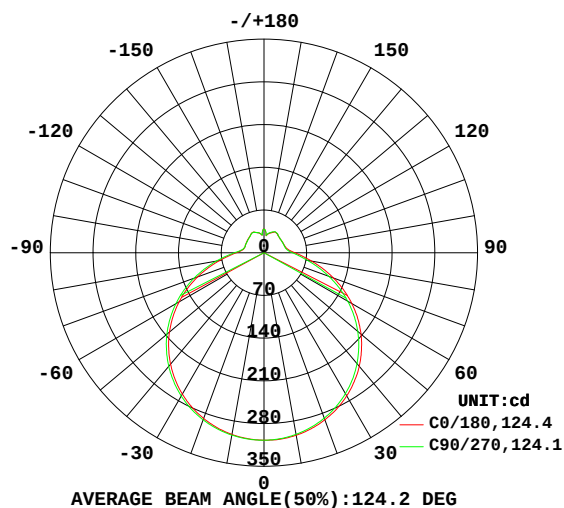


LUMINAIRE PHOTOMETRIC TEST REPORT

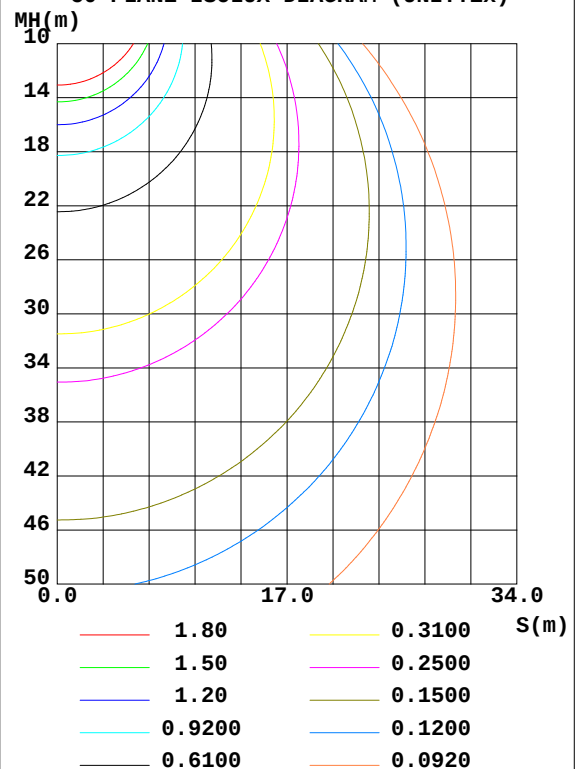
Test:U:229.98V I:0.1018A P:13.614W PF:0.5813 Freq:50.00Hz Lamp Flux:1273.48x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: CDA1a_SM-SVCCDA1a014DR-NNZ1200W40	DIM.:	SERIAL No.: A2116000A001
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 93.54 lm/W
MODEL		Imax(cd)	307.3	S/MH(C0/180)	1.30	
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.31	
RATED VOLTAGE(V)		TOTAL FLUX(lm)	1273.5	η UP, DN(C0-180)	9.1, 40.7	
NOMINAL FLUX(lm)	1273.48	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	8.8, 41.5	
LAMPS INSIDE	1	η up(%)	17.8	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)		η down(%)	82.2	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	303.7	303.0	302.2	302.0	302.4	303.0	303.5	303.7	0- 10	29.12	29.12	2.29, 2.29
20	291.4	289.7	288.4	288.2	289.0	290.0	291.4	292.2	10- 20	84.05	113.2	8.89, 8.89
30	270.9	268.4	266.7	266.6	267.5	268.9	271.1	272.6	20- 30	129.4	242.6	19.1, 19.1
40	242.9	239.1	237.2	237.2	238.2	239.8	243.0	245.0	30- 40	160.0	402.6	31.6, 31.6
50	207.5	202.7	200.6	200.8	202.2	203.9	207.8	210.4	40- 50	172.2	574.8	45.1, 45.1
60	166.1	160.3	158.2	158.8	160.4	162.1	166.4	169.9	50- 60	164.8	739.6	58.1, 58.1
70	121.2	115.1	113.2	114.0	115.6	117.2	121.9	125.4	60- 70	139.1	878.7	69, 69
80	79.18	73.86	72.47	73.25	73.99	74.85	79.48	83.02	70- 80	101.9	980.6	77, 77
90	50.79	47.16	46.75	47.30	45.46	44.84	48.50	52.16	80- 90	66.09	1047	82.2, 82.2
100	38.65	36.96	37.08	37.23	34.50	32.89	35.03	38.03	90-100	44.59	1091	85.7, 85.7
110	35.79	35.09	35.22	35.18	32.89	31.67	32.83	34.72	100-110	36.87	1128	88.6, 88.6
120	35.08	34.70	34.90	34.98	33.40	32.38	33.22	34.40	110-120	33.84	1162	91.2, 91.2
130	35.08	34.77	34.96	35.05	34.44	33.54	34.05	34.98	120-130	30.80	1193	93.7, 93.7
140	36.62	36.56	36.70	36.08	35.93	35.16	35.48	35.88	130-140	27.28	1220	95.8, 95.8
150	38.69	38.89	38.84	38.54	38.31	37.99	37.86	37.89	140-150	23.49	1244	97.6, 97.6
160	34.90	35.73	35.92	35.88	35.40	35.41	35.48	34.79	150-160	17.33	1261	99, 99
170	30.00	30.76	31.14	31.35	31.33	31.42	31.56	31.24	160-170	9.580	1270	99.8, 99.8
180	38.79	38.19	39.10	38.72	38.89	38.18	38.51	38.72	170-180	3.043	1273	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 488.39 lm

%lum = 38.4%

%lamp = 38.4%

Conical surface Flux(120deg): 739.57 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

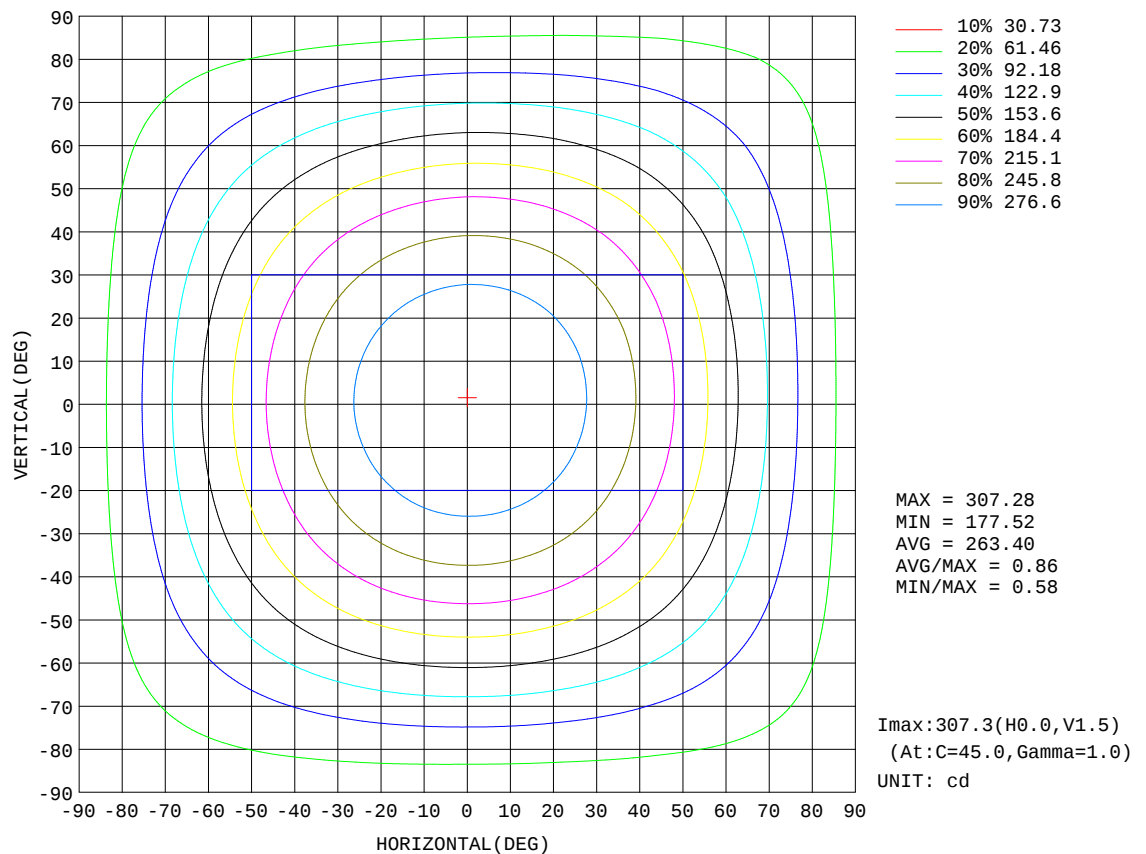
Checker: HXP

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:

ISOCANDELA DIAGRAM

Test:U:229.98V I:0.1018A P:13.614W PF:0.5813 Freq:50.00Hz Lamp Flux:1273.48x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: CDA1a_SM-SVCCDA1a014DR-NNZ1200W40	DIM.:	SERIAL No.: A2116000A001
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

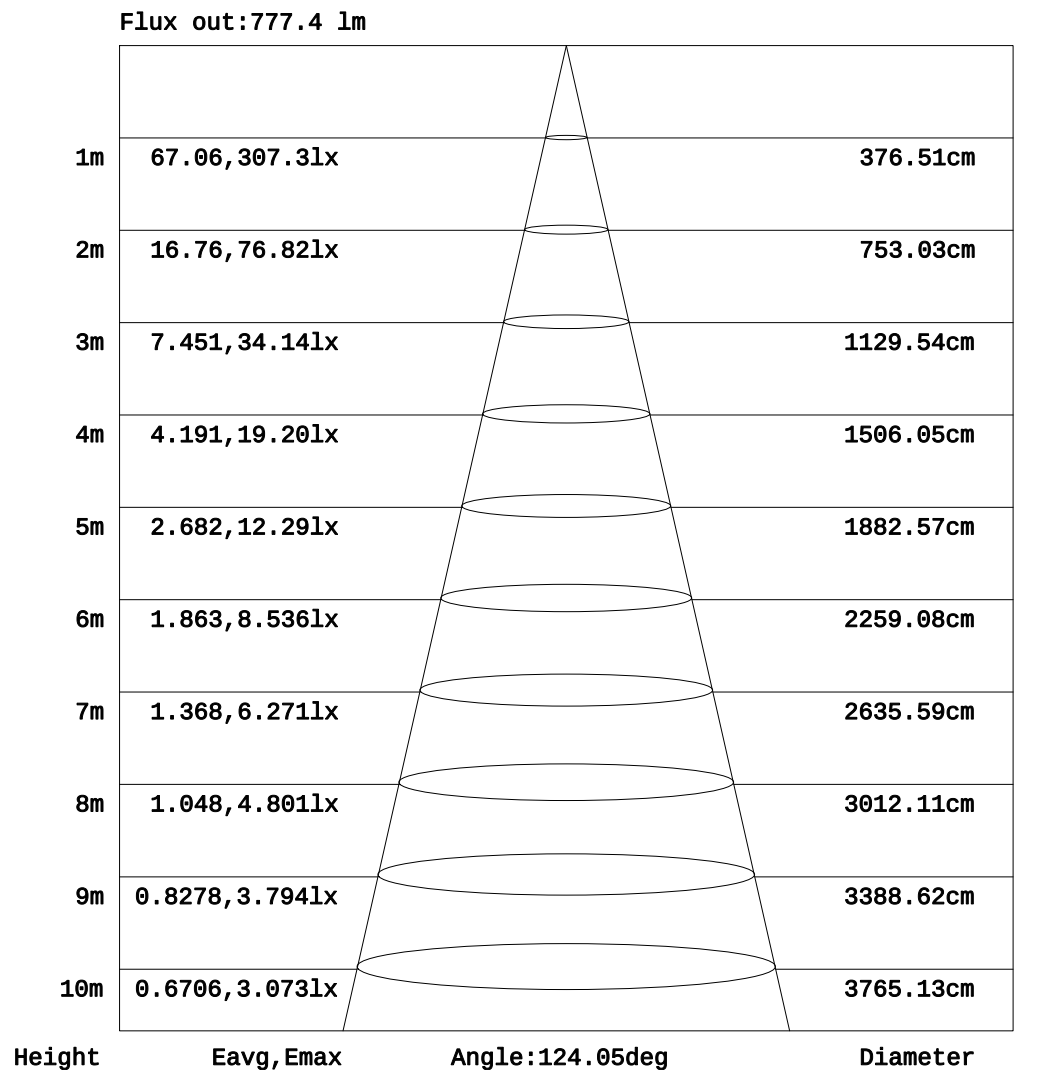
Checker: HXP

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:229.98V I:0.1018A P:13.614W PF:0.5813 Freq:50.00Hz Lamp Flux:1273.48x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: CDA1a_SM-SVCCDA1a014DR-NNZ1200W40	DIM.:	SERIAL No.: A2116000A001
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

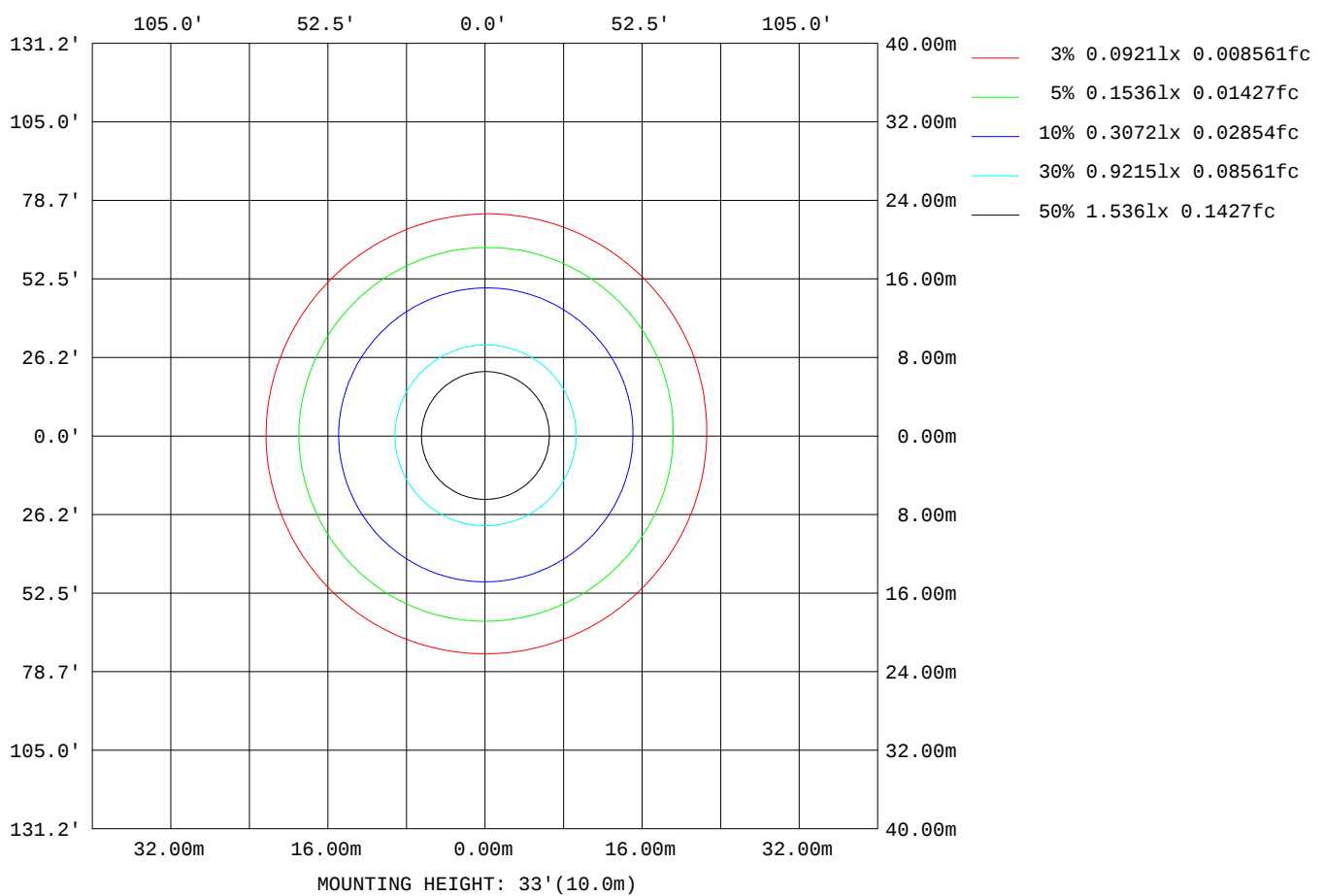
γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.429
 Humidity:49%
 Test Distance:26.000m [K=1.0000]
 Remarks:

Checker: HXP

Assessor:

ISOLUX DIAGRAM

Test:U:229.98V I:0.1018A P:13.614W PF:0.5813 Freq:50.00Hz Lamp Flux:1273.48x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: CDA1a_SM-SVCCDA1a014DR-NNZ1200W40	DIM.:	SERIAL No.: A2116000A001
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:229.98V I:0.1018A P:13.614W PF:0.5813 Freq:50.00Hz Lamp Flux:1273.48x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: CDA1a_SM-SVCCDA1a014DR-NNZ1200W40	DIM.:	SERIAL No.: A2116000A001
MFR.:	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	11899
L_0~180(75)av	13292
L_0~180(85)av	24600
L_90~270(65)av	11826
L_90~270(75)av	13186
L_90~270(85)av	24375
L_45(65)av	11859
L_45(75)av	13229
L_45(85)av	24490

Standard: GB/T 29293-2012

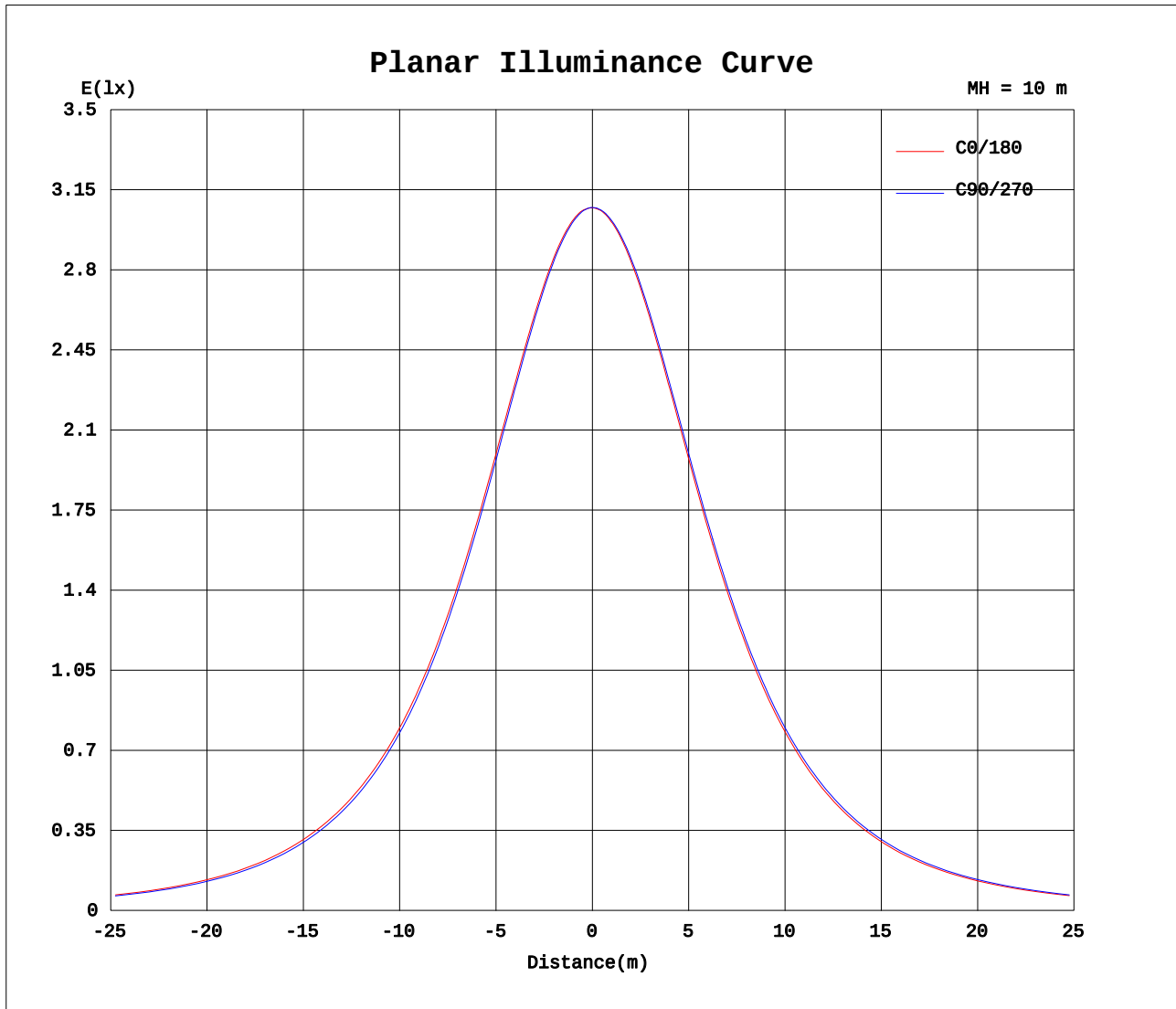
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:LSC
 Test Date:2021-11-29

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:229.98V I:0.1018A P:13.614W PF:0.5813 Freq:50.00Hz Lamp Flux:1273.48x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: CDA1a_SM-SVCCDA1a014DR-NNZ1200W40	DIM.:	SERIAL No.: A2116000A001
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	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307			
5	307	306	306	306	306	306	306	306	306	306	306	306	306	306	307	306			
10	304	303	303	303	302	302	302	302	302	303	303	303	303	304	304	304			
15	299	298	297	297	296	296	296	296	297	297	298	298	298	299	299	299			
20	291	291	290	289	288	288	288	288	289	289	290	291	291	292	292	292			
25	282	281	280	279	279	279	278	279	279	280	281	281	282	283	284	283			
30	271	270	268	267	267	267	267	267	268	268	269	270	271	272	273	272			
35	258	256	255	254	253	253	253	253	254	254	255	256	258	259	260	259			
40	243	241	239	238	237	237	237	237	238	239	240	241	243	244	245	245			
45	226	224	221	220	220	220	220	220	221	221	223	224	226	228	228	228			
50	207	205	203	201	201	201	201	201	202	203	204	206	208	210	210	210			
55	188	185	182	181	180	181	181	181	182	182	184	185	188	190	191	190			
60	166	163	160	159	158	159	159	159	160	161	162	164	166	169	170	169			
65	144	141	138	136	136	136	136	137	138	139	140	142	145	147	148	147			
70	121	118	115	114	113	114	114	114	116	116	117	119	122	124	125	125			
75	99.1	95.9	93.3	91.9	91.5	92.1	92.3	92.4	93.8	94.1	95.0	97.1	99.9	102	103	103			
80	79.2	76.4	73.9	72.7	72.5	73.1	73.3	73.2	74.0	73.9	74.9	76.7	79.5	81.8	83.0	82.4			
85	62.9	60.3	58.3	57.4	57.4	58.0	58.1	57.7	57.4	57.1	57.6	59.2	61.7	64.0	65.4	65.1			
90	50.8	48.7	47.2	46.6	46.7	47.3	47.3	46.7	45.5	44.8	44.8	46.2	48.5	51.0	52.2	52.1			
95	42.9	41.3	40.3	39.9	40.2	40.7	40.6	39.9	38.1	37.0	36.8	37.8	39.7	41.8	43.1	43.2			
100	38.6	37.7	37.0	36.8	37.1	37.4	37.2	36.6	34.5	33.5	32.9	33.5	35.0	36.7	38.0	38.3			
105	36.6	35.9	35.4	35.3	35.7	35.9	35.6	35.1	33.1	32.0	31.6	31.9	33.5	34.6	35.8	36.1			
110	35.8	35.3	35.1	35.0	35.2	35.4	35.2	34.7	32.9	31.9	31.7	31.7	32.8	33.9	34.7	35.0			
115	35.2	35.0	34.7	34.8	34.9	35.1	35.0	34.5	33.2	32.0	32.1	32.2	33.0	33.8	34.5	34.8			
120	35.1	34.9	34.7	34.8	34.9	35.1	35.0	34.5	33.4	32.7	32.4	32.5	33.2	33.8	34.4	34.9			
125	35.1	34.9	34.7	34.8	34.9	35.1	35.0	34.7	33.9	33.2	32.9	33.0	33.3	34.0	34.5	34.9			
130	35.1	34.9	34.8	34.8	35.0	35.1	35.0	34.9	34.4	33.8	33.5	33.6	34.1	34.5	35.0	35.3			
135	35.7	35.6	35.6	35.7	35.7	35.6	35.6	35.6	35.0	34.6	34.3	34.4	34.6	35.1	35.3	35.6			
140	36.6	36.7	36.6	36.6	36.7	36.5	36.1	36.2	35.9	35.4	35.2	35.2	35.5	35.7	35.9	36.3			
145	37.9	38.0	38.0	38.0	38.2	38.0	38.0	37.9	37.4	36.9	36.8	36.8	37.1	37.2	37.4	37.8			
150	38.7	38.8	38.9	38.9	38.8	38.8	38.5	38.7	38.3	38.0	38.0	37.9	37.9	37.9	37.9	37.8			
155	37.3	37.5	37.9	38.1	38.1	37.9	37.8	38.1	37.8	37.8	37.5	37.0	37.0	36.9	36.7	36.7			
160	34.9	35.5	35.7	35.9	35.9	36.0	35.9	36.2	35.4	35.5	35.4	35.5	35.5	34.9	34.8	34.7			
165	32.9	33.7	34.0	34.0	33.8	33.7	33.8	34.1	33.9	33.9	34.0	34.0	33.9	33.7	33.2	33.1			
170	30.0	30.6	30.8	31.0	31.1	31.2	31.4	31.7	31.3	31.3	31.4	31.7	31.6	31.4	31.2	30.7			
175	34.1	34.2	34.3	34.6	35.0	35.4	35.5	34.8	33.2	32.5	32.1	32.2	32.1	32.5	33.0	33.7			
180	38.8	38.2	38.2	38.7	39.1	38.7	38.7	38.9	38.9	38.6	38.2	38.1	38.5	38.8	38.7	38.7			

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: