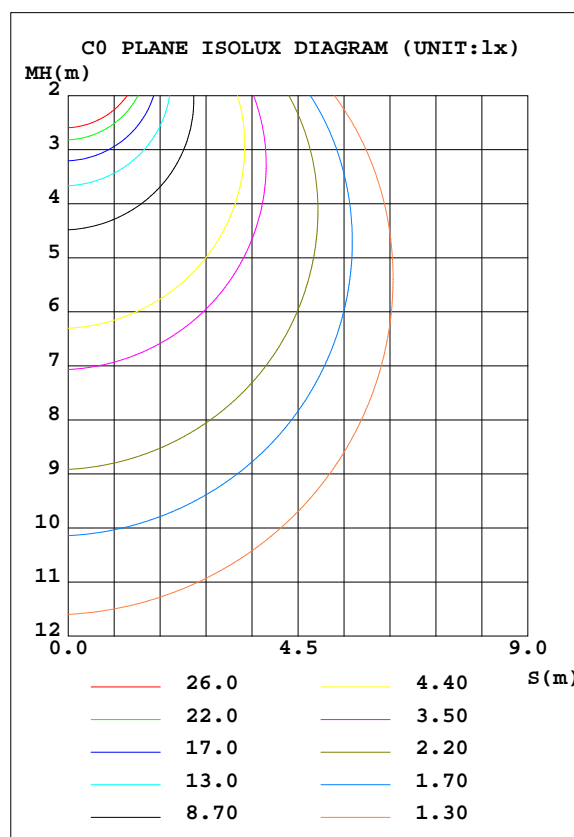
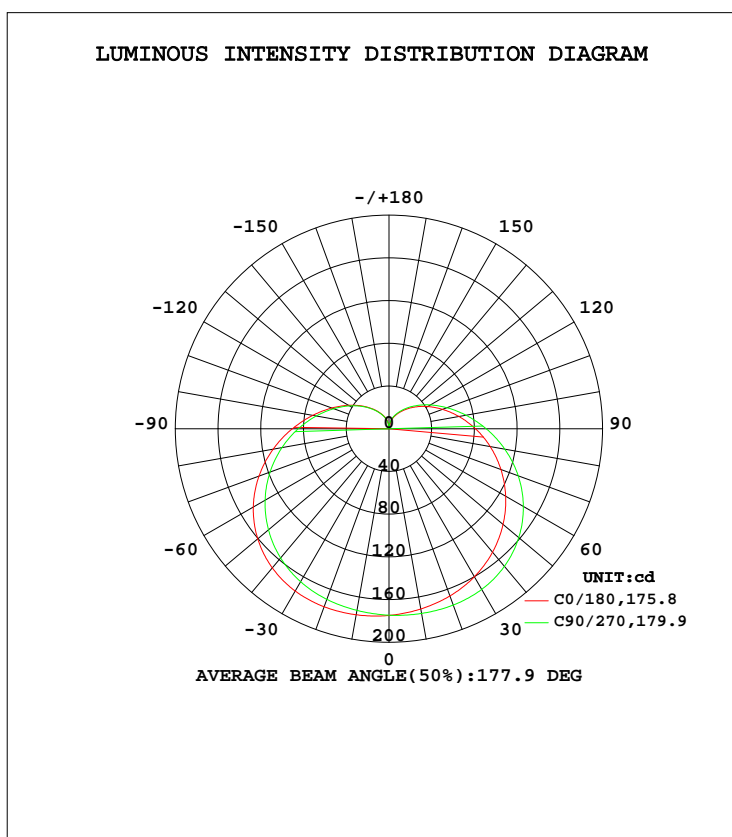


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:229.9V I:0.0824A P:10.63W PF:0.5614 Freq:50.01Hz Lamp Flux:1133.67x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:10aSA-A1060ST-Q1	DIM.:	SERIAL No.:A2002044C001
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 106.65 lm/W			
MODEL		Imax(cd)	178.2	S/MH(C0/180)	1.51
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.43
RATED VOLTAGE(V)		TOTAL FLUX(lm)	1133.7	η UP, DN(C0-180)	12.5, 38.1
NOMINAL FLUX(lm)	1133.67	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	12.2, 37.2
LAMPS INSIDE	1	η up(%)	24.7	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)		η down(%)	75.3	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.2DEG
 Operators:LWQ
 Test Date:2020-03-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.363T
 Humidity:45.6%
 Test Distance:1.510m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	171.4	173.3	175.6	177.0	176.9	175.1	172.7	171.2	0- 10	16.65	16.65	1.47,1.47
20	166.7	170.6	175.7	178.2	177.4	174.2	170.0	166.8	10- 20	49.13	65.78	5.8,5.8
30	160.0	166.1	173.7	176.8	175.5	171.0	165.4	160.7	20- 30	78.99	144.8	12.8,12.8
40	150.9	158.8	168.1	171.7	170.0	164.4	157.9	152.2	30- 40	103.9	248.6	21.9,21.9
50	139.4	148.4	158.6	162.2	160.4	154.0	147.3	141.3	40- 50	121.4	370.0	32.6,32.6
60	126.1	135.4	145.3	148.4	146.7	140.3	134.0	128.3	50- 60	130.0	500.0	44.1,44.1
70	111.6	120.3	128.7	130.9	129.5	123.8	118.5	113.6	60- 70	129.2	629.2	55.5,55.5
80	96.25	103.8	110.1	111.0	110.1	105.7	101.8	98.07	70- 80	119.9	749.1	66.1,66.1
90	81.03	87.06	91.05	90.95	90.50	87.49	84.97	82.51	80- 90	104.4	853.5	75.3,75.3
100	66.55	71.13	73.31	72.60	72.56	70.67	69.24	67.72	90-100	85.74	939.2	82.8,82.8
110	53.37	56.73	57.78	56.88	57.01	55.90	55.12	54.25	100-110	66.70	1006	88.7,88.7
120	41.78	44.28	44.76	43.93	44.07	43.39	42.92	42.39	110-120	49.19	1055	93.1,93.1
130	31.83	33.64	33.93	33.29	33.35	32.94	32.58	32.17	120-130	34.22	1089	96.1,96.1
140	23.41	24.75	25.02	24.60	24.57	24.29	23.92	23.54	130-140	22.15	1111	98,98
150	16.50	17.43	17.74	17.54	17.46	17.24	16.84	16.43	140-150	13.00	1124	99.2,99.2
160	10.67	11.18	11.85	11.83	11.77	11.58	11.11	10.28	150-160	6.600	1131	99.8,99.8
170	0.9594	4.144	5.568	5.920	5.777	5.369	5.131	4.193	160-170	2.413	1133	100,100
180	0.2623	0.2581	0.2609	0.2627	0.2608	0.2567	0.2588	0.2606	170-180	0.1847	1134	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 307.67 lm

%lum = 27.1%

%lamp = 27.1%

Conical surface Flux(120deg): 499.98 lm

%lum = 44.1%

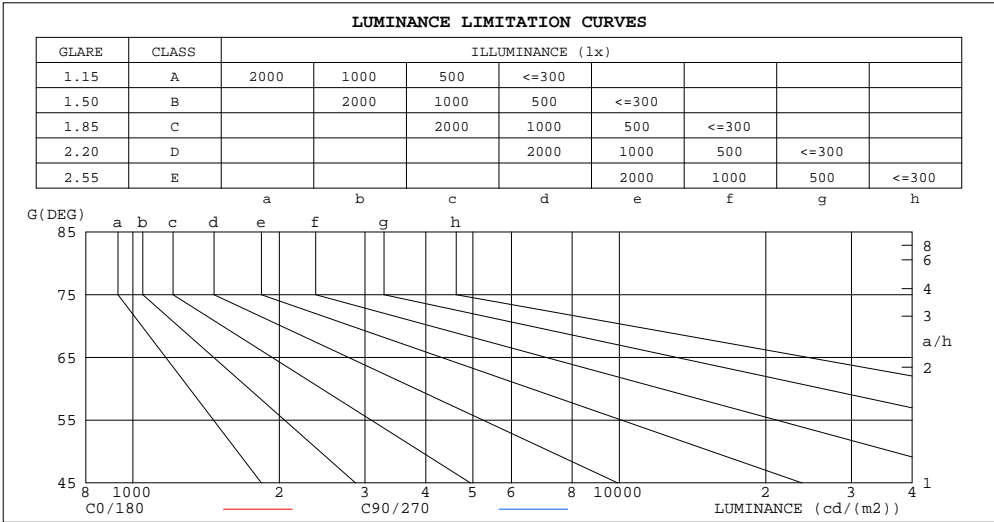
%lamp = 44.1%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.2DEG
Operators:LWQ
Test Date:2020-03-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.363T
Humidity:45.6%
Test Distance:1.510m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:229.9V I:0.0824A P:10.63W PF:0.5614 Freq:50.01Hz Lamp Flux:1133.67x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:10aSA-A1060ST-Q1	DIM.:	SERIAL No.:A2002044C001
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	326193	370087
80	177886	203486
75	128875	148281
70	104673	120795
65	90330	104281
60	80967	93238
55	74409	85255
50	69610	79187
45	65993	74366

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.2DEG
 Operators:LWQ
 Test Date:2020-03-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.363T
 Humidity:45.6%
 Test Distance:1.510m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:229.9V I:0.0824A P:10.63W PF:0.5614 Freq:50.01Hz Lamp Flux:1133.67x1 lm										
NAME:					TYPE:			WEIGHT:		
SPEC.:10aSA-A1060ST-Q1					DIM.:			SERIAL No.:A2002044C001		
MFR.:					SUR.:			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	25.9	27.2	26.5	27.8	28.5	26.5	27.8	27.1	28.4	29.1
3H	28.5	29.7	29.1	30.3	31.1	29.2	30.4	29.8	31.1	31.8
4H	29.9	31.1	30.6	31.7	32.5	30.7	31.8	31.3	32.5	33.3
6H	31.5	32.6	32.2	33.3	34.1	32.3	33.4	33.0	34.1	34.9
8H	32.4	33.4	33.1	34.1	34.9	33.2	34.3	33.9	34.9	35.7
12H	33.4	34.4	34.1	35.1	35.9	34.2	35.2	34.9	35.9	36.7
4H 2H	26.8	28.0	27.5	28.6	29.4	27.2	28.4	27.9	29.1	29.8
3H	29.6	30.6	30.3	31.3	32.1	30.2	31.2	30.8	31.9	32.7
4H	31.2	32.1	31.9	32.8	33.7	31.8	32.8	32.5	33.5	34.3
6H	32.9	33.8	33.7	34.5	35.4	33.6	34.5	34.3	35.2	36.1
8H	33.9	34.7	34.6	35.4	36.3	34.6	35.4	35.4	36.2	37.1
12H	35.0	35.8	35.8	36.5	37.4	35.8	36.5	36.5	37.3	38.2
8H 4H	31.9	32.7	32.6	33.4	34.3	32.4	33.2	33.1	33.9	34.8
6H	33.9	34.6	34.7	35.3	36.3	34.5	35.1	35.2	35.9	36.8
8H	35.1	35.7	35.8	36.5	37.4	35.7	36.3	36.4	37.1	38.0
12H	36.4	36.9	37.2	37.7	38.7	37.0	37.6	37.8	38.4	39.3
12H 4H	32.0	32.8	32.8	33.5	34.5	32.5	33.2	33.2	34.0	34.9
6H	34.2	34.8	35.0	35.6	36.5	34.7	35.3	35.5	36.1	37.0
8H	35.5	36.0	36.3	36.8	37.8	36.0	36.5	36.8	37.3	38.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				

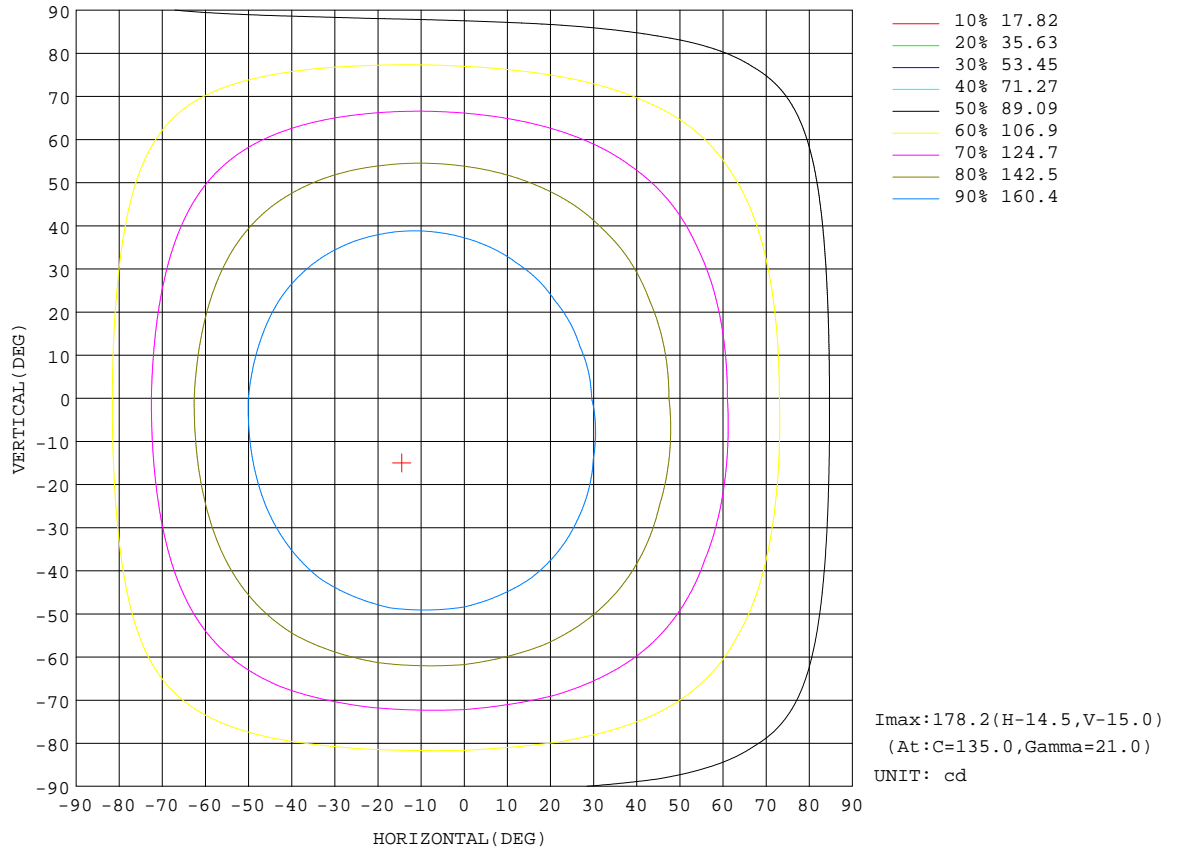
CIE Pub.117, 1134 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 0.4$)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.2DEG
Operators:LWQ
Test Date:2020-03-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.363T
Humidity:45.6%
Test Distance:1.510m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:229.9V I:0.0824A P:10.63W PF:0.5614 Freq:50.01Hz Lamp Flux:1133.67x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:10aSA-A1060ST-Q1	DIM.:	SERIAL No.:A2002044C001
MFR.:	SUR.:	Shielding Angle:

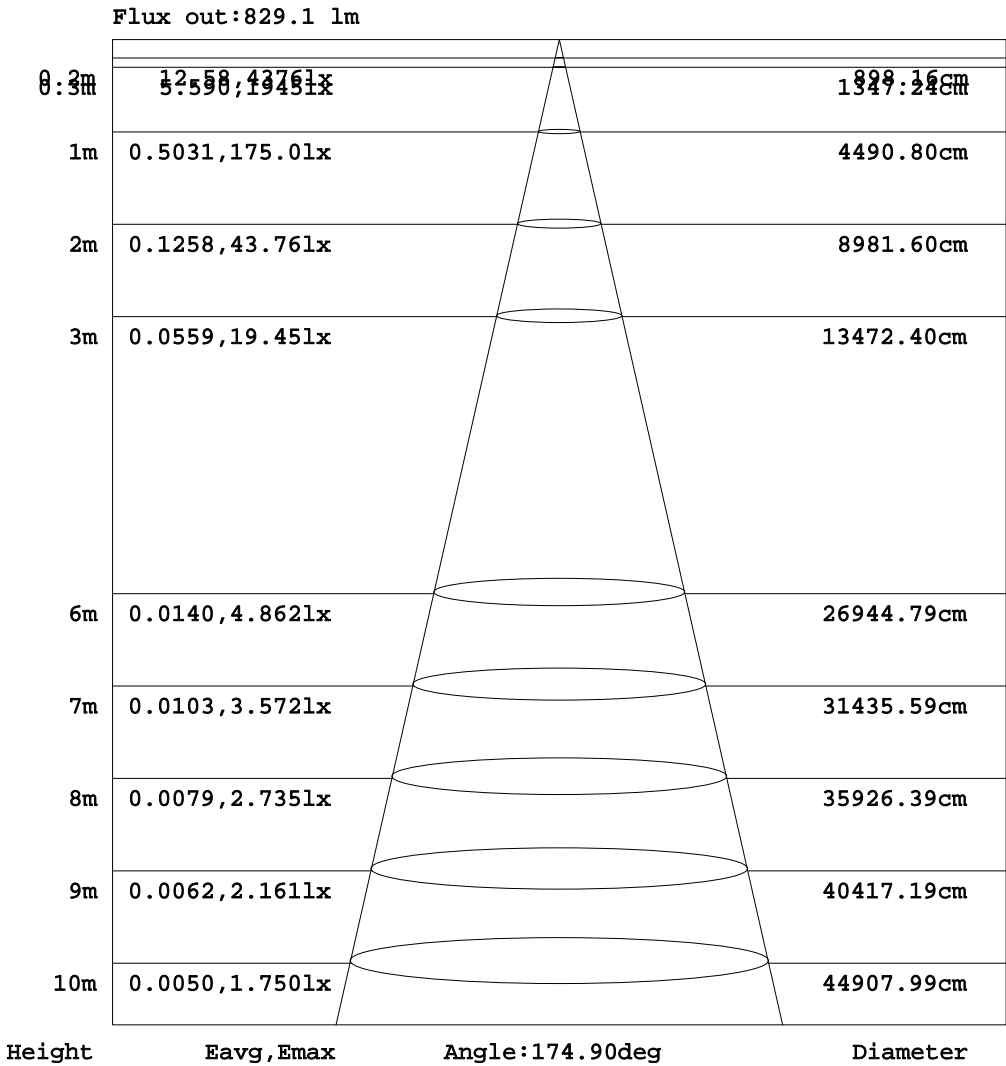


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.2DEG
 Operators:LWQ
 Test Date:2020-03-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.363T
 Humidity:45.6%
 Test Distance:1.510m [K=1.0000]
 Remarks:

AAI Figure

Test:U:229.9V I:0.0824A P:10.63W PF:0.5614 Freq:50.01Hz Lamp Flux:1133.67x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:10aSA-A1060ST-Q1	DIM.:	SERIAL No.:A2002044C001
MFR.:	SUR.:	Shielding Angle:

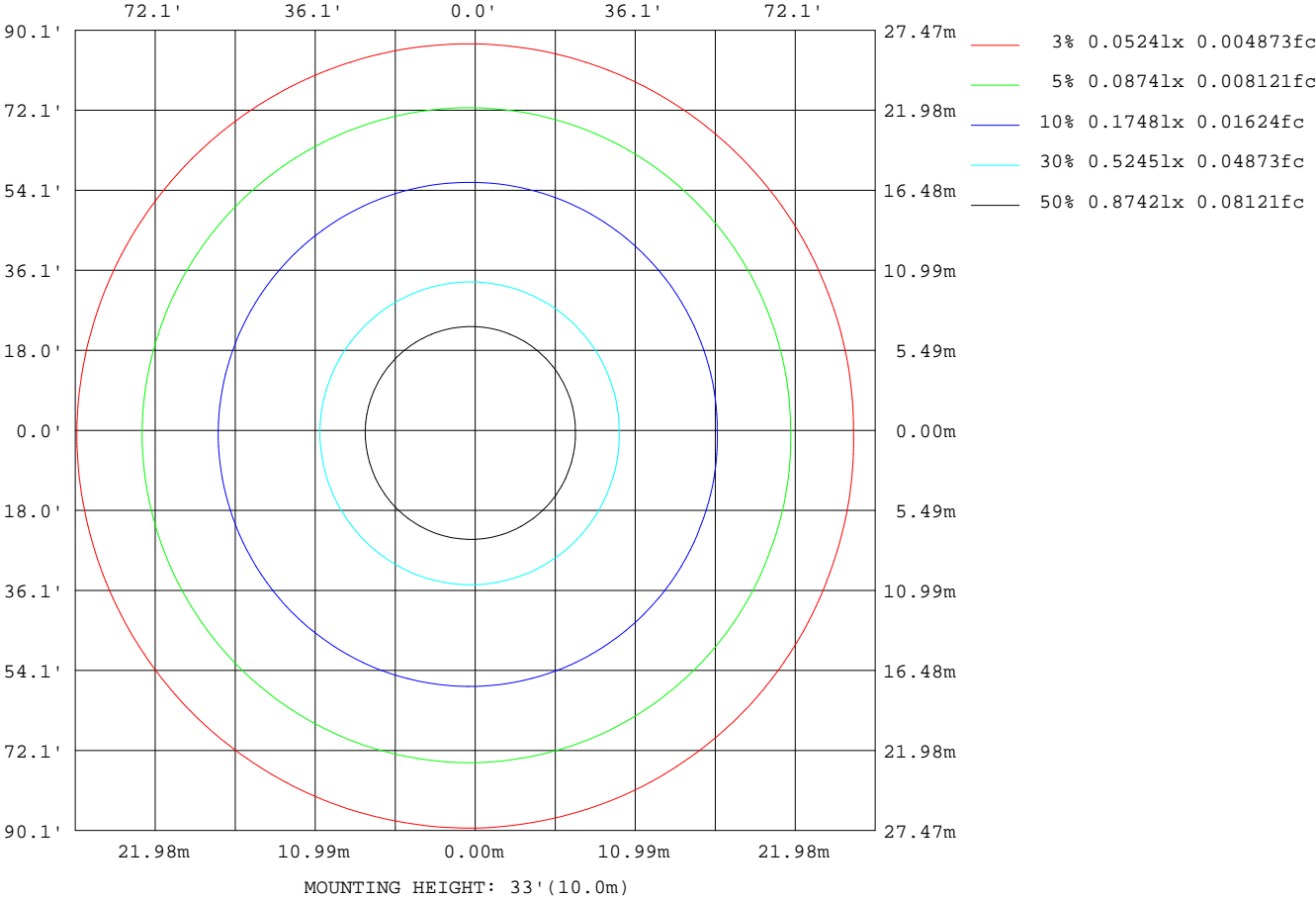


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG	γ Range: 0 - 180DEG
C Interval: 22.5DEG	γ Interval: 0.5DEG
Test Speed: HIGH	Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.363T
Temperature:24.2DEG	Humidity:45.6%
Operators:LWQ	Test Distance:1.510m [K=1.0000]
Test Date:2020-03-04	Remarks:

ISOLUX DIAGRAM

Test:U:229.9V I:0.0824A P:10.63W PF:0.5614 Freq:50.01Hz Lamp Flux:1133.67x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:10aSA-A1060ST-Q1	DIM.:	SERIAL No.:A2002044C001
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.2DEG
 Operators:LWQ
 Test Date:2020-03-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.363T
 Humidity:45.6%
 Test Distance:1.510m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:229.9V I:0.0824A P:10.63W PF:0.5614 Freq:50.01Hz Lamp Flux:1133.67x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:10aSA-A1060ST-Q1	DIM.:	SERIAL No.:A2002044C001
MFR.:	SUR.:	Shielding Angle:

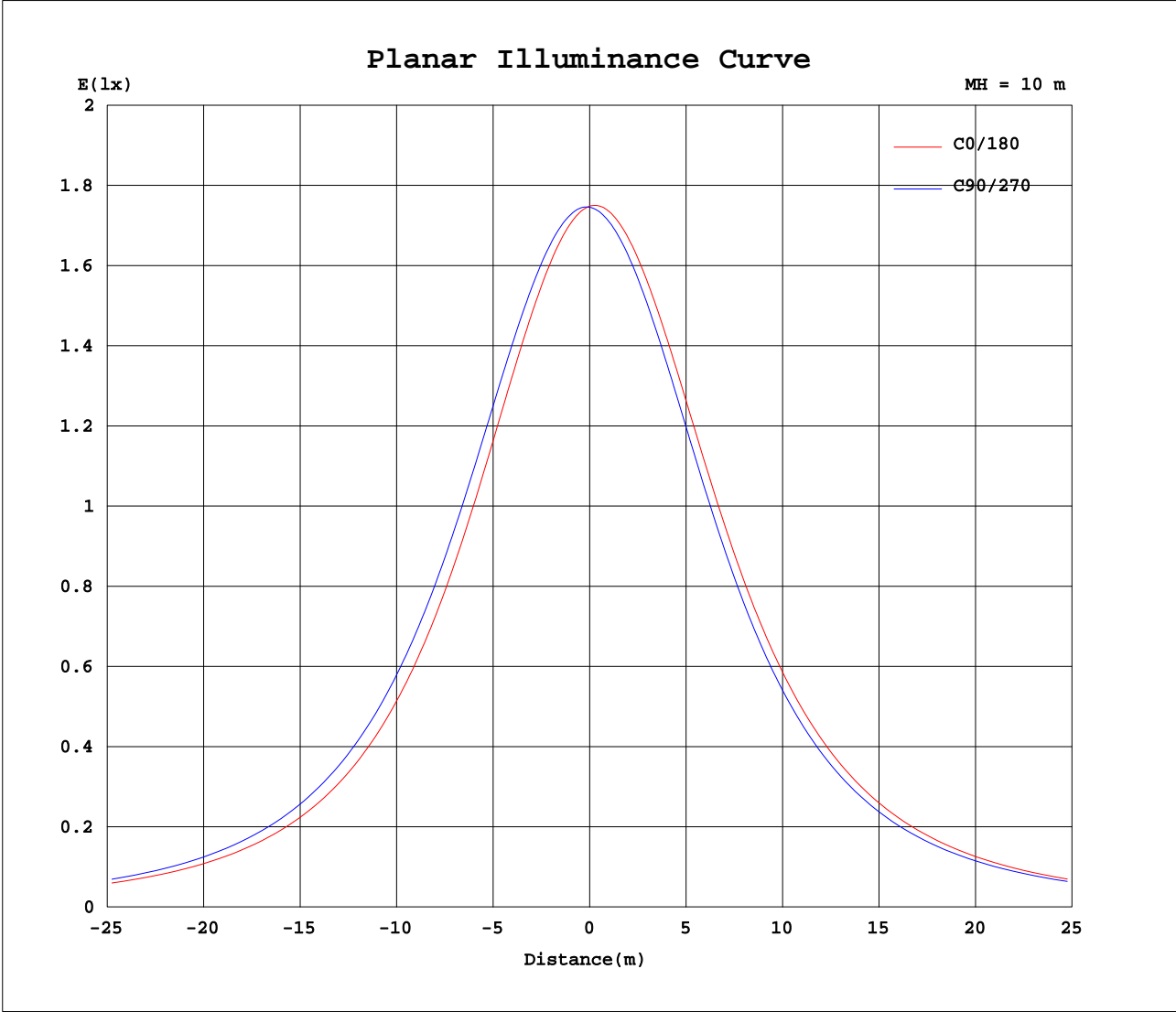
AvgL	cd/m2
L_0~180(65)av	97736
L_0~180(75)av	138824
L_0~180(85)av	347551
L_90~270(65)av	100156
L_90~270(75)av	142462
L_90~270(85)av	356792
L_45(65)av	99002
L_45(75)av	140744
L_45(85)av	352566

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.2DEG
Operators:LWQ
Test Date:2020-03-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.363T
Humidity:45.6%
Test Distance:1.510m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.2DEG
Operators: LWQ
Test Date: 2020-03-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.363T
Humidity: 45.6%
Test Distance: 1.510m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.9V I:0.0824A P:10.63W PF:0.5614 Freq:50.01Hz Lamp Flux:1133.67x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:10aSA-A1060ST-Q1	DIM.:	SERIAL No.:A2002044C001
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175			
5	173	174	174	175	175	176	176	176	176	176	175	174	174	173	173	173			
10	171	172	173	174	176	177	177	177	177	176	175	174	173	172	171	171			
15	169	170	172	174	176	177	178	178	177	176	175	173	171	170	169	169			
20	167	168	171	173	176	177	178	178	177	176	174	172	170	168	167	166			
25	164	166	169	172	175	177	178	178	177	175	173	171	168	166	164	163			
30	160	162	166	170	174	176	177	176	176	174	171	168	165	163	161	160			
35	156	158	163	167	171	174	175	174	173	171	168	165	162	159	157	156			
40	151	154	159	164	168	171	172	171	170	167	164	161	158	155	152	151			
45	145	149	154	159	164	167	168	167	166	163	160	156	153	150	147	145			
50	139	143	148	154	159	161	162	162	160	157	154	151	147	144	141	140			
55	133	137	142	148	152	155	156	155	154	151	148	144	141	138	135	133			
60	126	130	135	141	145	148	148	148	147	144	140	137	134	131	128	126			
65	119	123	128	133	137	139	140	139	138	136	132	129	126	124	121	119			
70	112	115	120	125	129	130	131	130	129	127	124	121	118	116	114	112			
75	104	107	112	117	120	121	121	121	120	118	115	112	110	108	106	104			
80	96.3	99.2	104	108	110	111	111	110	110	108	106	104	102	100	98.1	96.6			
85	88.6	91.3	95.4	98.7	101	101	101	100	100	98.4	96.5	94.7	93.3	91.9	90.2	88.9			
90	81.0	83.5	87.1	89.8	91.0	91.2	91.0	90.5	90.5	89.1	87.5	86.0	85.0	83.9	82.5	81.3			
95	73.7	75.8	78.9	81.1	82.0	81.8	81.5	81.1	81.2	80.2	78.8	77.7	76.9	76.2	75.0	74.0			
100	66.5	68.4	71.1	72.9	73.3	73.0	72.6	72.2	72.6	71.7	70.7	69.7	69.2	68.7	67.7	66.9			
105	59.8	61.4	63.7	65.1	65.2	64.8	64.4	64.1	64.5	63.8	63.0	62.3	61.9	61.6	60.8	60.1			
110	53.4	54.8	56.7	57.8	57.8	57.2	56.9	56.6	57.0	56.6	55.9	55.3	55.1	54.9	54.3	53.6			
115	47.4	48.6	50.3	51.1	51.0	50.4	50.1	49.9	50.2	49.9	49.4	48.9	48.8	48.7	48.1	47.6			
120	41.8	42.9	44.3	44.9	44.8	44.2	43.9	43.7	44.1	43.8	43.4	43.0	42.9	42.8	42.4	41.9			
125	36.6	37.5	38.7	39.3	39.1	38.6	38.3	38.2	38.5	38.2	37.9	37.6	37.5	37.5	37.1	36.7			
130	31.8	32.7	33.6	34.1	33.9	33.5	33.3	33.2	33.4	33.2	32.9	32.6	32.6	32.5	32.2	31.9			
135	27.4	28.1	29.0	29.4	29.3	28.9	28.7	28.6	28.7	28.6	28.4	28.1	28.0	27.9	27.7	27.4			
140	23.4	24.0	24.7	25.1	25.0	24.8	24.6	24.5	24.6	24.5	24.3	24.0	23.9	23.8	23.5	23.4			
145	19.8	20.3	20.9	21.2	21.2	21.0	20.9	20.8	20.8	20.7	20.6	20.3	20.2	20.1	19.8	19.2			
150	16.5	16.9	17.4	17.7	17.7	17.6	17.5	17.5	17.5	17.4	17.2	17.0	16.8	16.7	16.4	14.9			
155	13.5	13.9	14.3	14.6	14.7	14.6	14.6	14.5	14.5	14.4	14.3	14.1	13.9	13.7	13.2	11.9			
160	10.7	11.0	11.2	11.7	11.8	11.8	11.8	11.8	11.8	11.7	11.6	11.3	11.1	10.9	10.3	9.48			
165	6.78	7.73	7.63	8.71	9.02	9.05	9.07	9.08	9.05	9.05	8.88	8.59	8.29	8.02	7.51	6.40			
170	0.96	1.61	4.14	5.31	5.57	5.89	5.92	5.85	5.78	5.80	5.37	5.42	5.13	4.45	4.19	2.53			
175	0.27	0.27	0.27	0.26	0.27	0.28	0.30	0.29	0.23	0.25	0.23	0.23	0.23	0.23	0.23	0.23			
180	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.2DEG
 Operators:LWQ
 Test Date:2020-03-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.363T
 Humidity:45.6%
 Test Distance:1.510m [K=1.0000]
 Remarks: