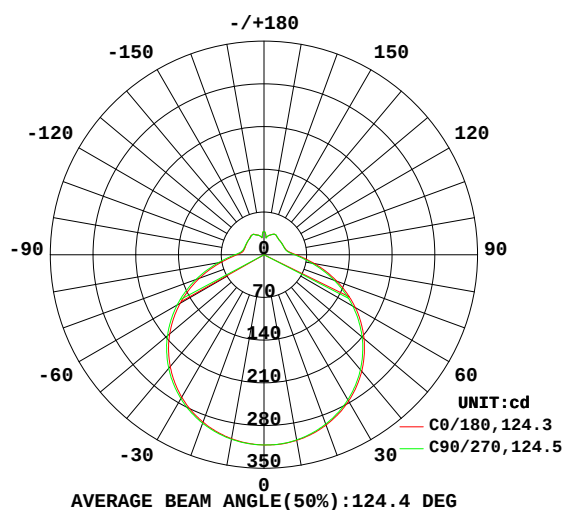


LUMINAIRE PHOTOMETRIC TEST REPORT

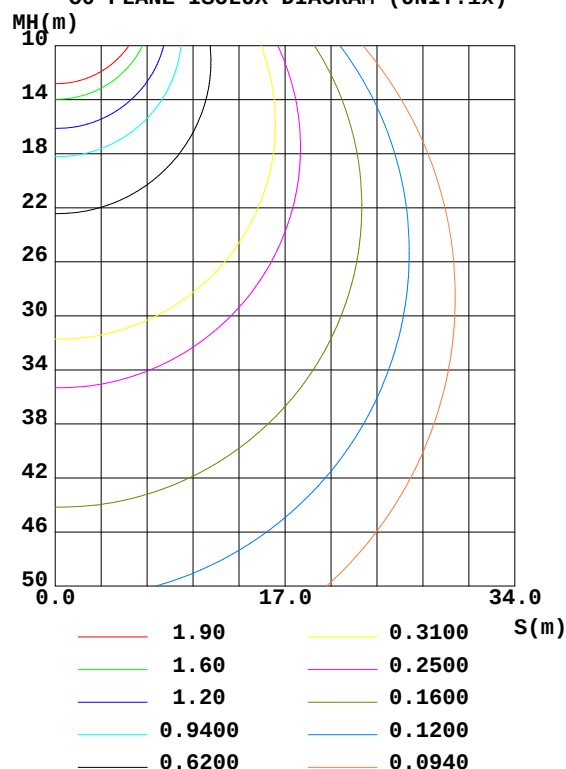
Test:U:230.07V I:0.1034A P:13.792W PF:0.5798 Freq:50.00Hz Lamp Flux:1292.86x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: CDA1a_SM-SVCCDA1a016DR-NNM1200W40	DIM.:	SERIAL No.: A2116000B001
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 93.74 lm/W			
MODEL		Imax(cd)	312.0	S/MH(C0/180)	1.29
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.30
RATED VOLTAGE(V)		TOTAL FLUX(lm)	1292.9	η UP, DN(C0-180)	8.9, 41.6
NOMINAL FLUX(lm)	1292.86	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	8.7, 40.8
LAMPS INSIDE	1	η up(%)	17.6	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)		η down(%)	82.4	CIBSE SHR MAX	1.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: LSC
Test Date: 2021-11-29

Checker: HXP

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.429
Humidity: 49%
Test Distance: 26.000m [K=1.0000]
Remarks:

Assessor:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	308.8	308.8	307.9	306.8	306.1	306.1	307.0	308.0	0- 10	29.56	29.56	2.29,2.29
20	297.1	297.0	295.3	293.1	292.0	292.2	293.9	295.8	10- 20	85.33	114.9	8.89,8.89
30	277.0	276.9	274.5	271.3	269.5	269.8	272.4	275.4	20- 30	131.5	246.4	19.1,19.1
40	249.2	249.0	245.8	241.5	239.1	239.6	243.0	246.9	30- 40	162.6	409.0	31.6,31.6
50	214.1	213.7	210.0	204.6	201.7	202.3	206.6	211.4	40- 50	175.1	584.1	45.2,45.2
60	172.6	172.4	167.9	161.8	158.4	159.2	164.1	169.7	50- 60	167.7	751.8	58.1,58.1
70	127.3	127.0	122.3	116.1	112.7	113.5	118.7	124.2	60- 70	141.7	893.5	69.1,69.1
80	83.83	83.67	79.52	74.30	71.14	72.11	76.22	80.92	70- 80	103.9	997.4	77.1,77.1
90	52.86	52.67	50.12	47.13	44.51	45.55	47.84	50.12	80- 90	67.40	1065	82.4,82.4
100	38.80	38.86	37.83	36.94	34.71	35.57	36.68	36.87	90-100	45.52	1110	85.9,85.9
110	35.69	35.56	35.25	35.00	33.36	33.94	34.35	34.62	100-110	37.57	1148	88.8,88.8
120	34.98	34.79	34.74	34.68	33.69	33.82	34.22	34.23	110-120	34.19	1182	91.4,91.4
130	34.85	34.79	34.74	34.68	34.72	34.47	34.87	34.87	120-130	31.00	1213	93.8,93.8
140	35.62	35.56	35.70	35.97	36.34	35.95	35.58	35.72	130-140	27.20	1240	95.9,95.9
150	37.88	38.02	38.03	38.04	38.07	37.95	38.03	37.01	140-150	23.20	1263	97.7,97.7
160	35.05	35.12	35.12	34.87	34.59	34.53	34.67	34.62	150-160	17.05	1281	99,99
170	30.28	30.21	30.08	30.28	30.26	30.33	30.48	30.55	160-170	9.382	1290	99.8,99.8
180	37.94	37.95	38.03	37.91	38.01	37.95	37.90	37.97	170-180	2.969	1293	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 496.2 lm

%lum = 38.4%

%lamp = 38.4%

Conical surface Flux(120deg): 751.79 lm

%lum = 58.1%

%lamp = 58.1%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:LSC
 Test Date:2021-11-29

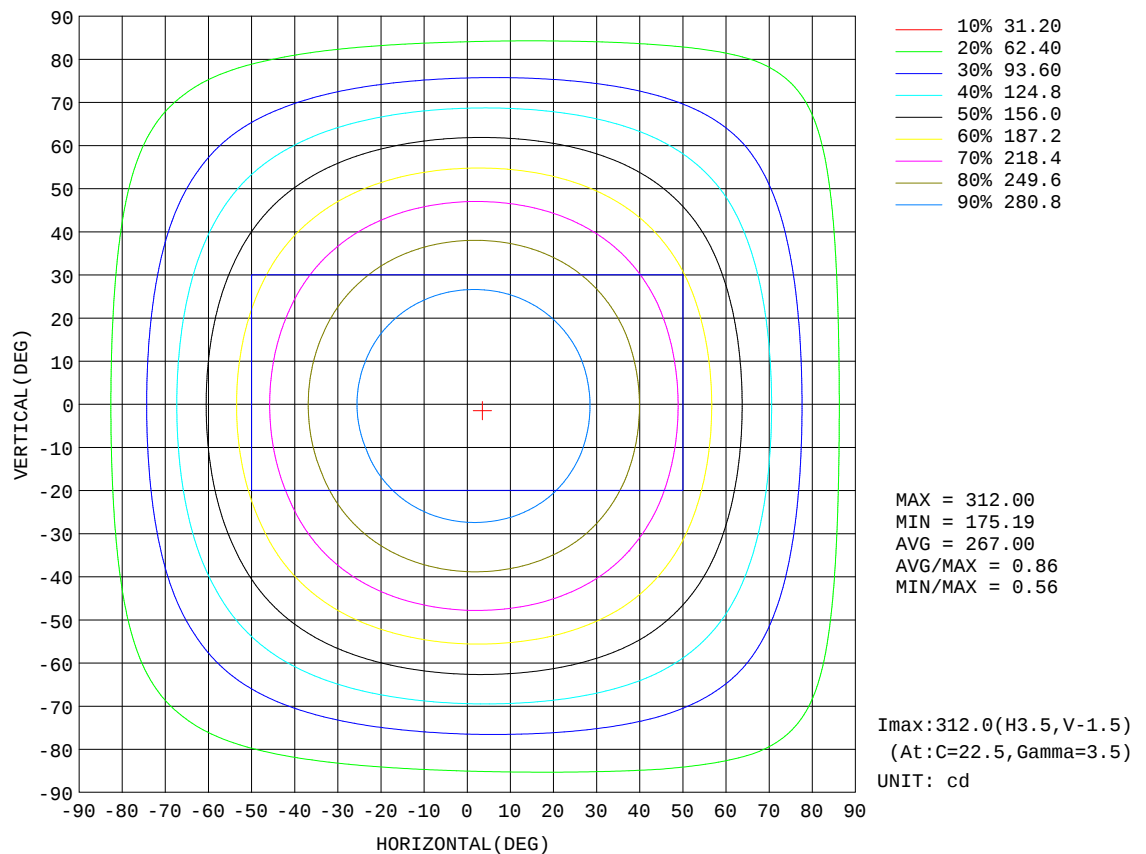
γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.429
 Humidity:49%
 Test Distance:26.000m [K=1.0000]
 Remarks:

Checker: HXP

Assessor:

ISOCANDELA DIAGRAM

Test:U:230.07V I:0.1034A P:13.792W PF:0.5798 Freq:50.00Hz Lamp Flux:1292.86x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: CDA1a_SM-SVCCDA1a016DR-NNM1200W40	DIM.:	SERIAL No.: A2116000B001
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: LSC
Test Date: 2021-11-29

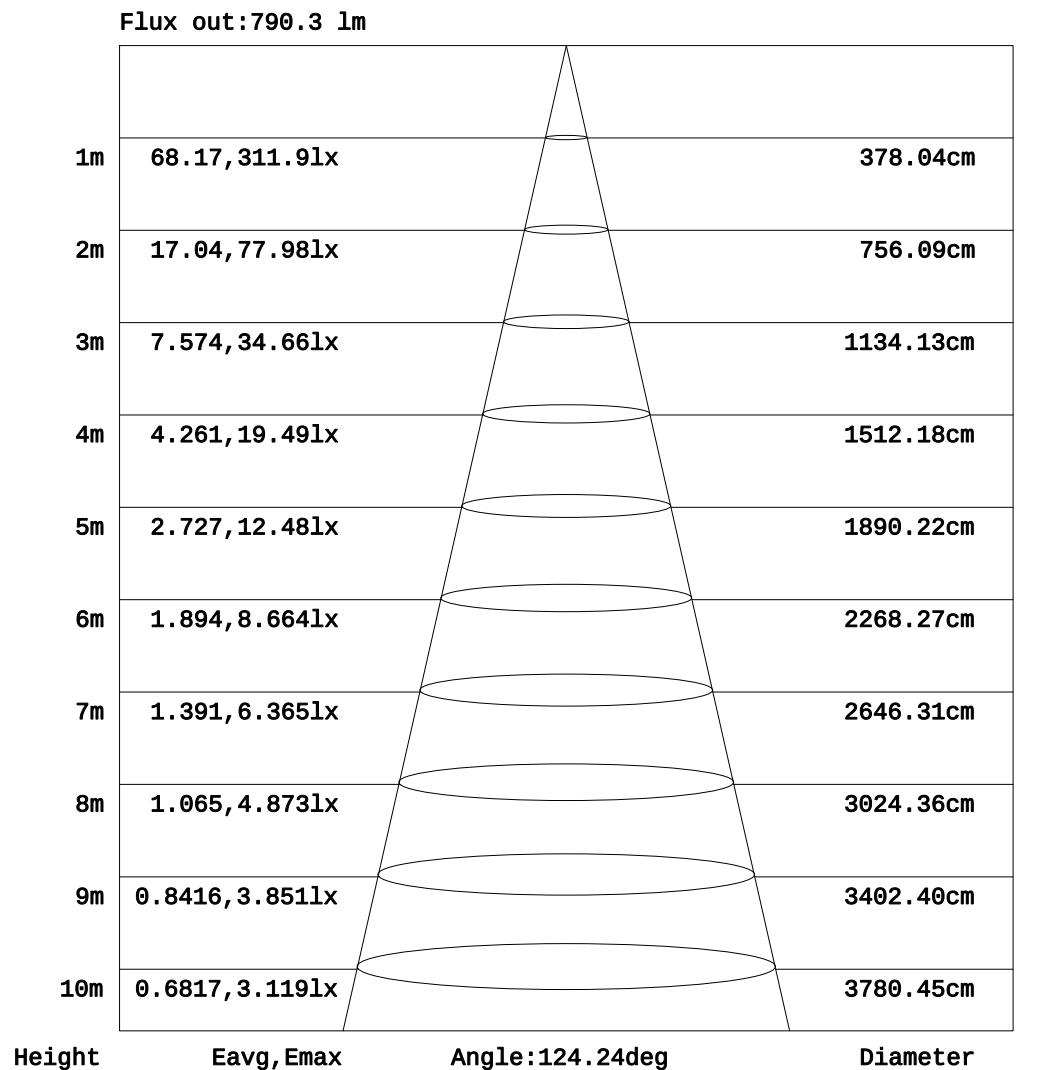
Checker: HXP

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.429
Humidity: 49%
Test Distance: 26.000m [K=1.0000]
Remarks:

Assessor:

AAI Figure

Test:U:230.07V I:0.1034A P:13.792W PF:0.5798 Freq:50.00Hz Lamp Flux:1292.86x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: CDA1a_SM-SVCCDA1a016DR-NNM1200W40	DIM.:	SERIAL No.: A2116000B001
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
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:LSC
 Test Date:2021-11-29

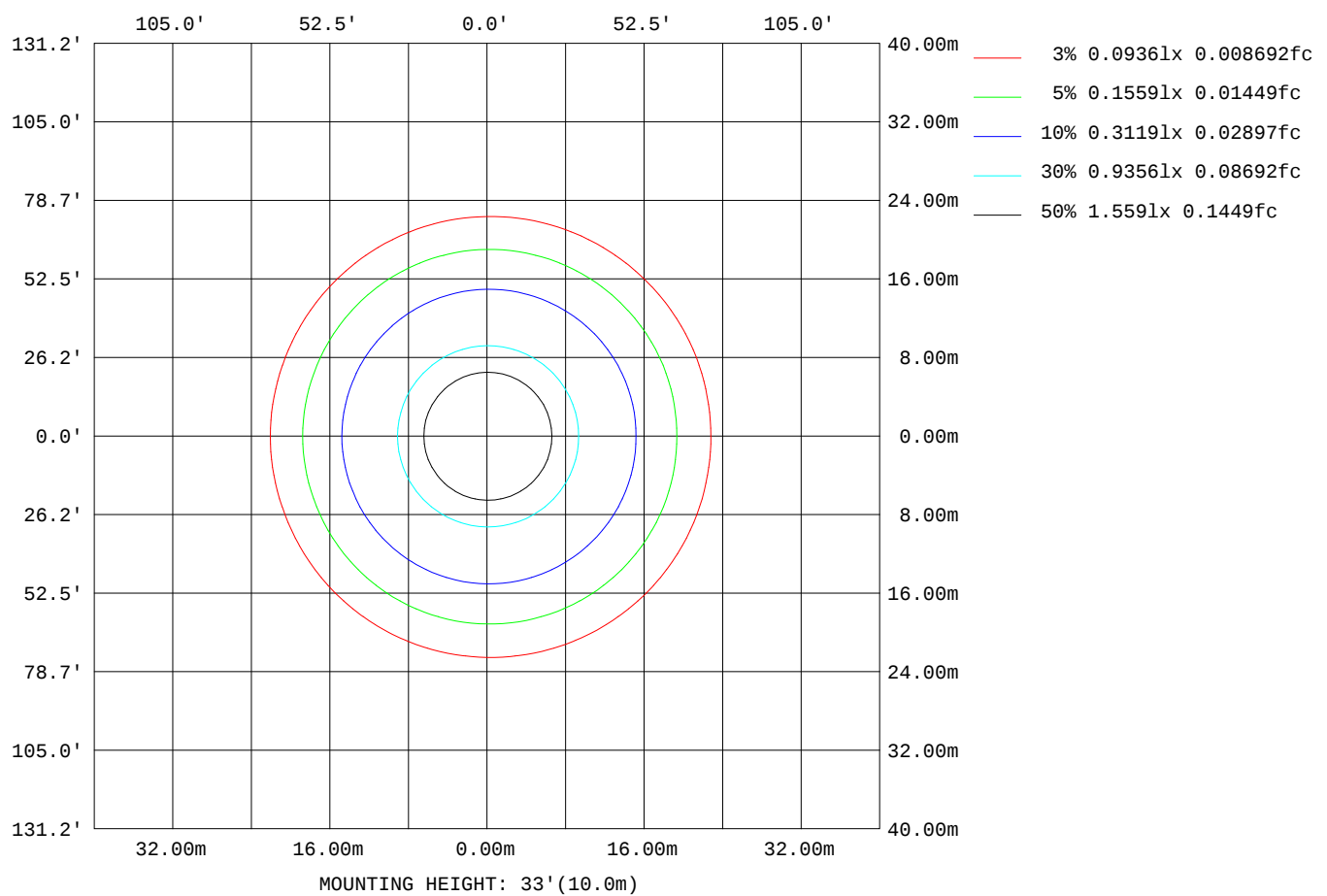
γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.429
 Humidity:49%
 Test Distance:26.000m [K=1.0000]
 Remarks:

Checker: HXP

Assessor:

ISOLUX DIAGRAM

Test:U:230.07V I:0.1034A P:13.792W PF:0.5798 Freq:50.00Hz Lamp Flux:1292.86x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: CDA1a_SM-SVCCDA1a016DR-NNM1200W40	DIM.:	SERIAL No.: A2116000B001
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: LSC
 Test Date: 2021-11-29

Checker: HXP

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.429
 Humidity: 49%
 Test Distance: 26.000m [K=1.0000]
 Remarks:

Assessor:

LED Avg.L Report

Test:U:230.07V I:0.1034A P:13.792W PF:0.5798 Freq:50.00Hz Lamp Flux:1292.86x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: CDA1a_SM-SVCCDA1a016DR-NNM1200W40	DIM.:	SERIAL No.: A2116000B001
MFR.:	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	12054
L_0~180(75)av	13466
L_0~180(85)av	24881
L_90~270(65)av	12101
L_90~270(75)av	13533
L_90~270(85)av	25040
L_45(65)av	12073
L_45(75)av	13503
L_45(85)av	24962

Standard: GB/T 29293-2012

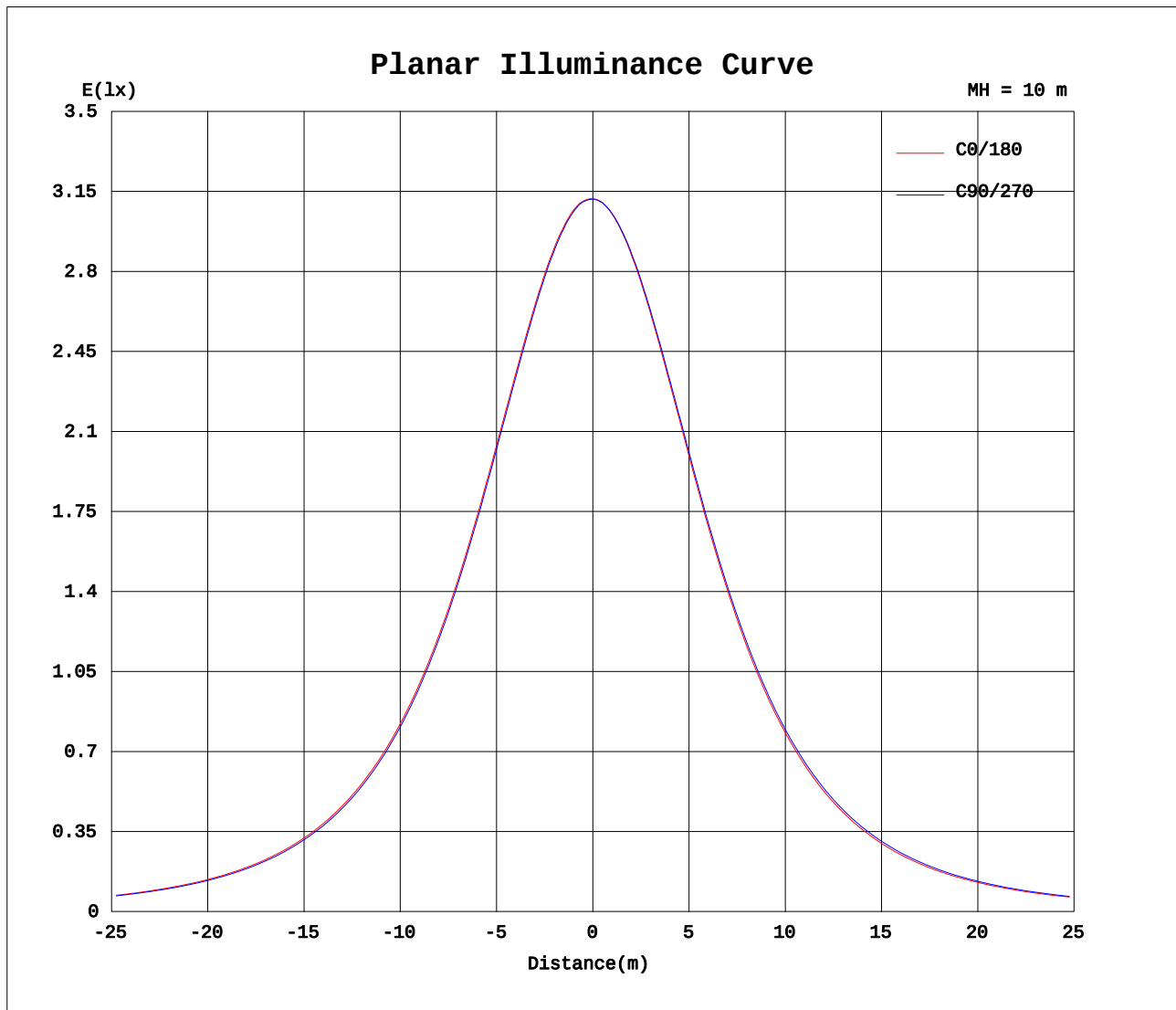
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:LSC
Test Date:2021-11-29

Checker: HXP

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.429
Humidity:49%
Test Distance:26.000m [K=1.0000]
Remarks:

Assessor:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: LSC
Test Date: 2021-11-29

Checker: HXP

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.429
Humidity: 49%
Test Distance: 26.000m [K=1.0000]
Remarks:

Assessor:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.07V I:0.1034A P:13.792W PF:0.5798 Freq:50.00Hz Lamp Flux:1292.86x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: CDA1a_SM-SVCCDA1a016DR-NNM1200W40	DIM.:	SERIAL No.: A2116000B001
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	312	312	312	312	312	312	312	312	312	312	312	312	312	312	312	312			
5	311	312	311	311	311	311	311	310	310	310	310	310	310	310	311	311			
10	309	309	309	308	308	307	307	306	306	306	306	306	307	307	308	308			
15	304	304	304	303	303	302	301	300	300	300	300	301	301	302	303	304			
20	297	297	297	296	295	294	293	292	292	292	292	293	294	295	296	297			
25	288	288	288	287	286	285	283	282	282	282	282	283	284	286	287	288			
30	277	277	277	276	274	273	271	270	270	269	270	271	272	274	275	277			
35	264	264	264	263	261	259	257	256	255	255	256	257	259	260	262	264			
40	249	250	249	248	246	244	241	240	239	239	240	241	243	245	247	249			
45	232	233	232	230	229	226	224	221	221	221	222	223	225	228	230	232			
50	214	215	214	212	210	207	205	202	202	201	202	204	207	209	211	214			
55	194	195	194	192	190	187	184	181	181	180	181	184	186	189	191	194			
60	173	173	172	171	168	165	162	159	158	158	159	162	164	167	170	172			
65	150	151	150	148	145	142	139	136	136	135	136	139	141	144	147	150			
70	127	128	127	125	122	119	116	113	113	112	114	116	119	121	124	127			
75	105	106	105	103	100	97.1	94.0	91.0	90.7	90.5	91.6	93.9	96.4	99.0	102	105			
80	83.8	84.5	83.7	81.7	79.5	76.9	74.3	71.8	71.1	71.0	72.1	74.1	76.2	78.7	80.9	83.5			
85	66.2	66.7	66.0	64.4	62.6	60.7	58.5	56.4	55.4	55.4	56.4	58.1	59.8	61.3	63.1	65.3			
90	52.9	53.3	52.7	51.4	50.1	48.7	47.1	45.7	44.5	44.7	45.6	46.8	47.8	49.0	50.1	51.8			
95	43.8	44.1	43.6	42.7	42.1	41.3	40.2	39.2	37.9	38.0	39.4	39.6	40.2	40.8	41.5	42.6			
100	38.8	39.0	38.9	38.1	37.8	37.4	36.9	36.0	34.7	35.1	35.6	36.1	36.7	36.7	36.9	37.9			
105	36.5	36.7	36.3	35.9	36.0	36.0	35.6	35.1	33.7	33.8	34.5	34.6	34.9	34.8	34.9	35.5			
110	35.7	35.7	35.6	35.3	35.3	35.2	35.0	34.6	33.4	33.5	33.9	34.0	34.3	34.4	34.6	34.7			
115	35.0	35.1	34.9	34.9	34.9	34.9	34.7	34.4	33.6	33.4	33.8	34.1	34.2	34.2	34.2	34.4			
120	35.0	34.9	34.8	34.7	34.7	34.7	34.7	34.4	33.7	33.7	33.8	34.1	34.2	34.2	34.2	34.4			
125	34.8	35.0	34.8	34.7	34.7	34.7	34.7	34.4	34.2	34.2	34.2	34.4	34.5	34.4	34.5	34.6			
130	34.8	35.0	34.8	34.9	34.7	34.7	34.7	34.7	34.7	34.5	34.5	34.7	34.9	34.7	34.9	35.0			
135	35.0	35.0	34.8	34.9	34.8	35.3	35.1	34.9	35.3	35.1	35.0	35.0	35.3	35.2	35.1	35.2			
140	35.6	35.6	35.6	35.5	35.7	35.8	36.0	35.9	36.3	36.2	35.9	35.9	35.6	35.6	35.7	35.7			
145	36.7	36.7	36.7	36.5	37.0	37.5	38.0	38.0	37.9	37.7	37.4	37.2	37.0	36.5	36.6	36.7			
150	37.9	38.0	38.0	38.2	38.0	37.9	38.0	38.0	38.1	38.0	38.0	38.0	38.0	37.5	37.0	37.2			
155	37.3	37.1	37.0	37.1	37.3	37.2	37.1	37.0	36.8	36.8	36.6	36.4	36.6	36.6	36.4	36.8			
160	35.1	35.3	35.1	35.1	35.1	35.0	34.9	34.9	34.6	34.6	34.5	34.5	34.7	34.5	34.6	34.9			
165	33.1	33.3	33.3	33.2	33.1	33.0	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	33.6			
170	30.3	30.4	30.2	30.1	30.1	30.3	30.3	30.1	30.3	30.4	30.3	30.5	30.5	30.6	30.6	30.9			
175	33.5	33.5	33.3	33.2	33.5	33.8	33.8	33.5	32.8	32.2	32.3	32.2	32.6	32.7	32.8	33.0			
180	37.9	37.8	38.0	37.9	38.0	38.1	37.9	38.0	38.0	38.0	38.0	38.0	37.9	38.0	38.0	37.9			

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:LSC
Test Date:2021-11-29

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.429
Humidity:49%
Test Distance:26.000m [K=1.0000]
Remarks:

Checker: HXP

Assessor: