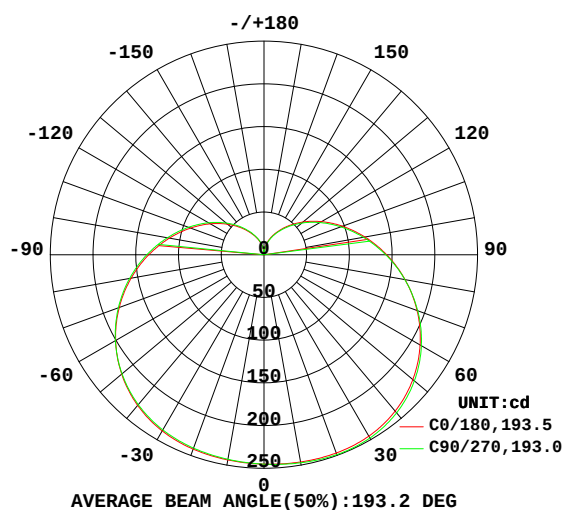


LUMINAIRE PHOTOMETRIC TEST REPORT

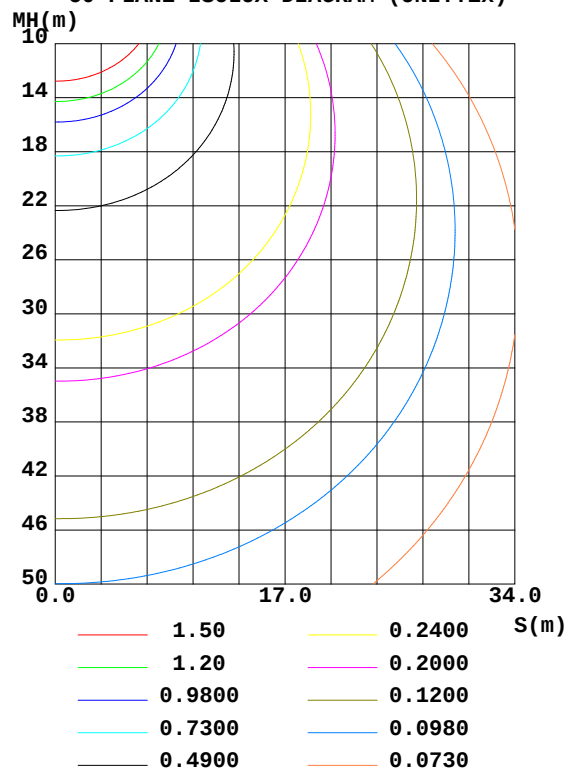
Test:U:230.06V I:0.0638A P:13.440W PF:0.9157 Freq:50.00Hz Lamp Flux:1743.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: A10a_10aSA-A1521ST-Q1D-02_1521lm_13.6W	DIM.:	SERIAL No.: A2114246B001
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 129.72 lm/W			
MODEL		Imax(cd)	249.6	S/MH(C0/180)	1.47
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.46
RATED VOLTAGE(V)		TOTAL FLUX(lm)	1743.4	η UP, DN(C0-180)	13.7, 37.2
NOMINAL FLUX(lm)	1743.4	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	13.4, 35.7
LAMPS INSIDE	1	η up(%)	27.1	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)		η down(%)	72.9	CIBSE SHR MAX	1.75

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.9DEG
Operators: CWR
Test Date: 2021-10-26

