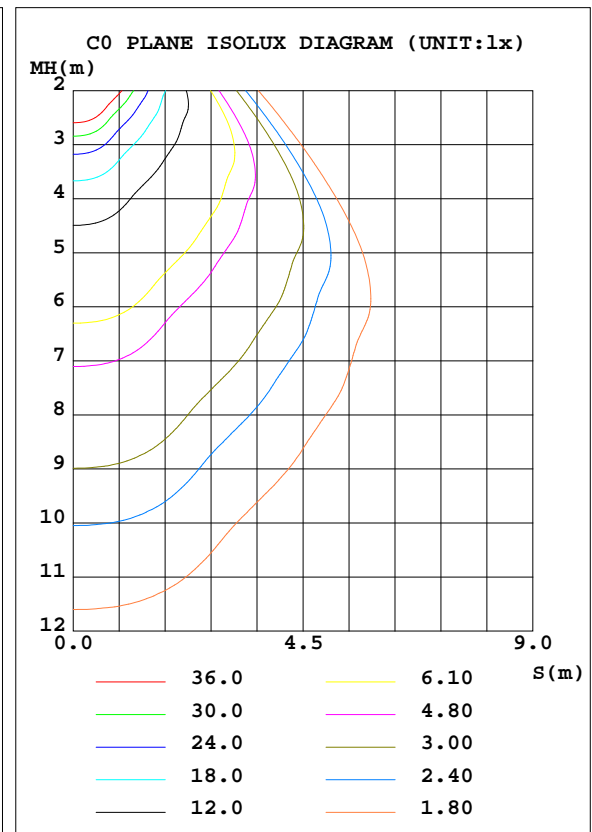
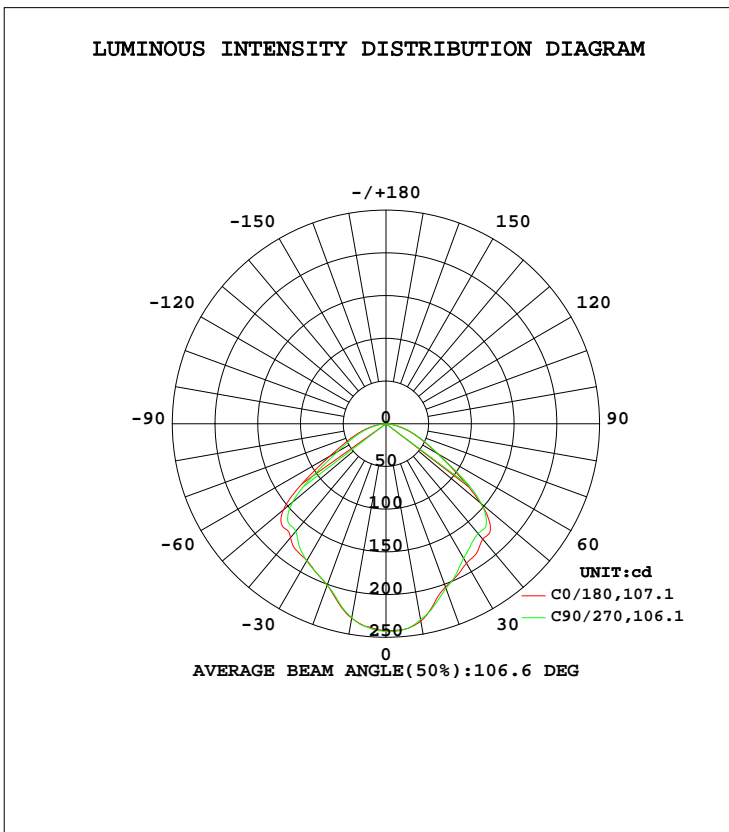


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.1V I:0.0514A P:6.377W PF:0.5388 Freq:50.00Hz Lamp Flux:584.77x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:MR_PAR16_8bSA-M550ST	DIM.:	SERIAL No.:A1920994D001
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 91.70 lm/W			
MODEL		I _{max} (cd)	243.5	S/MH(C0/180)	1.15
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.15
RATED VOLTAGE(V)		TOTAL FLUX(lm)	584.77	η UP, DN(C0-180)	0.0,50.4
NOMINAL FLUX(lm)	584.77	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,49.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)		η down(%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:LSC
 Test Date:2019-12-06

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-SPEC316_V1 SYSTEM V2.0.362
 Humidity:40%
 Test Distance:3.150m [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	234.6	235.2	232.8	232.1	231.3	229.7	230.7	235.4	0- 10	22.72	22.72	3.89,3.89
20	203.6	206.3	205.3	205.9	201.1	200.4	201.1	210.7	10- 20	61.49	84.21	14.4,14.4
30	188.6	181.7	181.8	185.4	185.1	180.4	185.4	187.6	20- 30	89.72	173.9	29.7,29.7
40	176.2	164.4	167.8	173.4	173.9	160.4	164.5	168.1	30- 40	111.1	285.0	48.7,48.7
50	144.5	142.2	145.8	151.1	156.8	144.0	142.6	144.0	40- 50	126.6	411.6	70.4,70.4
60	69.20	69.10	70.34	72.55	76.11	67.96	66.16	68.88	50- 60	94.36	506.0	86.5,86.5
70	33.53	34.46	35.41	35.89	37.00	33.54	33.00	34.86	60- 70	49.82	555.8	95,95
80	10.92	12.03	12.46	12.49	13.40	12.01	10.97	11.84	70- 80	24.04	579.8	99.2,99.2
90	0	0	0	0	0	0	0	0	80- 90	4.924	584.8	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 347.39 lm

%lum = 59.4%

%lamp = 59.4%

Conical surface Flux(120deg): 505.99 lm

%lum = 86.5%

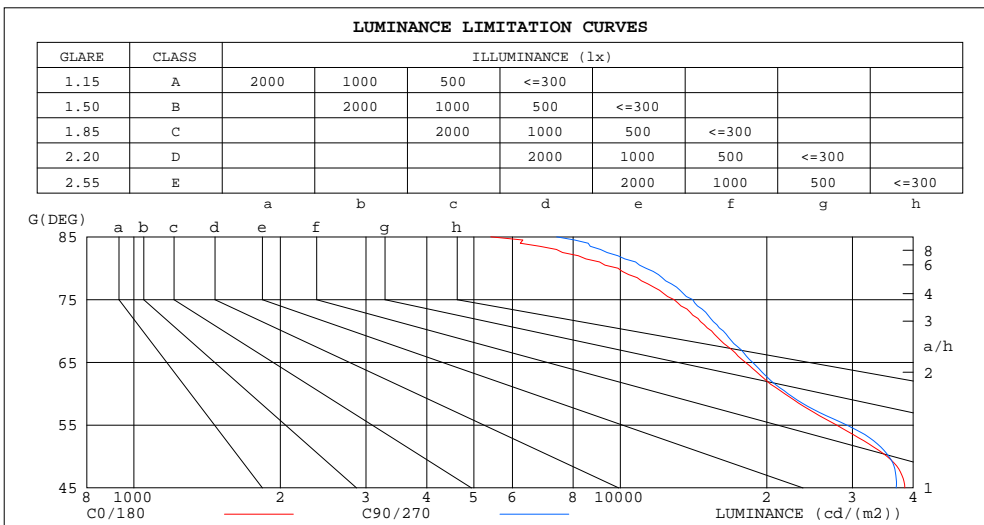
%lamp = 86.5%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:LSC
 Test Date:2019-12-06

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-SPEC316_V1 SYSTEM V2.0.362
 Humidity:40%
 Test Distance:3.150m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.1V I:0.0514A P:6.377W PF:0.5388 Freq:50.00Hz Lamp Flux:584.77x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:MR_PAR16_8bSA-M550ST	DIM.:	SERIAL No.:A1920994D001
MFR.: EVERFINE	SUR.:	Shielding Angle:



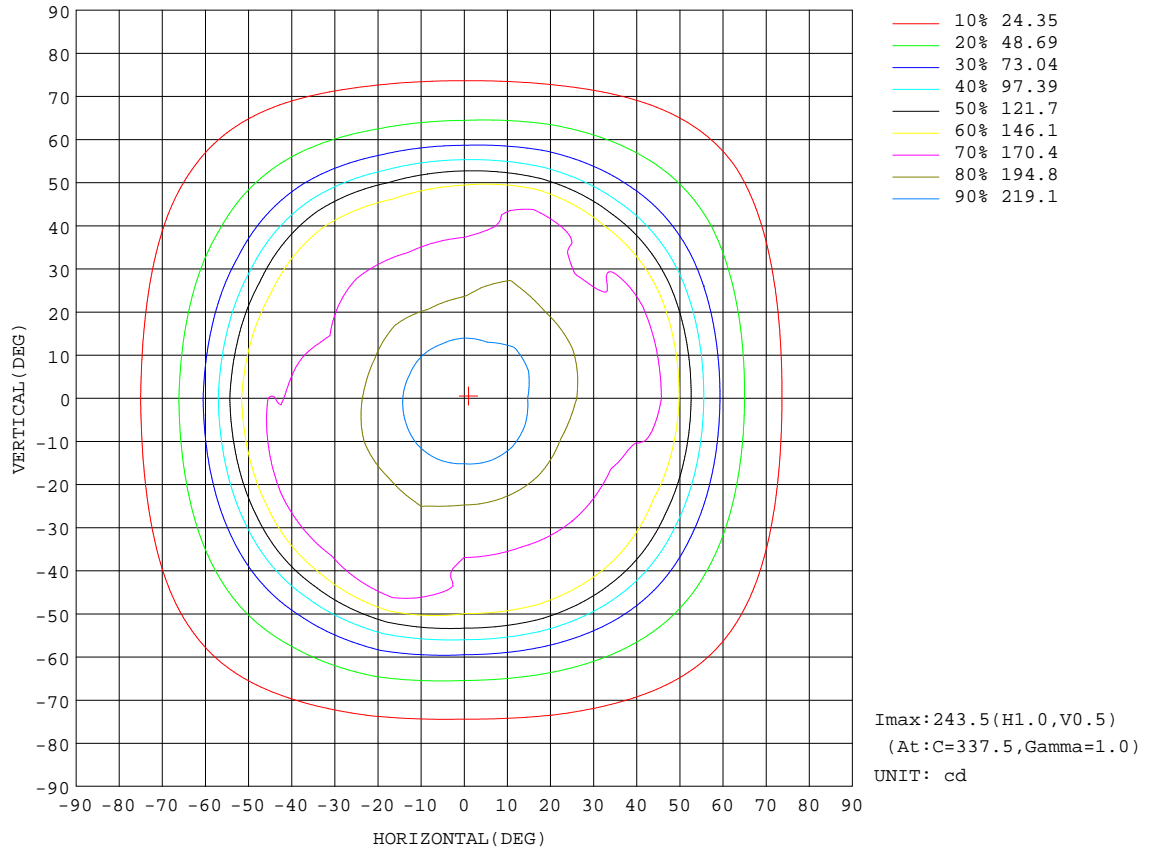
LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	5417	7396
80	9886	11282
75	12889	14087
70	15408	16274
65	18079	18700
60	21755	22113
55	27831	29195
50	35333	35644
45	38436	36906

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.9DEG
 Operators: LSC
 Test Date: 2019-12-06

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-SPEC316_V1 SYSTEM V2.0.362
 Humidity: 40%
 Test Distance: 3.150m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.1V I:0.0514A P:6.377W PF:0.5388 Freq:50.00Hz Lamp Flux:584.77x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:MR_PAR16_8bSA-M550ST	DIM.:	SERIAL No.:A1920994D001
MFR.: EVERFINE	SUR.:	Shielding Angle:

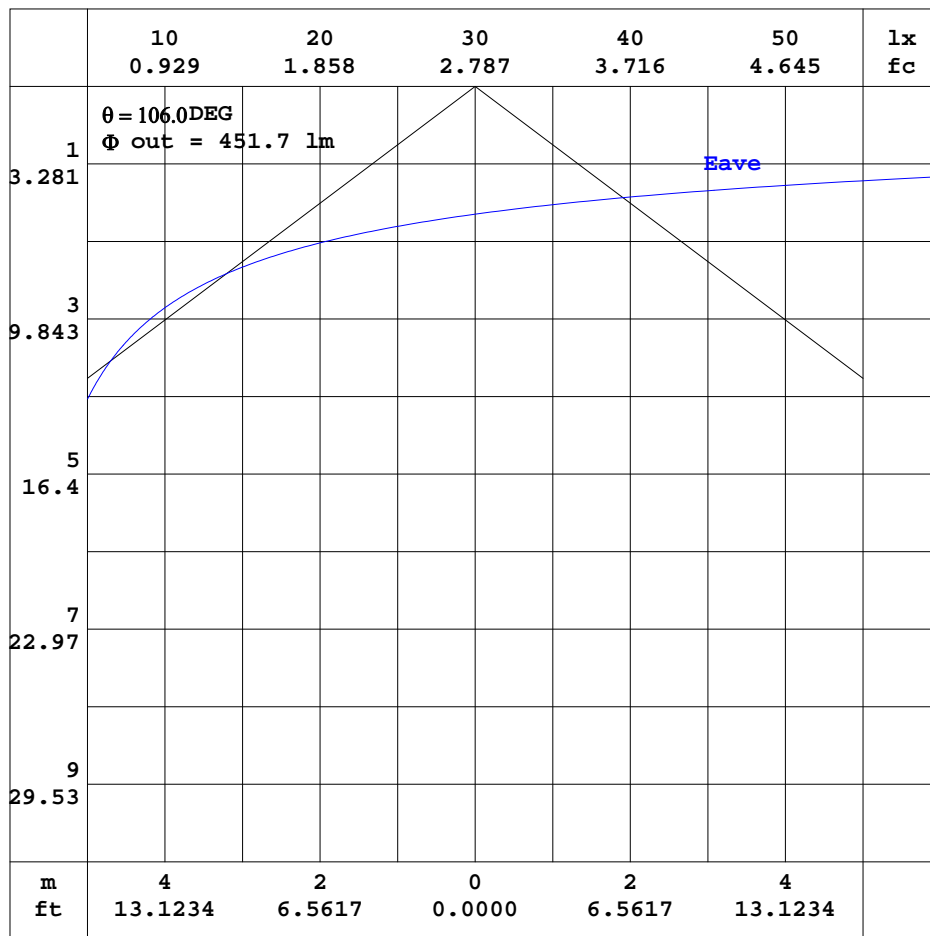


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.9DEG
 Operators: LSC
 Test Date: 2019-12-06

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-SPEC316_V1 SYSTEM V2.0.362
 Humidity: 40%
 Test Distance: 3.150m [K=1.0000]
 Remarks:

AAI CURVES

Test:U:230.1V I:0.0514A P:6.377W PF:0.5388 Freq:50.00Hz Lamp Flux:584.77x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:MR_PAR16_8bSA-M550ST	DIM.:	SERIAL No.:A1920994D001
MFR.: EVERFINE	SUR.:	Shielding Angle:



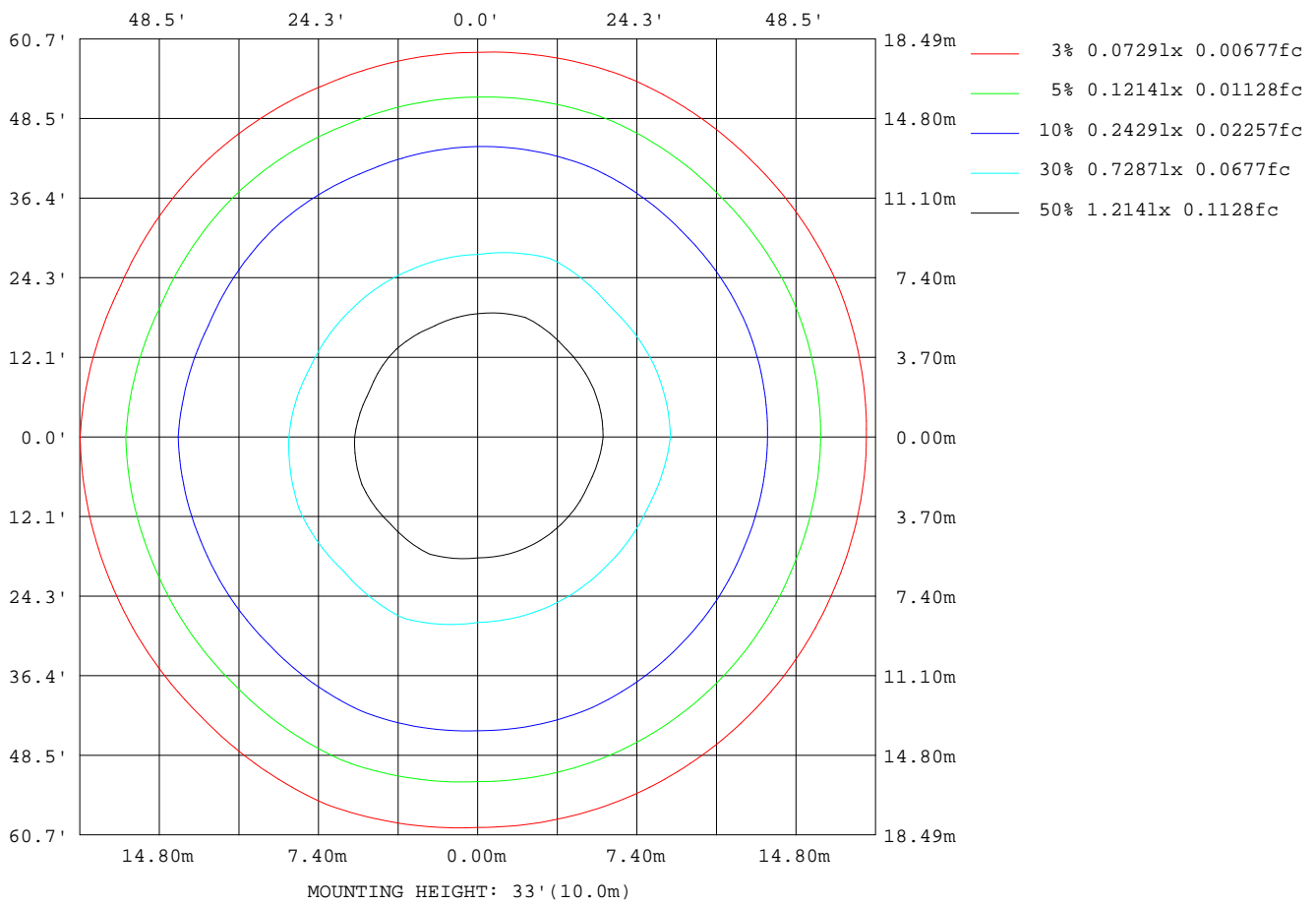
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:LSC
 Test Date:2019-12-06

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-SPEC316_V1 SYSTEM V2.0.362
 Humidity:40%
 Test Distance:3.150m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:230.1V I:0.0514A P:6.377W PF:0.5388 Freq:50.00Hz Lamp Flux:584.77x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:MR_PAR16_8bSA-M550ST	DIM.:	SERIAL No.:A1920994D001
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:LSC
 Test Date:2019-12-06

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-SPEC316_V1 SYSTEM V2.0.362
 Humidity:40%
 Test Distance:3.150m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:230.1V I:0.0514A P:6.377W PF:0.5388 Freq:50.00Hz Lamp Flux:584.77x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:MR_PAR16_8bSA-M550ST	DIM.:	SERIAL No.:A1920994D001
MFR.: EVERFINE	SUR.:	Shielding Angle:

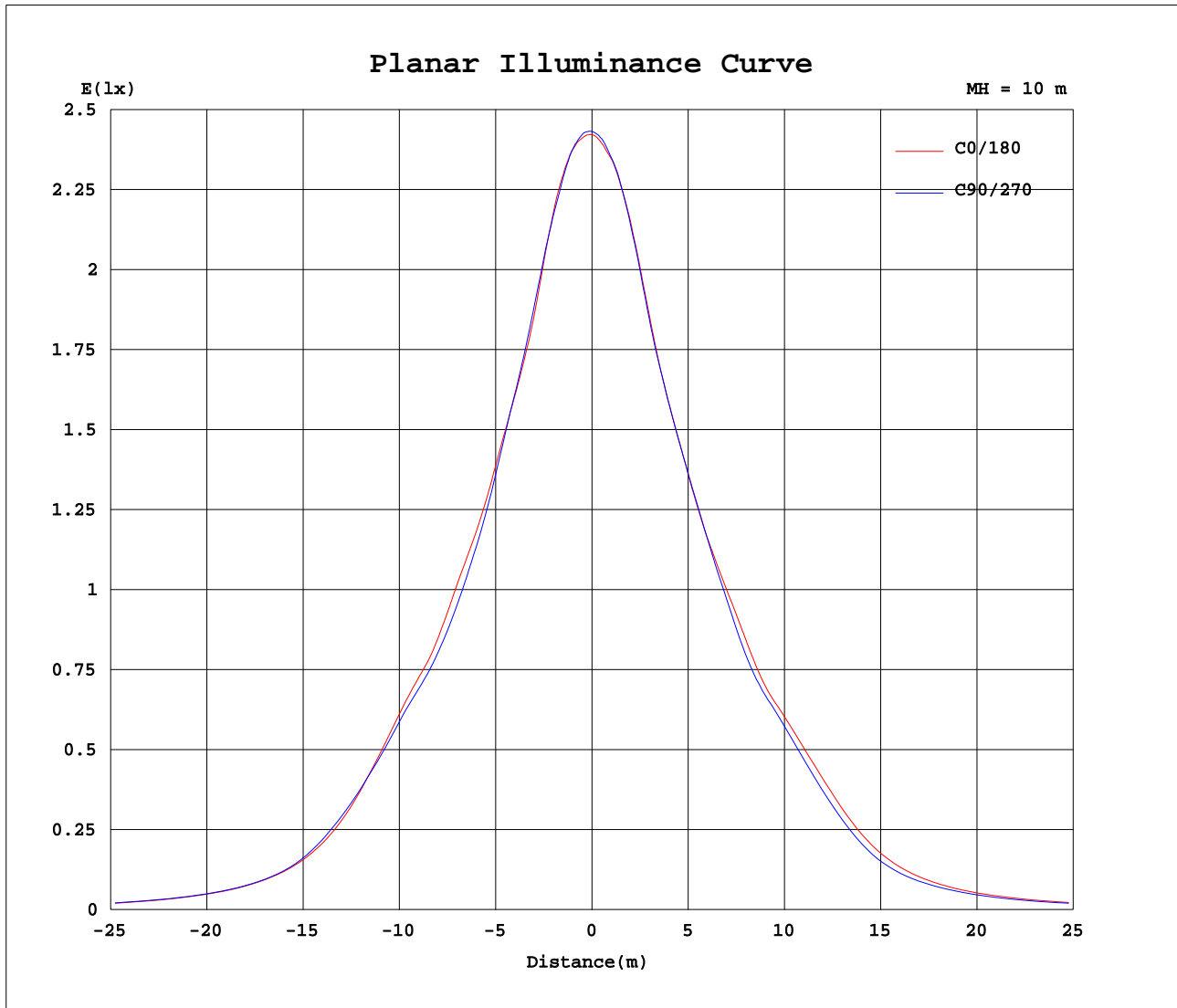
AvgL	cd/m2
L_0~180(65)av	18846
L_0~180(75)av	13856
L_0~180(85)av	6959
L_90~270(65)av	18074
L_90~270(75)av	13499
L_90~270(85)av	6599
L_45(65)av	18296
L_45(75)av	13742
L_45(85)av	7012

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:LSC
Test Date:2019-12-06

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-SPEC316_V1 SYSTEM V2.0.362
Humidity:40%
Test Distance:3.150m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.9DEG
 Operators: LSC
 Test Date: 2019-12-06

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-SPEC316_V1 SYSTEM V2.0.362
 Humidity: 40%
 Test Distance: 3.150m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.1V I:0.0514A P:6.377W PF:0.5388 Freq:50.00Hz Lamp Flux:584.77x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:MR_PAR16_8bSA-M550ST	DIM.:	SERIAL No.:A1920994D001
MFR.: EVERFINE	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	242	242	243	243	243	243	243	243	242	242	243	243	243	243	243	243			
5	241	242	242	242	242	241	240	239	239	239	238	239	239	240	242	242			
10	235	235	235	235	233	233	232	232	231	229	230	230	231	232	235	237			
15	218	220	222	221	220	221	220	218	217	215	215	214	215	216	223	223			
20	204	205	206	205	205	206	206	204	201	201	200	199	201	205	211	209			
25	196	193	194	194	194	197	195	195	193	188	190	189	193	201	200	199			
30	189	182	182	182	182	190	185	188	185	177	180	179	185	194	188	189			
35	185	173	173	172	173	185	179	183	182	169	174	172	176	185	175	178			
40	176	167	164	166	168	181	173	176	174	163	160	161	164	178	168	172			
45	173	159	162	163	166	181	173	176	171	160	157	157	162	173	166	172			
50	144	138	142	147	146	160	151	152	157	145	144	138	143	151	144	147			
55	102	99.2	102	106	107	112	108	109	116	103	102	97.8	100	103	100	103			
60	69.2	68.1	69.1	70.2	70.3	75.4	72.6	73.4	76.1	68.5	68.0	65.5	66.2	69.4	68.9	70.3			
65	48.6	48.1	48.8	49.8	50.3	53.4	51.1	51.5	52.7	47.9	47.4	46.2	46.9	49.3	49.5	50.5			
70	33.5	33.6	34.5	35.1	35.4	37.0	35.9	35.8	37.0	34.0	33.5	32.7	33.0	34.0	34.9	35.4			
75	21.2	21.8	22.6	23.1	23.2	23.9	23.3	23.1	24.4	22.6	22.3	21.5	21.3	21.5	22.3	22.9			
80	10.9	11.6	12.0	12.5	12.5	12.9	12.5	12.3	13.4	12.2	12.0	11.1	11.0	11.0	11.8	12.1			
85	3.00	3.73	3.94	4.06	4.10	4.22	4.03	3.94	4.71	4.03	3.90	3.33	3.22	3.18	3.68	3.91			
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			

C Range: 0 - 360DEG γ Range: 0 - 90DEG
 C Interval: 22.5DEG γ Interval: 0.5DEG
 Test Speed: HIGH Test System:EVERFINE GO-SPEC316_V1 SYSTEM V2.0.362
 Temperature:24.9DEG Humidity:40%
 Operators:LSC Test Distance:3.150m [K=1.0000]
 Test Date:2019-12-06 Remarks: