE Lighting Co.Ltd.

# 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)

Intensity [cd] 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)  
/ C-Plane measurement

G/C [cd]	135.00	150.00	165.00	180.00	195.00	210.00	225.00	240.00	255.00
66.00	357.7	425.1	466.5	478.8	465.1	420.0	356.4	279.1	212.8
67.00	351.0	418.6	460.2	474.3	458.8	414.3	349.2	272.6	203.4
68.00	344.9	412.1	454.8	467.6	453.0	407.6	343.3	265.8	195.7
69.00	338.4	407.4	449.6	462.0	448.3	401.8	337.9	258.4	187.6
70.00	331.7	401.1	444.5	456.6	441.3	396.8	330.8	251.7	179.1
71.00	326.0	395.0	437.9	452.5	436.8	390.5	325.6	245.1	170.5
72.00	320.0	389.2	433.7	446.7	431.4	385.6	318.8	239.1	163.1
73.00	314.8	384.5	427.4	440.6	424.9	380.2	313.7	232.6	155.3
74.00	308.7	378.8	421.8	436.4	421.1	374.1	307.6	226.0	148.1
75.00	304.0	373.2	417.0	429.6	415.5	369.2	302.7	220.4	140.7
76.00	297.5	368.1	411.9	424.5	409.2	363.8	296.8	214.6	133.9
77.00	292.3	362.9	405.6	419.5	404.7	357.3	291.2	208.7	127.2
78.00	287.4	357.3	400.6	414.3	398.6	352.8	286.7	203.8	120.9
79.00	282.0	352.1	396.1	408.3	394.1	348.1	281.1	198.0	114.8
80.00	277.5	346.9	390.5	404.5	388.1	342.2	276.2	193.5	108.3
81.00	272.6	342.7	384.9	398.6	383.6	337.1	271.0	188.1	102.9
82.00	267.2	336.8	380.6	392.6	377.5	332.8	266.3	183.1	97.5
83.00	263.3	331.7	374.6	388.3	372.6	327.2	262.0	179.1	92.8
84.00	258.2	327.4	370.5	382.4	368.3	323.3	257.3	175.3	87.9
85.00	254.6	322.0	364.5	377.3	362.2	318.4	252.6	171.0	84.0
86.00	249.9	317.3	359.5	371.9	357.9	313.0	248.3	167.2	80.2
87.00	245.1	313.2	354.6	367.2	352.3	309.0	244.5	162.9	76.6
88.00	241.6	308.3	349.6	362.2	348.1	303.8	239.8	159.3	73.5
89.00	237.3	303.8	344.9	357.3	342.7	299.3	236.2	156.4	70.8
90.00	233.7	299.7	340.4	351.2	337.3	295.0	232.1	152.8	68.3
91.00	229.4	295.3	335.3	347.2	333.5	290.8	228.5	149.9	66.1
92.00	226.3	291.0	331.0	342.0	327.8	286.0	224.9	147.0	64.3
93.00	222.2	286.0	325.6	336.6	323.3	282.0	221.1	144.5	62.7
94.00	218.6	281.3	320.6	331.7	318.6	278.2	218.0	141.8	61.3
95.00	215.7	278.4	316.6	327.8	313.9	273.9	214.1	139.3	60.2
96.00	212.3	273.7	311.7	322.2	309.6	270.5	211.4	137.1	59.5
97.00	209.2	270.1	307.4	317.7	304.7	265.8	207.8	135.0	58.6
98.00	205.6	266.3	302.9	313.7	300.9	261.6	204.9	133.0	58.2
99.00	202.9	261.8	297.7	308.3	296.4	258.4	201.6	130.8	58.0
100.00	199.8	258.4	293.9	303.8	291.7	253.9	198.9	129.4	57.5
101.00	197.1	254.4	289.4	300.2	286.9	251.0	195.9	127.6	57.7
102.00	194.6	251.2	285.4	294.8	283.1	247.2	193.7	125.8	57.7
103.00	191.7	247.2	281.5	290.5	279.5	243.4	190.3	124.7	57.5
104.00	189.0	243.6	277.1	286.7	275.0	240.0	188.3	123.1	58.0
105.00	186.7	240.0	273.5	282.0	270.5	236.6	185.4	121.8	58.2
106.00	184.3	236.6	268.7	277.5	266.7	233.2	182.9	120.4	58.6
107.00	181.6	233.0	264.9	273.7	262.9	229.6	180.9	119.5	58.9
108.00	179.1	230.3	260.9	269.4	259.1	226.7	178.4	118.4	59.3



## LEDVANCE Lighting Co.Ltd.

# 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)

Intensity [cd] 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)  
/ C-Plane measurement

G/C [cd]	135.00	150.00	165.00	180.00	195.00	210.00	225.00	240.00	255.00
109.00	177.3	226.7	256.8	265.8	255.5	223.4	175.9	117.5	59.8
110.00	174.8	223.4	253.7	261.6	251.0	220.0	173.7	116.8	60.2
111.00	172.3	220.4	249.6	257.5	247.8	216.8	171.9	115.7	60.4
112.00	170.8	217.5	245.6	253.2	244.2	213.9	169.4	114.8	59.3
113.00	168.7	214.6	242.7	249.4	240.2	211.0	167.6	114.1	57.7
114.00	166.7	211.2	238.6	246.3	237.3	208.5	166.1	113.5	56.6
115.00	164.9	208.3	235.0	242.5	233.7	205.4	164.0	113.0	55.7
116.00	162.9	205.4	231.9	238.4	229.9	202.7	161.8	112.4	55.3
117.00	161.3	202.5	228.5	235.0	226.9	200.2	160.0	111.7	55.3
118.00	159.5	200.2	225.1	231.7	223.1	196.8	158.4	111.0	55.3
119.00	157.3	197.3	221.6	228.1	219.8	194.8	157.1	110.8	55.7
120.00	156.2	194.4	218.6	224.3	217.1	191.9	155.0	110.1	56.0
121.00	154.6	192.3	215.0	221.6	213.5	189.2	153.7	109.7	56.6
122.00	152.8	189.4	212.3	218.0	210.3	187.0	152.1	109.4	56.8
123.00	151.0	187.0	209.0	214.6	207.6	184.3	150.3	109.0	57.5
124.00	149.9	184.7	205.8	211.2	204.3	182.2	149.0	108.8	58.0
125.00	148.3	182.2	202.9	208.1	201.3	179.5	147.4	107.9	58.4
126.00	147.2	180.0	200.0	205.4	198.6	177.3	146.1	106.5	58.9
127.00	145.4	177.5	197.5	202.2	195.7	175.3	144.5	104.7	59.5
128.00	143.8	175.5	194.1	198.9	192.8	172.8	143.6	102.2	60.0
129.00	142.7	173.0	191.9	195.9	190.1	170.8	142.0	99.5	60.4
130.00	141.3	170.8	189.0	193.5	187.2	168.7	140.4	98.0	60.7
131.00	140.2	168.5	186.1	190.5	184.9	166.3	139.3	96.4	61.1
132.00	138.9	166.5	183.6	187.2	181.8	164.3	138.2	95.0	61.3
133.00	137.7	164.0	180.9	184.9	179.8	162.5	136.6	93.9	61.3
134.00	136.2	162.2	178.0	181.8	176.6	160.2	135.5	92.6	61.3
135.00	134.1	160.4	175.5	179.3	174.1	158.2	133.7	91.7	61.3
136.00	131.2	158.2	172.8	176.4	171.7	156.2	131.4	90.8	61.6
137.00	127.6	156.4	170.5	173.7	169.0	154.1	128.1	89.9	61.6
138.00	123.4	153.9	167.9	171.0	167.0	152.6	124.3	89.0	61.6
139.00	119.8	152.1	165.8	168.7	164.3	150.3	120.0	88.5	61.8
140.00	116.6	150.3	162.9	165.8	162.0	148.1	117.1	87.6	61.8
141.00	113.9	147.4	160.7	163.4	159.5	145.4	114.1	87.0	61.8
142.00	111.9	143.8	158.2	160.7	157.1	141.3	111.7	86.5	61.8
143.00	110.1	138.6	155.7	158.0	154.6	136.2	109.9	86.1	61.8
144.00	108.1	133.9	152.6	155.7	151.7	131.2	108.1	85.4	62.0
145.00	106.3	129.0	147.9	151.9	147.0	126.7	106.1	84.9	62.2
146.00	104.3	124.7	142.7	146.7	141.8	122.9	104.3	84.5	62.5
147.00	102.9	121.6	136.2	140.4	135.7	119.5	102.9	84.0	62.5
148.00	101.3	118.9	131.2	134.8	130.6	116.8	101.1	83.6	62.5
149.00	100.0	116.4	127.0	129.9	126.1	114.1	100.0	83.4	61.1
150.00	98.6	113.5	123.1	125.4	122.2	111.7	98.2	82.7	59.5
151.00	97.1	111.2	119.8	121.6	119.1	109.4	97.1	82.2	58.0

# LEDVANCE Lighting Co.Ltd.

## 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)

Intensity [cd] 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)  
/ C-Plane measurement

G/C [cd]	135.00	150.00	165.00	180.00	195.00	210.00	225.00	240.00	255.00
152.00	95.7	109.2	117.1	118.6	115.9	107.2	95.7	82.0	57.1
153.00	94.8	107.0	114.1	115.5	113.0	105.2	94.6	81.6	56.4
154.00	93.5	104.9	111.9	112.6	110.3	103.4	93.3	81.3	56.4
155.00	92.4	103.1	109.2	109.0	107.9	101.6	92.1	80.9	56.2
156.00	91.2	101.3	106.7	105.4	105.8	99.8	91.0	80.4	56.2
157.00	90.1	99.5	104.7	100.2	103.6	98.0	89.9	80.0	55.7
158.00	89.2	97.7	102.2	83.4	101.1	96.4	89.0	79.8	56.0
159.00	88.1	96.2	100.2	64.3	99.5	94.6	88.1	79.1	55.5
160.00	87.4	94.8	98.2	50.6	97.3	93.0	87.0	78.9	55.3
161.00	86.3	93.0	96.2	49.0	95.5	91.9	86.1	78.2	55.1
162.00	85.4	91.5	94.6	47.9	93.5	90.1	84.9	76.2	54.4
163.00	84.3	90.3	92.6	46.7	91.9	88.8	84.3	72.6	53.9
164.00	83.4	89.0	90.6	46.1	90.1	87.4	83.1	69.7	52.8
165.00	82.7	87.4	88.8	45.2	87.6	86.1	82.5	67.9	51.0
166.00	81.6	86.1	86.7	44.3	85.4	84.9	81.6	66.5	48.1
167.00	78.6	84.9	84.0	43.6	82.7	83.8	79.8	65.2	44.9
168.00	73.7	83.6	81.6	42.7	80.2	82.5	74.6	64.0	41.1
169.00	70.6	82.2	79.1	42.0	77.3	80.9	71.0	62.5	37.1
170.00	68.5	77.1	76.4	41.1	74.6	74.2	68.5	60.7	33.0
171.00	67.0	71.9	70.1	37.5	68.3	70.1	67.2	58.6	28.8
172.00	65.2	69.0	64.3	35.3	62.9	67.2	65.4	53.9	24.5
173.00	62.2	66.5	60.9	33.7	59.5	64.9	62.7	46.7	20.0
174.00	58.4	63.6	58.0	32.4	56.4	61.3	58.9	38.4	14.8
175.00	48.8	59.8	54.2	30.3	52.4	56.0	50.1	29.7	10.1
176.00	36.6	51.0	47.6	25.6	45.8	44.0	38.4	20.7	7.2
177.00	24.3	36.9	34.2	17.5	32.8	29.7	25.6	11.7	5.2
178.00	11.9	22.0	20.4	8.8	18.4	14.2	12.4	5.8	4.0
179.00	4.5	7.4	6.5	2.5	5.4	4.0	4.5	3.8	3.8
180.00	3.6	3.4	2.9	2.5	2.7	3.1	3.6	3.8	3.8

G/C [cd]	270.00	285.00	300.00	315.00	330.00	345.00
0.00	634.1	633.0	632.3	633.7	636.1	637.0
1.00	633.7	631.6	633.4	633.9	631.2	634.8
2.00	630.5	633.2	629.2	630.3	631.9	630.3
3.00	629.8	631.6	629.8	629.8	627.4	630.3
4.00	631.4	627.8	628.0	628.3	627.1	625.6
5.00	629.2	628.3	623.8	624.0	624.7	625.6
6.00	627.1	623.8	623.3	621.1	619.3	619.7
7.00	622.6	623.5	618.2	620.4	616.1	619.5
8.00	622.9	618.4	615.2	617.3	615.0	613.9
9.00	620.6	617.5	611.4	611.2	609.2	610.3
10.00	617.7	611.9	608.5	610.1	608.9	609.6
11.00	611.9	608.5	606.5	605.6	604.9	602.6

## LEDVANCE Lighting Co.Ltd.

# 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)

Intensity [cd] 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)  
/ C-Plane measurement

G/C [cd]	270.00	285.00	300.00	315.00	330.00	345.00
12.00	609.8	604.7	602.0	600.6	597.9	601.3
13.00	604.4	600.6	598.6	598.2	595.9	593.9
14.00	599.9	598.4	593.7	591.6	591.0	592.5
15.00	598.2	591.6	587.1	588.9	584.2	585.3
16.00	591.2	587.1	581.7	581.7	581.7	580.8
17.00	586.5	581.3	577.5	576.8	574.8	579.1
18.00	582.6	578.4	571.9	571.0	571.9	573.2
19.00	575.5	570.1	567.1	568.0	566.7	569.6
20.00	571.6	567.4	562.2	560.4	561.3	562.4
21.00	563.8	559.1	553.4	555.9	554.8	559.3
22.00	560.0	552.5	549.6	550.3	550.1	553.7
23.00	551.0	547.6	543.1	542.4	543.5	548.0
24.00	546.5	540.0	534.6	537.5	540.6	545.8
25.00	538.2	534.1	528.7	531.9	532.8	540.6
26.00	531.4	525.8	523.3	525.1	529.6	533.4
27.00	525.3	518.8	515.7	519.5	522.7	529.8
28.00	515.9	511.9	507.8	512.1	518.8	524.2
29.00	509.8	504.2	499.7	507.1	512.3	520.4
30.00	502.7	497.0	493.7	500.9	506.9	513.7
31.00	492.5	489.8	485.6	493.4	502.0	510.7
32.00	485.8	480.9	478.6	487.6	495.0	504.7
33.00	477.5	473.0	471.6	480.4	490.1	500.2
34.00	470.7	465.6	462.9	474.1	484.5	496.4
35.00	461.1	456.4	456.6	468.1	479.1	490.7
36.00	451.9	448.1	448.5	461.5	473.0	487.4
37.00	443.6	439.5	440.6	455.7	467.6	482.0
38.00	435.5	431.6	433.0	447.6	462.4	476.6
39.00	427.2	422.4	425.4	441.3	457.7	472.5
40.00	417.0	414.3	417.7	435.0	451.2	466.9
41.00	408.5	405.1	409.2	428.7	445.4	462.9
42.00	398.8	396.8	402.4	421.8	440.9	458.6
43.00	390.5	386.7	394.3	415.9	434.8	453.7
44.00	380.6	378.4	386.0	408.7	429.9	448.7
45.00	371.7	369.2	377.9	403.6	424.5	443.3
46.00	362.4	360.6	370.8	396.6	419.7	439.3
47.00	351.9	351.4	363.1	390.1	414.1	433.2
48.00	342.7	342.0	355.7	383.3	407.4	428.7
49.00	333.5	333.5	348.1	377.5	402.7	424.2
50.00	324.5	324.2	340.0	370.5	397.5	420.0
51.00	314.1	315.9	333.0	365.1	391.4	414.3
52.00	305.1	306.3	325.1	358.2	386.9	410.1
53.00	295.3	298.4	317.7	352.8	381.5	404.5
54.00	285.8	289.0	310.8	346.3	375.7	399.3

## LEDVANCE Lighting Co.Ltd.

# 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)

Intensity [cd] 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)  
/ C-Plane measurement

G/C [cd]	270.00	285.00	300.00	315.00	330.00	345.00
55.00	276.4	280.0	303.3	340.0	370.1	395.2
56.00	266.3	271.2	295.7	333.7	364.9	389.6
57.00	256.4	263.1	288.5	327.6	359.1	385.4
58.00	247.2	253.2	282.0	321.5	354.6	380.6
59.00	238.2	245.1	274.1	316.2	348.5	375.5
60.00	228.3	236.4	267.8	309.2	344.2	370.1
61.00	218.2	228.1	260.4	303.8	338.4	365.6
62.00	209.6	220.0	254.1	298.6	333.5	360.6
63.00	200.0	211.0	246.7	291.9	328.7	355.0
64.00	190.1	202.9	240.7	286.7	322.7	350.1
65.00	181.3	194.8	234.1	280.9	317.5	345.6
66.00	172.3	186.7	227.2	275.7	313.2	341.3
67.00	162.9	178.4	221.6	269.6	307.8	335.9
68.00	153.7	170.5	214.8	265.4	303.1	331.7
69.00	144.5	163.1	209.0	259.3	297.3	326.3
70.00	135.9	155.5	202.7	253.7	293.0	321.5
71.00	126.5	147.9	196.4	248.7	287.4	315.9
72.00	118.0	140.4	191.4	243.1	283.3	311.9
73.00	109.0	133.5	185.2	238.4	278.2	306.7
74.00	101.1	126.7	179.5	233.7	273.2	302.4
75.00	92.6	120.0	174.4	228.3	268.7	297.7
76.00	84.0	113.5	168.7	223.8	264.0	293.2
77.00	76.4	106.7	164.0	219.1	259.1	289.0
78.00	68.3	100.9	158.9	214.1	254.8	283.6
79.00	60.7	94.8	153.7	209.6	250.8	279.8
80.00	53.3	89.2	149.4	205.4	246.5	274.4
81.00	45.8	83.6	144.9	200.4	241.6	270.3
82.00	39.1	78.9	139.8	196.8	237.1	265.6
83.00	32.4	73.7	135.9	192.1	233.2	261.8
84.00	26.3	69.2	131.7	188.3	229.0	256.6
85.00	20.2	64.9	127.4	184.3	225.1	253.0
86.00	15.3	61.1	123.8	180.0	220.7	249.0
87.00	10.3	57.5	120.4	176.4	216.8	244.2
88.00	6.7	53.9	116.6	172.1	212.8	240.4
89.00	4.3	50.8	112.8	168.5	208.7	235.9
90.00	3.1	48.1	109.9	164.7	204.9	232.6
91.00	3.1	45.6	106.7	161.6	201.1	228.1
92.00	3.1	43.4	103.6	158.4	197.7	224.5
93.00	3.1	41.6	100.9	155.0	194.1	220.2
94.00	2.9	39.8	98.0	151.7	190.1	216.6
95.00	2.9	38.4	95.7	148.3	187.0	213.0
96.00	2.9	37.3	93.0	145.2	183.6	209.2
97.00	2.9	36.0	90.8	142.5	180.2	205.8

## LEDVANCE Lighting Co.Ltd.

# 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)

Intensity [cd] 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)  
/ C-Plane measurement

G/C [cd]	270.00	285.00	300.00	315.00	330.00	345.00
98.00	2.9	35.3	88.8	139.5	176.4	202.0
99.00	3.1	34.4	86.5	136.6	173.7	198.6
100.00	3.1	33.9	84.7	133.5	170.1	195.0
101.00	3.1	33.5	82.7	131.0	167.4	191.4
102.00	3.4	33.3	80.7	128.5	164.0	188.3
103.00	3.4	33.3	79.3	125.6	161.1	185.4
104.00	3.4	33.3	77.7	123.4	158.2	181.6
105.00	3.4	33.5	76.4	121.1	155.0	178.6
106.00	3.4	33.5	74.8	118.6	152.1	175.5
107.00	3.4	33.7	73.9	116.4	149.7	172.6
108.00	3.4	33.9	72.6	114.4	146.7	169.0
109.00	3.4	33.7	71.5	112.1	144.0	166.3
110.00	3.1	33.3	70.8	110.3	141.8	163.4
111.00	3.1	32.6	69.4	108.3	139.1	160.2
112.00	3.1	30.8	67.4	106.5	136.8	157.5
113.00	3.1	29.0	65.2	104.5	133.9	154.8
114.00	3.1	28.1	62.7	102.9	131.4	151.9
115.00	3.1	27.6	60.7	100.4	129.4	149.4
116.00	3.1	27.0	59.1	96.6	127.0	146.5
117.00	3.1	26.3	57.5	93.0	124.9	143.8
118.00	3.1	25.6	56.4	89.2	122.9	141.3
119.00	3.1	25.8	55.1	86.1	120.7	138.9
120.00	3.1	26.1	53.9	83.4	118.9	136.4
121.00	3.1	25.8	52.8	80.7	115.9	134.1
122.00	3.1	26.3	51.7	78.0	111.7	131.9
123.00	3.1	26.5	50.6	75.9	107.2	129.4
124.00	3.1	26.7	49.4	73.7	103.1	127.4
125.00	3.1	27.4	48.1	71.7	99.1	124.9
126.00	3.1	28.1	47.0	69.7	95.5	123.1
127.00	3.1	28.5	45.2	67.9	92.6	120.7
128.00	3.1	29.0	42.9	66.1	89.2	118.9
129.00	3.1	29.2	41.3	64.5	86.5	116.6
130.00	3.1	29.2	39.3	62.9	83.6	114.8
131.00	3.1	29.4	37.3	61.3	80.9	112.8
132.00	3.1	29.9	36.2	59.8	78.6	111.2
133.00	3.1	30.3	35.7	58.0	76.4	108.5
134.00	3.1	30.3	35.5	56.2	73.9	105.6
135.00	3.1	30.8	34.8	54.6	71.7	101.3
136.00	3.4	31.5	33.9	53.0	69.7	97.1
137.00	3.1	32.6	33.9	50.6	67.4	92.8
138.00	3.4	33.3	34.6	47.2	65.4	89.2
139.00	3.4	33.9	35.3	45.4	62.9	85.8
140.00	3.4	34.8	36.4	43.6	60.4	82.5

## LEDVANCE Lighting Co.Ltd.

# 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)

Intensity [cd] 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)  
/ C-Plane measurement

G/C [cd]	270.00	285.00	300.00	315.00	330.00	345.00
141.00	3.4	35.7	37.3	42.0	58.6	78.9
142.00	3.4	36.6	38.0	40.0	56.0	75.3
143.00	3.4	37.5	39.1	38.2	52.6	71.9
144.00	3.4	38.6	39.5	38.4	49.4	69.0
145.00	3.4	39.8	40.2	39.3	46.5	65.4
146.00	3.4	40.9	41.6	39.8	43.8	61.3
147.00	3.4	42.0	42.9	39.1	41.3	56.4
148.00	3.4	42.0	43.8	38.2	39.8	52.6
149.00	3.4	41.1	44.3	38.4	38.0	48.8
150.00	3.4	38.6	45.6	39.5	36.0	45.4
151.00	3.4	36.0	46.7	40.2	35.7	42.7
152.00	3.4	33.5	47.6	40.9	34.6	40.0
153.00	3.4	30.6	48.5	41.6	33.3	36.6
154.00	3.4	27.9	49.7	42.2	33.5	34.2
155.00	3.4	25.4	50.3	43.1	33.5	32.6
156.00	3.4	23.4	50.6	44.3	33.7	32.1
157.00	3.4	22.5	50.8	44.9	35.3	31.9
158.00	3.4	21.8	51.2	46.1	36.9	31.7
159.00	3.4	21.3	51.9	47.4	38.0	30.3
160.00	3.4	20.7	52.8	49.0	38.6	30.1
161.00	3.4	20.4	53.9	51.2	38.4	29.7
162.00	3.4	20.0	54.4	52.6	39.3	29.4
163.00	3.4	20.0	50.6	53.5	41.8	29.2
164.00	3.4	19.8	44.3	53.9	43.4	29.4
165.00	3.4	19.8	38.0	55.1	45.2	29.7
166.00	3.4	19.5	31.7	56.2	46.7	29.9
167.00	3.4	19.5	26.5	57.1	48.8	29.2
168.00	3.4	19.3	24.3	51.9	50.3	29.2
169.00	3.4	19.1	22.9	42.5	52.1	30.3
170.00	3.4	18.7	21.8	32.6	46.5	33.0
171.00	3.4	18.2	21.1	25.8	35.3	30.1
172.00	3.4	17.5	20.7	23.1	25.4	23.1
173.00	3.4	16.4	20.2	21.3	21.8	16.2
174.00	3.4	15.1	19.8	20.4	20.0	14.2
175.00	3.4	13.3	18.4	19.8	18.9	13.9
176.00	3.4	10.6	16.9	19.1	18.0	13.9
177.00	3.4	7.6	14.2	16.9	16.4	13.5
178.00	3.4	5.2	8.5	13.0	12.8	11.5
179.00	3.4	3.8	4.0	5.6	4.5	4.9
180.00	3.1	3.8	3.8	3.6	3.4	2.9

# LEDVANCE Lighting Co.Ltd.

## PHOTOMETRIC RESULTS

<b>Program:</b>	T8/T5 C15 G5 180		
<b>Name:</b>	2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)		
<b>Meas.-no.:</b>	1		
<b>Flux:</b>	3002.89 lm		<b>Operator:</b> Thomas.liu
<b>Comment:</b>	UI=230.05V II=0.1097A WI=24.21W PF=0.9592		
<b>Maximum intensity:</b>	651.855 cd		

Zonal flux 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling) / C-Plane measurement

Gamma [°]	Imin [cd/klm]	Imax [cd/klm]	Imean [cd/klm]	Zonal flux [lm]	Sum. zonal flux [lm]	Rel. zonal flux [%]	Sum. rel. zonal flux [%]
0.0	210.0	212.1	211.0	0.00	0.00	0.00	0.00
1.0	209.3	212.6	211.3	0.61	0.61	0.02	0.02
2.0	209.2	213.8	211.1	1.82	2.43	0.06	0.08
3.0	208.6	214.5	211.2	3.03	5.46	0.10	0.18
4.0	207.6	214.6	210.8	4.24	9.70	0.14	0.32
5.0	206.7	215.1	210.6	5.44	15.15	0.18	0.50
6.0	206.1	215.5	210.1	6.64	21.79	0.22	0.73
7.0	204.4	216.1	209.8	7.83	29.61	0.26	0.99
8.0	203.2	216.6	209.2	9.01	38.62	0.30	1.29
9.0	202.9	217.0	208.7	10.17	48.79	0.34	1.62
10.0	200.8	217.0	207.9	11.32	60.11	0.38	2.00
11.0	199.9	217.1	207.1	12.45	72.56	0.41	2.42
12.0	198.8	216.3	206.2	13.57	86.13	0.45	2.87
13.0	197.1	216.3	205.2	14.66	100.79	0.49	3.36
14.0	195.3	216.1	204.2	15.74	116.53	0.52	3.88
15.0	194.6	216.7	203.2	16.80	133.32	0.56	4.44
16.0	192.9	216.4	201.8	17.82	151.15	0.59	5.03
17.0	191.4	216.3	200.6	18.82	169.97	0.63	5.66
18.0	189.4	216.0	199.5	19.81	189.78	0.66	6.32
19.0	188.6	215.7	198.0	20.77	210.55	0.69	7.01
20.0	186.6	214.8	196.8	21.70	232.25	0.72	7.73
21.0	184.3	215.0	195.2	22.60	254.85	0.75	8.49
22.0	183.0	214.1	193.8	23.47	278.32	0.78	9.27
23.0	180.6	213.6	192.1	24.31	302.63	0.81	10.08
24.0	178.0	213.9	190.6	25.12	327.75	0.84	10.91
25.0	176.1	213.5	189.0	25.92	353.67	0.86	11.78
26.0	174.3	212.1	187.3	26.67	380.34	0.89	12.67
27.0	171.7	211.4	185.5	27.39	407.73	0.91	13.58
28.0	169.1	211.8	183.8	28.08	435.80	0.93	14.51
29.0	166.4	211.0	182.1	28.74	464.55	0.96	15.47

## LEDVANCE Lighting Co.Ltd.

# 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)

Zonal flux 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling) / C-Plane measurement

Gamma [°]	Imin [cd/klm]	Imax [cd/klm]	Imean [cd/klm]	Zonal flux [lm]	Sum. zonal flux [lm]	Rel. zonal flux [%]	Sum. rel. zonal flux [%]
30.0	164.4	209.6	180.3	29.38	493.93	0.98	16.45
31.0	161.7	208.9	178.2	29.96	523.88	1.00	17.45
32.0	159.4	209.0	176.4	30.50	554.39	1.02	18.46
33.0	157.1	208.1	174.5	31.04	585.43	1.03	19.50
34.0	154.1	207.3	172.6	31.55	616.98	1.05	20.55
35.0	152.0	206.5	170.5	32.00	648.98	1.07	21.61
36.0	149.2	205.5	168.5	32.42	681.40	1.08	22.69
37.0	146.4	204.4	166.5	32.81	714.21	1.09	23.78
38.0	143.7	203.5	164.5	33.18	747.39	1.10	24.89
39.0	140.7	202.6	162.4	33.51	780.90	1.12	26.00
40.0	138.0	200.6	160.2	33.79	814.69	1.13	27.13
41.0	134.9	199.4	158.0	34.03	848.72	1.13	28.26
42.0	132.1	199.0	156.0	34.26	882.99	1.14	29.40
43.0	128.8	197.7	153.8	34.47	917.45	1.15	30.55
44.0	126.0	195.6	151.6	34.61	952.06	1.15	31.70
45.0	122.9	194.2	149.4	34.73	986.80	1.16	32.86
46.0	120.1	193.1	147.2	34.83	1021.63	1.16	34.02
47.0	117.0	191.5	144.9	34.89	1056.52	1.16	35.18
48.0	113.9	190.0	142.6	34.90	1091.42	1.16	36.35
49.0	111.0	188.3	140.4	34.90	1126.32	1.16	37.51
50.0	108.0	187.9	138.2	34.89	1161.21	1.16	38.67
51.0	104.6	186.2	135.9	34.83	1196.04	1.16	39.83
52.0	101.6	184.0	133.7	34.74	1230.79	1.16	40.99
53.0	98.3	182.3	131.4	34.62	1265.41	1.15	42.14
54.0	95.2	181.0	129.1	34.47	1299.88	1.15	43.29
55.0	92.0	179.1	126.9	34.31	1334.19	1.14	44.43
56.0	88.7	177.7	124.5	34.11	1368.30	1.14	45.57
57.0	85.4	175.8	122.3	33.88	1402.18	1.13	46.69
58.0	82.3	173.8	120.0	33.64	1435.83	1.12	47.81
59.0	79.3	172.0	117.7	33.37	1469.20	1.11	48.93
60.0	76.0	170.5	115.5	33.08	1502.28	1.10	50.03
61.0	72.7	168.7	113.2	32.77	1535.05	1.09	51.12
62.0	69.8	166.6	111.0	32.44	1567.48	1.08	52.20
63.0	66.6	165.1	108.7	32.09	1599.58	1.07	53.27
64.0	63.3	163.3	106.5	31.72	1631.30	1.06	54.32
65.0	60.4	161.5	104.3	31.34	1662.63	1.04	55.37
66.0	57.4	159.5	102.2	30.94	1693.58	1.03	56.40
67.0	54.3	158.0	100.0	30.53	1724.11	1.02	57.42
68.0	51.2	155.7	97.9	30.10	1754.22	1.00	58.42



## LEDVANCE Lighting Co.Ltd.

# 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)

Zonal flux 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling) / C-Plane measurement

Gamma [°]	Imin [cd/klm]	Imax [cd/klm]	Imean [cd/klm]	Zonal flux [lm]	Sum. zonal flux [lm]	Rel. zonal flux [%]	Sum. rel. zonal flux [%]
69.0	48.1	153.8	95.7	29.66	1783.88	0.99	59.41
70.0	45.3	152.1	93.7	29.21	1813.09	0.97	60.38
71.0	42.1	150.7	91.6	28.75	1841.84	0.96	61.34
72.0	39.3	148.8	89.6	28.29	1870.14	0.94	62.28
73.0	36.3	146.7	87.5	27.82	1897.95	0.93	63.20
74.0	33.6	145.3	85.6	27.34	1925.29	0.91	64.11
75.0	30.8	143.1	83.7	26.87	1952.16	0.89	65.01
76.0	27.9	141.4	81.8	26.38	1978.54	0.88	65.89
77.0	25.2	139.7	79.9	25.89	2004.43	0.86	66.75
78.0	22.5	138.0	78.1	25.40	2029.83	0.85	67.60
79.0	20.1	136.0	76.3	24.92	2054.74	0.83	68.43
80.0	17.5	134.7	74.6	24.44	2079.18	0.81	69.24
81.0	15.1	132.7	72.9	23.95	2103.13	0.80	70.04
82.0	12.6	130.7	71.2	23.46	2126.58	0.78	70.82
83.0	10.6	129.3	69.6	22.99	2149.57	0.77	71.58
84.0	8.5	127.4	68.1	22.53	2172.10	0.75	72.33
85.0	6.5	125.6	66.6	22.07	2194.17	0.73	73.07
86.0	4.7	123.8	65.1	21.61	2215.78	0.72	73.79
87.0	3.2	122.3	63.7	21.17	2236.96	0.71	74.49
88.0	2.0	120.6	62.4	20.75	2257.70	0.69	75.18
89.0	1.3	119.0	61.1	20.33	2278.04	0.68	75.86
90.0	1.0	117.0	60.0	19.94	2297.98	0.66	76.53
91.0	1.0	115.6	58.9	19.57	2317.56	0.65	77.18
92.0	1.0	113.9	57.8	19.22	2336.77	0.64	77.82
93.0	1.0	112.1	56.8	18.86	2355.63	0.63	78.45
94.0	1.0	110.4	55.8	18.50	2374.13	0.62	79.06
95.0	1.0	109.2	54.9	18.16	2392.29	0.60	79.67
96.0	1.0	107.3	53.9	17.83	2410.12	0.59	80.26
97.0	1.0	105.8	53.0	17.50	2427.61	0.58	80.84
98.0	0.9	104.5	52.1	17.17	2444.78	0.57	81.41
99.0	0.9	102.7	51.3	16.84	2461.63	0.56	81.98
100.0	1.0	101.2	50.5	16.53	2478.15	0.55	82.53
101.0	1.0	100.0	49.7	16.22	2494.37	0.54	83.07
102.0	1.0	98.2	49.0	15.92	2510.29	0.53	83.60
103.0	1.1	96.8	48.2	15.62	2525.92	0.52	84.12
104.0	1.1	95.5	47.5	15.33	2541.25	0.51	84.63
105.0	1.1	93.9	46.8	15.04	2556.29	0.50	85.13
106.0	1.1	92.4	46.1	14.75	2571.04	0.49	85.62
107.0	1.1	91.1	45.5	14.47	2585.50	0.48	86.10

# LEDVANCE Lighting Co.Ltd.

## 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)

Zonal flux 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling) / C-Plane measurement

Gamma [°]	Imin [cd/klm]	Imax [cd/klm]	Imean [cd/klm]	Zonal flux [lm]	Sum. zonal flux [lm]	Rel. zonal flux [%]	Sum. rel. zonal flux [%]
108.0	1.1	89.7	44.9	14.19	2599.69	0.47	86.57
109.0	1.1	88.5	44.3	13.92	2613.61	0.46	87.04
110.0	1.0	87.1	43.6	13.64	2627.25	0.45	87.49
111.0	1.0	85.8	43.0	13.36	2640.61	0.44	87.94
112.0	1.0	84.3	42.3	13.06	2653.68	0.44	88.37
113.0	1.0	83.1	41.6	12.76	2666.44	0.42	88.80
114.0	1.0	82.0	40.9	12.46	2678.90	0.42	89.21
115.0	1.0	80.7	40.3	12.18	2691.08	0.41	89.62
116.0	1.0	79.4	39.7	11.89	2702.97	0.40	90.01
117.0	1.0	78.3	39.1	11.60	2714.57	0.39	90.40
118.0	1.0	77.1	38.5	11.32	2725.90	0.38	90.78
119.0	0.9	76.0	37.9	11.05	2736.95	0.37	91.14
120.0	0.9	74.7	37.4	10.79	2747.74	0.36	91.50
121.0	1.0	73.8	36.9	10.53	2758.27	0.35	91.85
122.0	0.9	72.6	36.3	10.27	2768.55	0.34	92.20
123.0	1.0	71.5	35.8	10.01	2778.55	0.33	92.53
124.0	1.0	70.3	35.2	9.75	2788.30	0.32	92.85
125.0	1.0	69.3	34.7	9.49	2797.79	0.32	93.17
126.0	1.0	68.4	34.2	9.23	2807.02	0.31	93.48
127.0	1.0	67.3	33.7	8.98	2816.00	0.30	93.78
128.0	1.0	66.2	33.1	8.72	2824.72	0.29	94.07
129.0	1.0	65.3	32.5	8.46	2833.18	0.28	94.35
130.0	1.0	64.4	32.0	8.20	2841.38	0.27	94.62
131.0	1.0	63.5	31.6	7.96	2849.34	0.27	94.89
132.0	1.0	62.3	31.1	7.73	2857.07	0.26	95.14
133.0	1.0	61.6	30.7	7.50	2864.57	0.25	95.39
134.0	1.0	60.5	30.2	7.27	2871.83	0.24	95.64
135.0	1.0	59.7	29.7	7.03	2878.87	0.23	95.87
136.0	1.0	58.7	29.2	6.80	2885.67	0.23	96.10
137.0	1.0	57.8	28.7	6.56	2892.23	0.22	96.31
138.0	1.0	56.9	28.2	6.32	2898.56	0.21	96.53
139.0	1.0	56.2	27.7	6.09	2904.65	0.20	96.73
140.0	1.0	55.2	27.2	5.87	2910.51	0.20	96.92
141.0	1.0	54.4	26.8	5.65	2916.16	0.19	97.11
142.0	1.0	53.5	26.3	5.44	2921.60	0.18	97.29
143.0	1.0	52.6	25.8	5.22	2926.82	0.17	97.47
144.0	1.0	51.9	25.3	5.00	2931.82	0.17	97.63
145.0	1.0	50.6	24.8	4.79	2936.61	0.16	97.79
146.0	1.0	48.9	24.2	4.57	2941.18	0.15	97.94

## LEDVANCE Lighting Co.Ltd.

# 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)

Zonal flux 2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling) / C-Plane measurement

Gamma [°]	Imin [cd/klm]	Imax [cd/klm]	Imean [cd/klm]	Zonal flux [lm]	Sum. zonal flux [lm]	Rel. zonal flux [%]	Sum. rel. zonal flux [%]
147.0	1.0	46.8	23.6	4.35	2945.53	0.14	98.09
148.0	1.0	44.9	23.1	4.13	2949.66	0.14	98.23
149.0	1.0	43.3	22.6	3.93	2953.59	0.13	98.36
150.0	1.1	41.8	22.1	3.73	2957.32	0.12	98.48
151.0	1.0	40.5	21.6	3.54	2960.86	0.12	98.60
152.0	1.1	39.5	21.2	3.37	2964.23	0.11	98.71
153.0	1.1	38.5	20.8	3.20	2967.43	0.11	98.82
154.0	1.1	37.5	20.5	3.04	2970.47	0.10	98.92
155.0	1.1	36.4	20.1	2.88	2973.35	0.10	99.02
156.0	1.1	35.5	19.9	2.73	2976.08	0.09	99.11
157.0	1.1	34.9	19.5	2.59	2978.67	0.09	99.19
158.0	1.1	34.0	19.1	2.44	2981.10	0.08	99.27
159.0	1.1	33.4	18.7	2.28	2983.39	0.08	99.35
160.0	1.1	32.7	18.4	2.14	2985.53	0.07	99.42
161.0	1.1	32.0	18.1	2.01	2987.53	0.07	99.49
162.0	1.1	31.5	17.9	1.88	2989.42	0.06	99.55
163.0	1.1	30.8	17.7	1.76	2991.18	0.06	99.61
164.0	1.1	30.2	17.3	1.64	2992.82	0.05	99.66
165.0	1.1	29.6	17.0	1.51	2994.33	0.05	99.71
166.0	1.1	28.9	16.6	1.38	2995.71	0.05	99.76
167.0	1.1	28.3	16.2	1.26	2996.97	0.04	99.80
168.0	1.1	27.8	15.6	1.13	2998.10	0.04	99.84
169.0	1.1	27.4	15.0	1.00	2999.11	0.03	99.87
170.0	1.1	25.7	14.1	0.87	2999.98	0.03	99.90
171.0	1.1	23.9	13.0	0.74	3000.72	0.02	99.93
172.0	1.1	23.0	11.8	0.60	3001.32	0.02	99.95
173.0	1.1	22.1	10.6	0.48	3001.80	0.02	99.96
174.0	1.1	21.2	9.7	0.38	3002.18	0.01	99.98
175.0	1.1	19.9	8.6	0.29	3002.47	0.01	99.99
176.0	1.1	17.0	7.3	0.20	3002.67	0.01	99.99
177.0	1.1	12.3	5.5	0.13	3002.80	0.00	100.00
178.0	1.1	7.3	3.5	0.06	3002.86	0.00	100.00
179.0	0.8	2.8	1.6	0.02	3002.89	0.00	100.00
180.0	0.8	1.3	1.1	0.00	3002.89	0.00	100.00

# LEDVANCE Lighting Co.Ltd.

## PHOTOMETRIC RESULTS

<b>Program:</b>	T8/T5 C15 G5 180		
<b>Name:</b>	2007821-Intensity LED T8 1.5m 24W/840 230V 50Hz-1#(huang,xiaoling)		
<b>Meas.-no.:</b>	1		
<b>Flux:</b>	3002.89 lm		<b>Operator:</b> Thomas.liu
<b>Comment:</b>	UI=230.05V II=0.1097A WI=24.21W PF=0.9592		
<b>Maximum intensity:</b>	651.855 cd		

## Protocol

<b>LiTG-class:</b>	B31									
<b>UTE-class:</b>	0.77 H + 0.23 T									
<b>IES-class:</b>	38 - 65 - 86 - 77 - 100									
<b>TM5-class:</b>	BZ6									
<b>Divergences in the plane through maximum intensity:</b>				Horizontal			Vertical			
<b>One half peak divergence:</b>				101.8°			166.8°			
<b>Half peak side angle (left):</b>				-50.7°			-95.4°			
<b>Half peak side angle (right):</b>				51.1°			71.4°			
<b>One tenth peak divergence:</b>				157.2°			314.8°			
<b>Tenth peak side angle (left):</b>				-78.6°			-159.0°			
<b>Tenth peak side angle (right):</b>				78.6°			155.9°			
<b>C-planes:</b>	0.0°	15.0°	30.0°	45.0°	60.0°	75.0°	90.0°	105.0°	120.0°	135.0°
	150.0°	165.0°	180.0°	195.0°	210.0°	225.0°	240.0°	255.0°	270.0°	285.0°
	300.0°	315.0°	330.0°	345.0°						
<b>Gamma:</b>	0.0°	1.0°	2.0°	3.0°	4.0°	5.0°	6.0°	7.0°	8.0°	9.0°
	10.0°	11.0°	12.0°	13.0°	14.0°	15.0°	16.0°	17.0°	18.0°	19.0°
	20.0°	21.0°	22.0°	23.0°	24.0°	25.0°	26.0°	27.0°	28.0°	29.0°
	30.0°	31.0°	32.0°	33.0°	34.0°	35.0°	36.0°	37.0°	38.0°	39.0°
	40.0°	41.0°	42.0°	43.0°	44.0°	45.0°	46.0°	47.0°	48.0°	49.0°
	50.0°	51.0°	52.0°	53.0°	54.0°	55.0°	56.0°	57.0°	58.0°	59.0°
	60.0°	61.0°	62.0°	63.0°	64.0°	65.0°	66.0°	67.0°	68.0°	69.0°
	70.0°	71.0°	72.0°	73.0°	74.0°	75.0°	76.0°	77.0°	78.0°	79.0°
	80.0°	81.0°	82.0°	83.0°	84.0°	85.0°	86.0°	87.0°	88.0°	89.0°
	90.0°	91.0°	92.0°	93.0°	94.0°	95.0°	96.0°	97.0°	98.0°	99.0°
	100.0°	101.0°	102.0°	103.0°	104.0°	105.0°	106.0°	107.0°	108.0°	109.0°
	110.0°	111.0°	112.0°	113.0°	114.0°	115.0°	116.0°	117.0°	118.0°	119.0°
	120.0°	121.0°	122.0°	123.0°	124.0°	125.0°	126.0°	127.0°	128.0°	129.0°
	130.0°	131.0°	132.0°	133.0°	134.0°	135.0°	136.0°	137.0°	138.0°	139.0°
	140.0°	141.0°	142.0°	143.0°	144.0°	145.0°	146.0°	147.0°	148.0°	149.0°
	150.0°	151.0°	152.0°	153.0°	154.0°	155.0°	156.0°	157.0°	158.0°	159.0°
	160.0°	161.0°	162.0°	163.0°	164.0°	165.0°	166.0°	167.0°	168.0°	169.0°
	170.0°	171.0°	172.0°	173.0°	174.0°	175.0°	176.0°	177.0°	178.0°	179.0°
	180.0°									