Checker: HXP

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.429
Humidity: 50%
Test Distance: 1.528m [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	246.3	247.5	247.3	245.7	243.9	242.8	243.1	244.6	0- 10	23.40	23.40	1.34,1.34
20	246.9	249.2	248.9	246.0	242.2	239.9	240.9	243.7	10- 20	69.45	92.85	5.33,5.33
30	245.2	248.2	247.8	243.9	238.2	235.2	236.8	240.7	20- 30	112.7	205.6	11.8,11.8
40	238.9	242.2	241.5	237.1	230.1	226.8	229.0	233.6	30- 40	150.0	355.5	20.4,20.4
50	227.4	230.5	229.7	225.2	217.4	214.2	216.9	221.9	40- 50	177.5	533.0	30.6,30.6
60	210.9	213.7	212.7	208.4	200.5	197.7	200.8	205.7	50- 60	192.7	725.7	41.6,41.6
70	190.6	192.6	191.4	187.7	180.3	178.0	181.4	185.9	60- 70	194.8	920.5	52.8,52.8
80	167.6	168.7	167.4	164.4	157.9	156.2	159.7	163.8	70- 80	184.8	1105	63.4,63.4
90	143.6	143.9	142.5	140.2	134.9	133.8	137.1	140.7	80- 90	165.2	1271	72.9,72.9
100	120.0	119.6	118.3	116.6	112.5	112.0	115.0	117.9	90-100	139.7	1410	80.9,80.9
110	97.85	97.06	95.73	94.62	91.54	91.43	94.08	96.41	100-110	111.7	1522	87.3,87.3
120	77.71	76.79	75.52	74.83	72.63	72.77	75.00	76.85	110-120	84.38	1606	92.1,92.1
130	59.80	58.88	57.78	57.33	55.71	56.00	57.85	59.24	120-130	59.70	1666	95.6,95.6
140	44.13	43.28	42.36	42.11	40.98	41.31	42.79	43.76	130-140	38.91	1705	97.8,97.8
150	30.84	30.09	29.43	29.28	28.54	28.79	29.85	30.52	140-150	22.74	1728	99.1,99.1
160	19.91	19.23	18.43	18.68	18.38	18.66	19.40	19.67	150-160	11.35	1739	99.7,99.7
170	8.873	7.917	7.174	7.434	8.348	8.760	9.307	8.850	160-170	4.107	1743	100,100
180	0.3889	0.3906	0.3893	0.3874	0.3890	0.3897	0.3888	0.3892	170-180	0.3196	1743	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 441.56 lm

%lum = 25.3%

%lamp = 25.3%

Conical surface Flux(120deg): 725.71 lm

%lum = 41.6%

%lamp = 41.6%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:CWR
 Test Date:2021-10-26

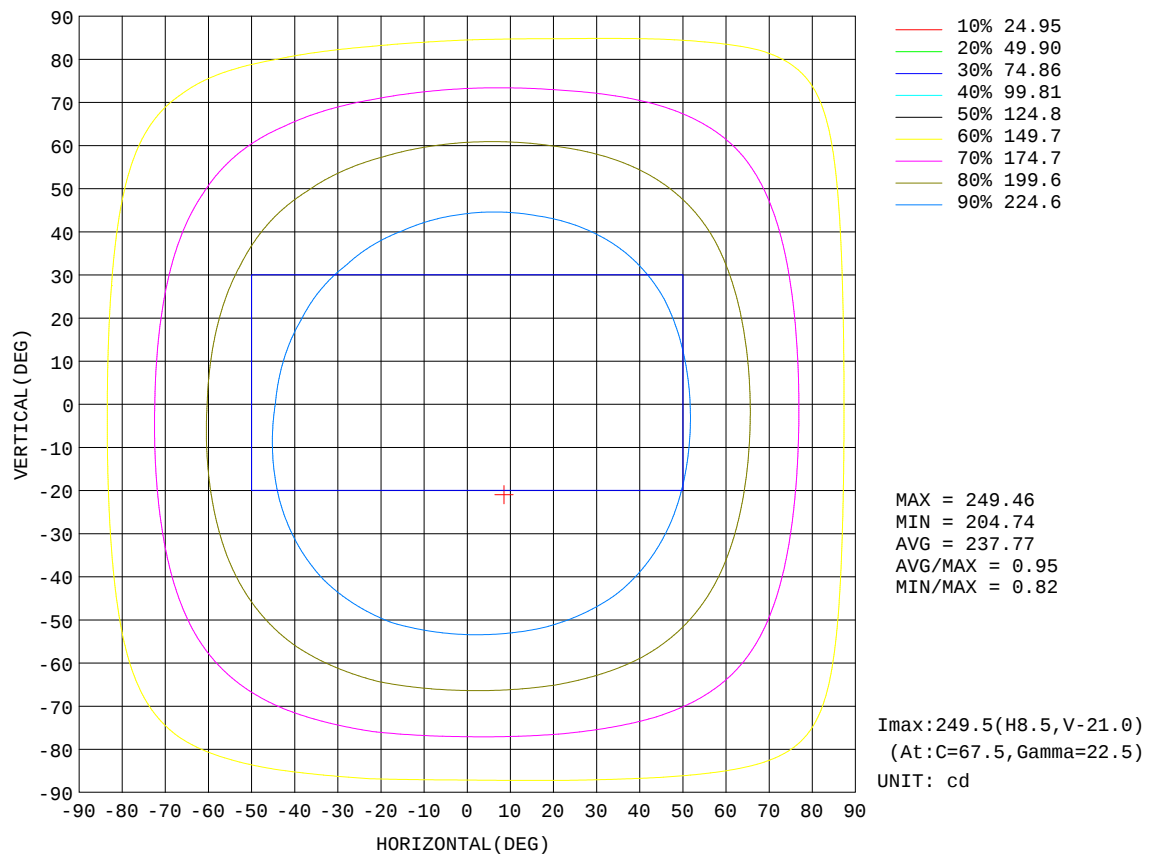
Checker: HXP

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.429
 Humidity:50%
 Test Distance:1.528m [K=1.0000]
 Remarks:

Assessor:

ISOCANDELA DIAGRAM

Test:U:230.06V I:0.0638A P:13.440W PF:0.9157 Freq:50.00Hz Lamp Flux:1743.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: A10a_10aSA-A1521ST-Q1D-02_1521lm_13.6W	DIM.:	SERIAL No.: A2114246B001
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:CWR
Test Date:2021-10-26

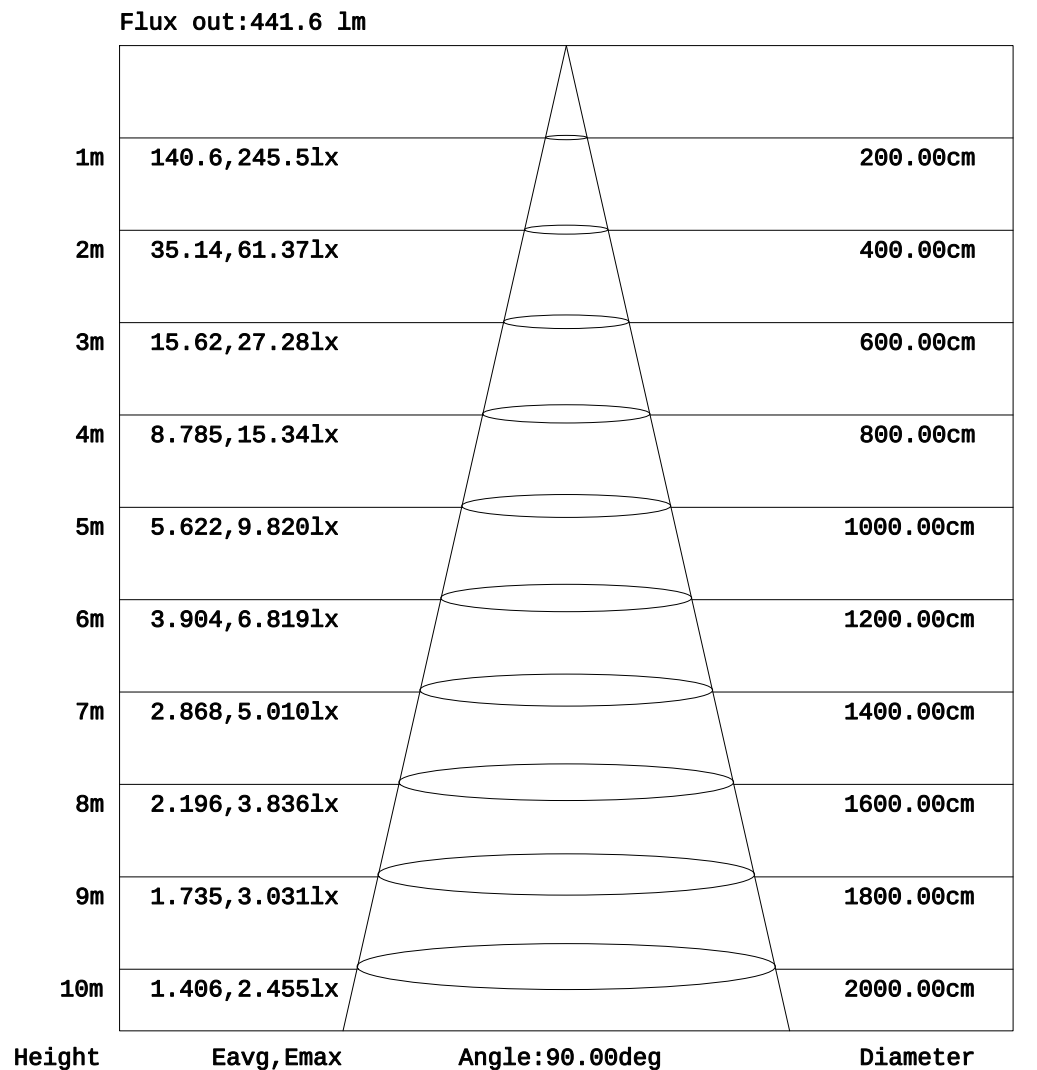
Checker: HXP

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.429
Humidity:50%
Test Distance:1.528m [K=1.0000]
Remarks:

Assessor:

AAI Figure

Test:U:230.06V I:0.0638A P:13.440W PF:0.9157 Freq:50.00Hz Lamp Flux:1743.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: A10a_10aSA-A1521ST-Q1D-02_1521lm_13.6W	DIM.:	SERIAL No.: A2114246B001
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: 24.9DEG
 Operators: CWR
 Test Date: 2021-10-26

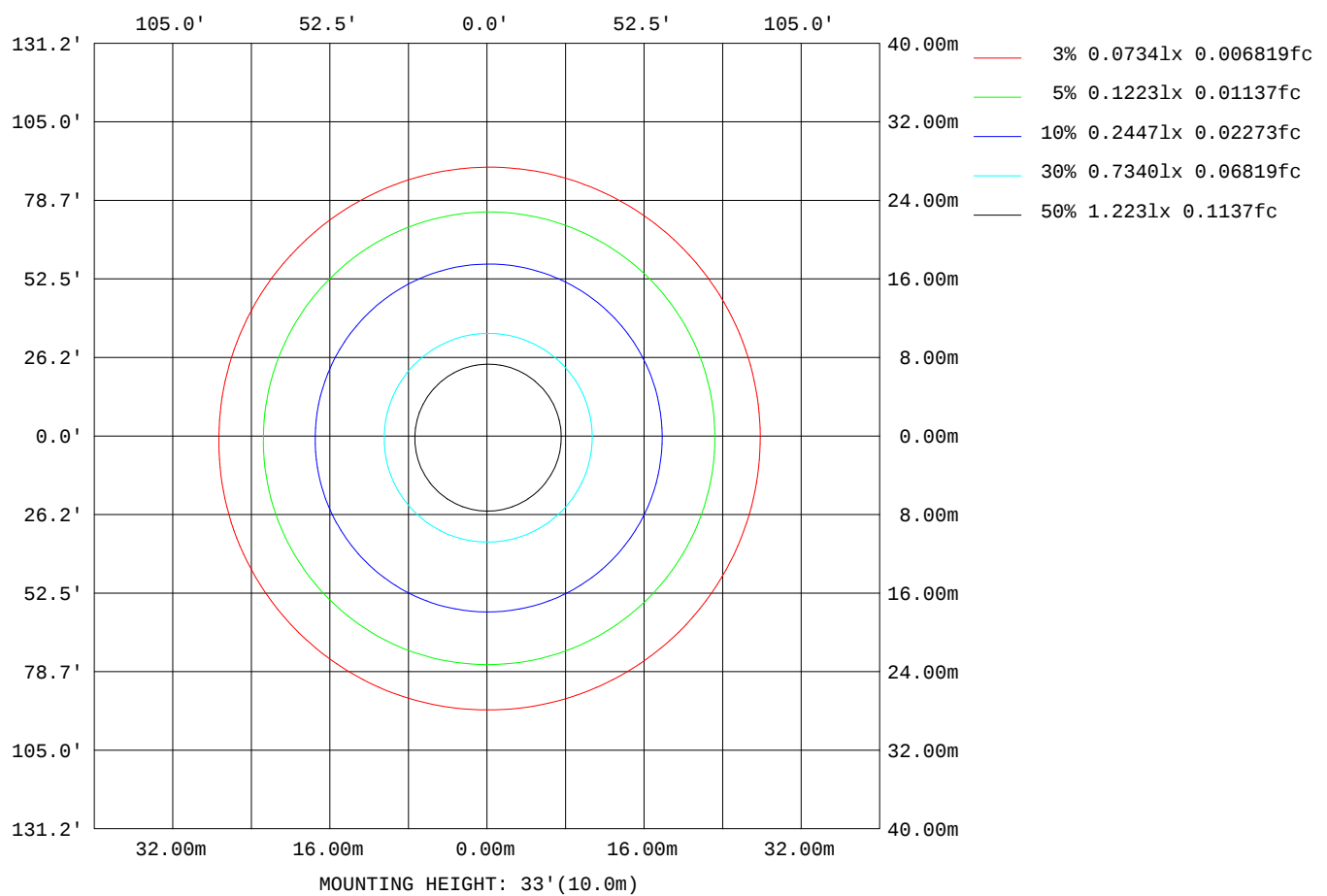
γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.429
 Humidity: 50%
 Test Distance: 1.528m [K=1.0000]
 Remarks:

Checker: HXP

Assessor:

ISOLUX DIAGRAM

Test:U:230.06V I:0.0638A P:13.440W PF:0.9157 Freq:50.00Hz Lamp Flux:1743.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: A10a_10aSA-A1521ST-Q1D-02_1521lm_13.6W	DIM.:	SERIAL No.: A2114246B001
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.9DEG
 Operators: CWR
 Test Date: 2021-10-26

Checker: HXP

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.429
 Humidity: 50%
 Test Distance: 1.528m [K=1.0000]
 Remarks:

Assessor:

LED Avg.L Report

Test:U:230.06V I:0.0638A P:13.440W PF:0.9157 Freq:50.00Hz Lamp Flux:1743.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: A10a_10aSA-A1521ST-Q1D-02_1521lm_13.6W	DIM.:	SERIAL No.: A2114246B001
MFR.:	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	16536
L_0~180(75)av	24017
L_0~180(85)av	61787
L_90~270(65)av	16620
L_90~270(75)av	24137
L_90~270(85)av	62066
L_45(65)av	16588
L_45(75)av	24095
L_45(85)av	61979

Standard: GB/T 29293-2012

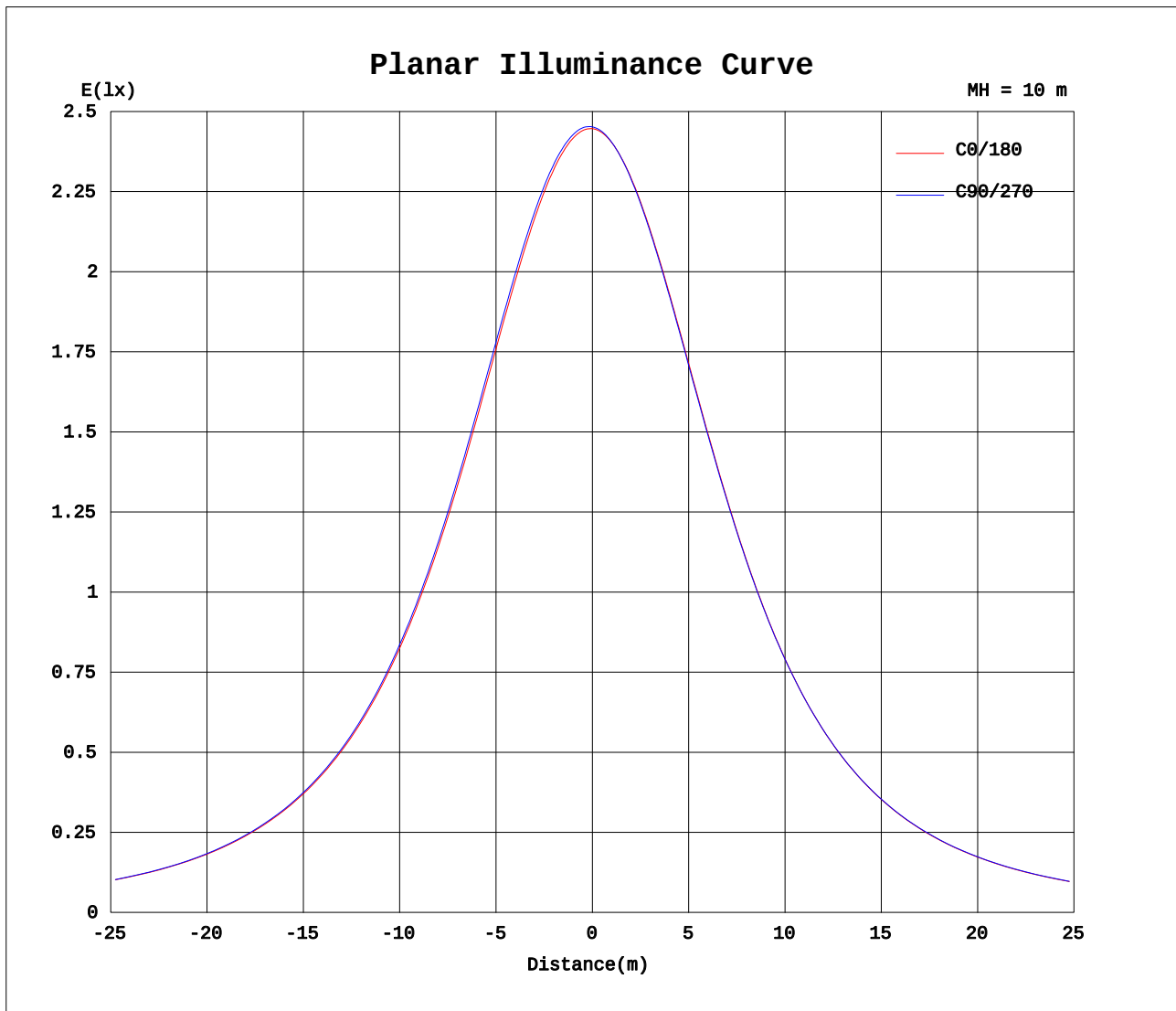
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:CWR
 Test Date:2021-10-26

Checker: HXP

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.429
 Humidity:50%
 Test Distance:1.528m [K=1.0000]
 Remarks:

Assessor:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.9DEG
Operators: CWR
Test Date: 2021-10-26

Checker: HXP

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.429
Humidity: 50%
Test Distance: 1.528m [K=1.0000]
Remarks:

Assessor:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.06V I:0.0638A P:13.440W PF:0.9157 Freq:50.00Hz Lamp Flux:1743.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: A10a_10aSA-A1521ST-Q1D-02_1521lm_13.6W	DIM.:	SERIAL No.: A2114246B001
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	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245	245			
5	246	246	246	246	246	246	245	245	244	244	244	244	244	244	245	245			
10	246	247	247	248	247	247	246	245	244	243	243	243	243	244	245	245			
15	247	248	249	249	248	247	246	245	243	242	241	241	242	243	244	246			
20	247	248	249	249	249	248	246	244	242	241	240	240	241	242	244	245			
25	247	248	249	249	249	248	245	243	241	239	238	238	239	241	243	245			
30	245	247	248	248	248	246	244	241	238	236	235	235	237	238	241	243			
35	243	245	246	246	245	244	241	238	235	232	231	232	233	235	238	240			
40	239	241	242	242	242	240	237	234	230	228	227	227	229	231	234	236			
45	234	236	237	237	236	235	232	228	224	222	221	222	223	225	228	231			
50	227	229	231	231	230	228	225	221	217	215	214	215	217	219	222	225			
55	220	222	223	223	222	221	217	213	209	207	206	207	209	211	214	217			
60	211	213	214	214	213	212	208	204	201	198	198	199	201	203	206	209			
65	201	203	204	204	202	202	198	195	191	189	188	189	191	193	196	199			
70	191	192	193	192	191	191	188	184	180	178	178	179	181	183	186	188			
75	179	180	181	181	180	179	176	173	169	167	167	169	171	172	175	177			
80	168	168	169	168	167	167	164	161	158	156	156	158	160	161	164	166			
85	156	156	156	156	155	155	152	149	146	145	145	146	148	150	152	154			
90	144	144	144	143	143	142	140	138	135	134	134	135	137	138	141	142			
95	132	132	132	131	130	130	128	126	124	123	123	124	126	127	129	131			
100	120	120	120	119	118	118	117	115	112	112	112	113	115	116	118	119			
105	109	108	108	107	107	107	105	104	102	101	101	103	104	105	107	108			
110	97.8	97.5	97.1	96.4	95.7	95.9	94.6	93.1	91.5	91.1	91.4	92.5	94.1	94.9	96.4	97.4			
115	87.5	87.1	86.7	86.0	85.3	85.5	84.4	83.2	81.8	81.5	81.8	82.9	84.3	85.0	86.3	87.2			
120	77.7	77.3	76.8	76.2	75.5	75.8	74.8	73.7	72.6	72.4	72.8	73.7	75.0	75.6	76.8	77.5			
125	68.5	68.0	67.6	67.0	66.4	66.6	65.8	64.9	63.9	63.8	64.1	65.0	66.2	66.7	67.8	68.3			
130	59.8	59.4	58.9	58.3	57.8	58.0	57.3	56.5	55.7	55.7	56.0	56.8	57.9	58.3	59.2	59.7			
135	51.7	51.2	50.8	50.3	49.8	50.0	49.4	48.8	48.0	48.1	48.4	49.1	50.0	50.4	51.2	51.6			
140	44.1	43.7	43.3	42.8	42.4	42.6	42.1	41.6	41.0	41.0	41.3	42.0	42.8	43.0	43.8	44.0			
145	37.2	36.7	36.4	36.0	35.6	35.8	35.4	35.0	34.4	34.5	34.8	35.3	36.0	36.2	36.8	37.1			
150	30.8	30.5	30.1	29.8	29.4	29.6	29.3	29.0	28.5	28.6	28.8	29.2	29.8	30.0	30.5	30.7			
155	25.1	24.8	24.4	24.1	23.8	24.1	23.8	23.6	23.2	23.3	23.4	23.8	24.3	24.4	24.8	25.0			
160	19.9	19.5	19.2	18.9	18.4	18.9	18.7	18.6	18.4	18.5	18.7	19.0	19.4	19.4	19.7	19.8			
165	14.8	14.2	14.0	13.7	12.9	13.8	13.5	13.4	13.6	13.7	14.0	14.3	14.6	14.5	14.6	14.8			
170	8.87	8.19	7.92	7.11	7.17	6.70	7.43	7.38	8.35	8.31	8.76	9.12	9.31	9.09	8.85	9.03			
175	0.42	0.42	0.42	0.41	0.40	0.40	0.40	0.40	0.35	0.35	0.35	0.39	0.44	0.35	0.36	0.36			
180	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39			

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:CWR
Test Date:2021-10-26

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.429
Humidity:50%
Test Distance:1.528m [K=1.0000]
Remarks:

Checker: HXP

Assessor: