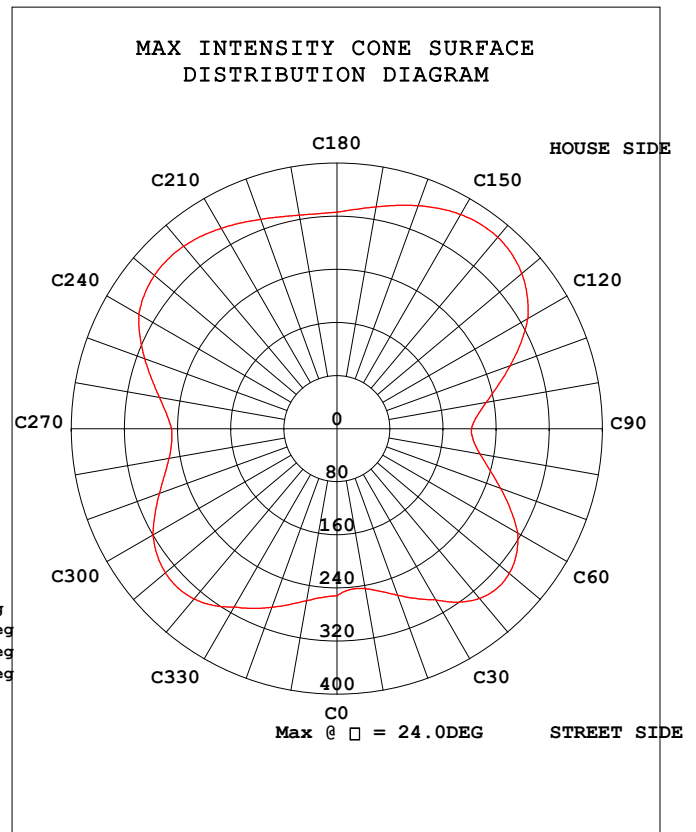
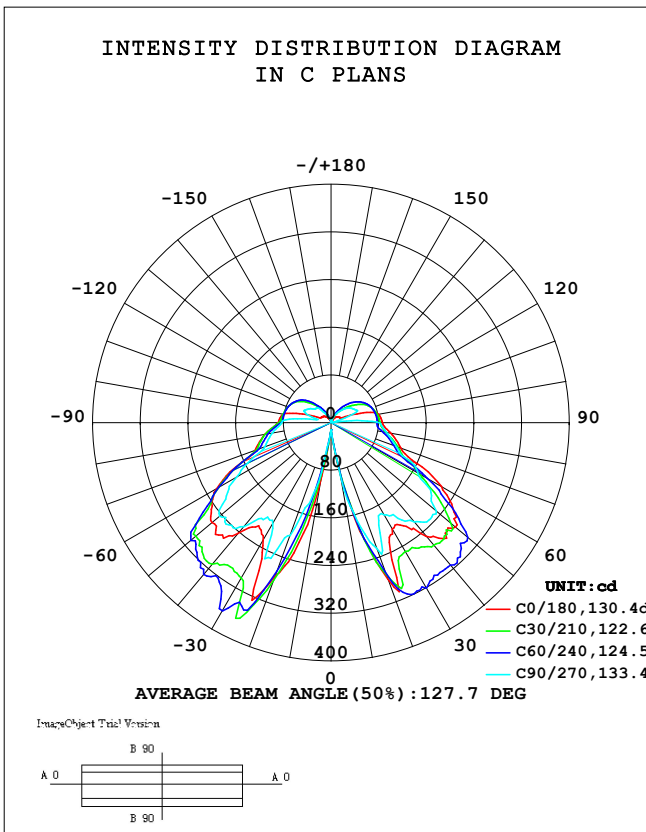


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:221.2V I:0.0940A P:19.90W PF:0.9570 Lamp Flux:1480.6x1 lm		
NAME: BOLEDA CONUS	TYPE:Bollard	WEIGHT:
DIM.:	SPEC.:20W	SERIAL No.:
MFR.: LUMENA LIGHTS LTD	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 74.40 lm/W
MODEL	BA	Imax(cd)	372.6	<input type="checkbox"/> street_up(%)	11.6	
NOMINAL POWER(W)	20	LOR(%)	100.0	<input type="checkbox"/> street_down(%)	44.0	
RATED VOLTAGE(V)	222	TOTAL FLUX(lm)	1481	<input type="checkbox"/> house_up(%)	9.3	
NOMINAL FLUX(lm)	1480.6	MAXIMUM @ (C, <input type="checkbox"/>)	150,24.0	<input type="checkbox"/> house_down(%)	35.2	
LAMPS INSIDE	1	<input type="checkbox"/> up(%)	20.9	76 FLASHAREA(m2)		
TEST VOLTAGE(V)	221.3	<input type="checkbox"/> down(%)	79.1	SLI		



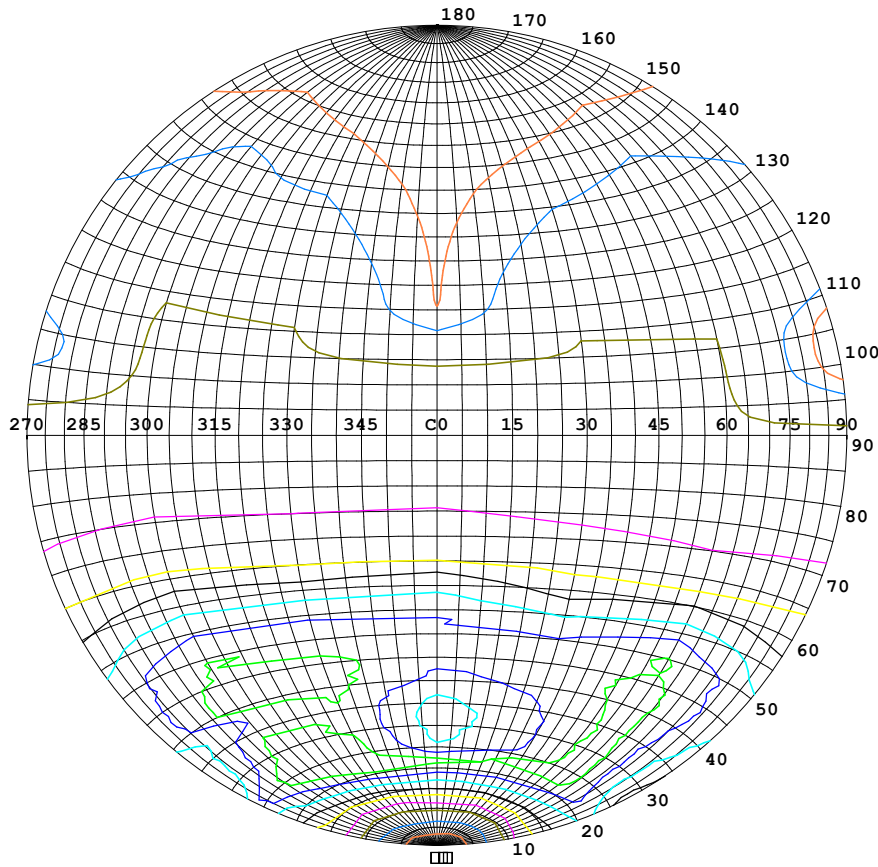
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:sun
 Test Date:2022-05-19

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.274
 Humidity:65.0%
 Test Distance:7.475m [K=1.0000]
 Remarks:

Note: SLI:Specific Luminaire Index

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:221.2V I:0.0940A P:19.90W PF:0.9570 Lamp Flux:1480.6x1 lm		
NAME: BOLEDA CONUS	TYPE:Bollard	WEIGHT:
DIM.:	SPEC.:20W	SERIAL No.:
MFR.: LUMENA LIGHTS LTD	SUR.:	PROTECTION ANGLE:



Classification:

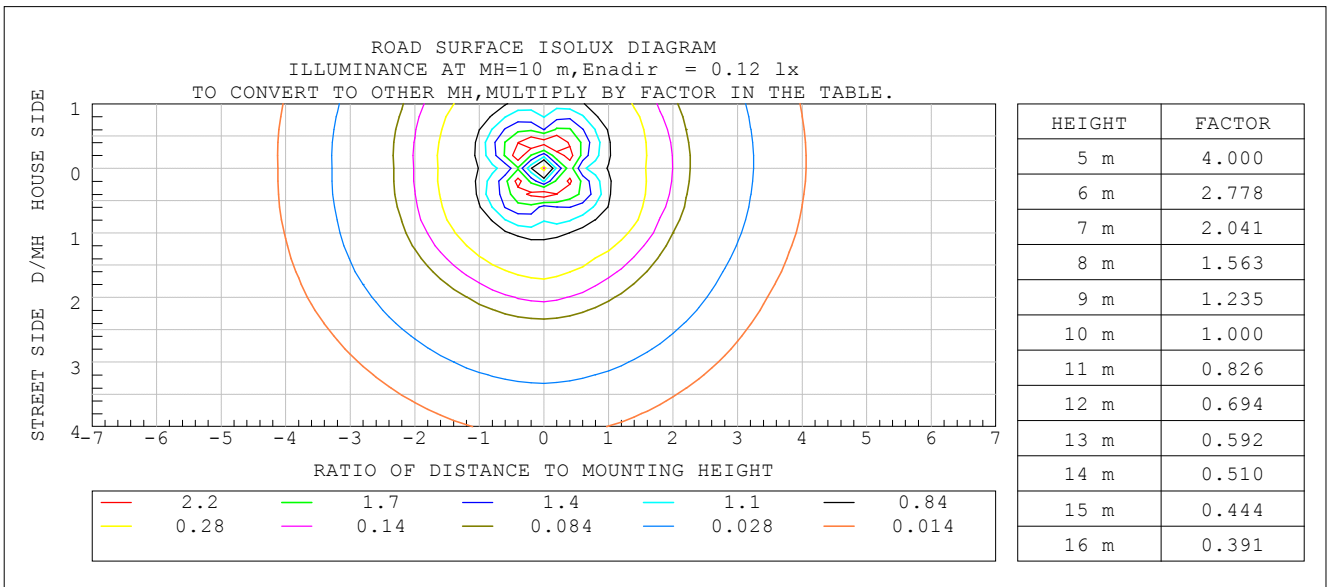
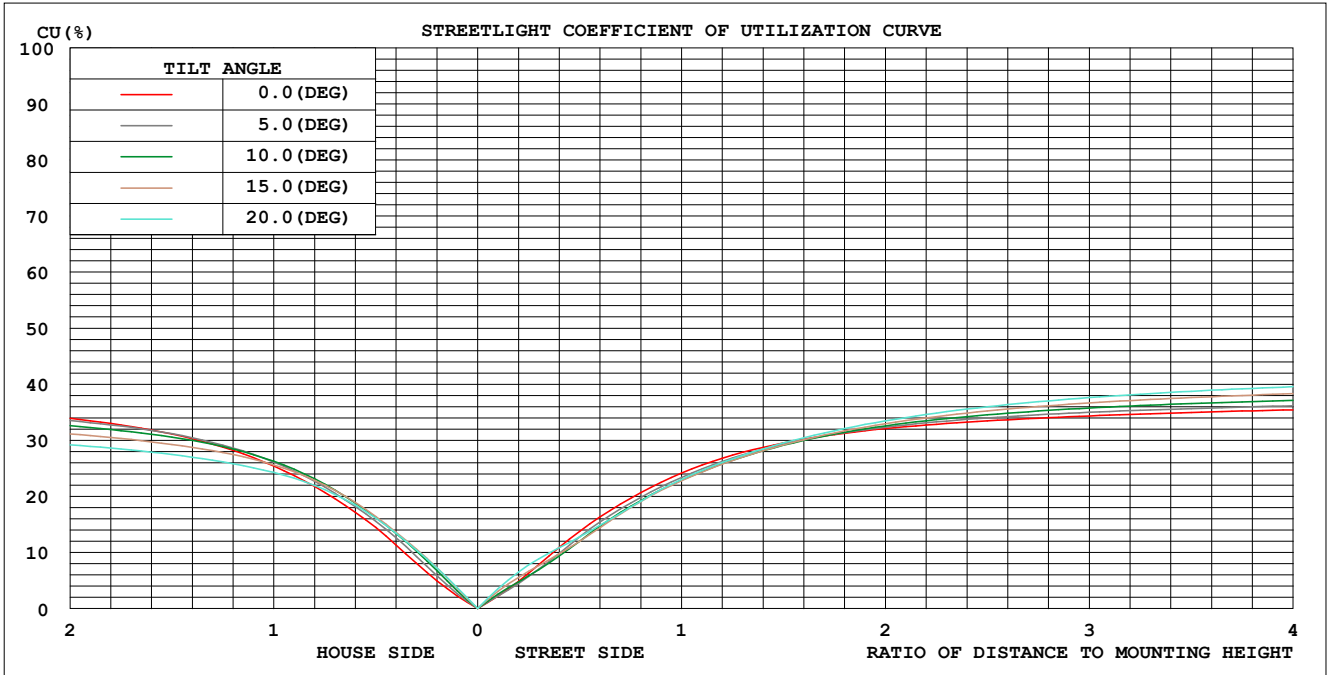
IES:Type III - Very Short
 CIE:Narrow - Short
 IES:None cut-off
 CIE:Non-cut-off
 Max.At80:76.02cd/klm
 Max.At90:60.41cd/klm
 Max.80-90:76.02cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	373
90%	335
80%	298
70%	261
60%	224
50%	186
40%	149
30%	112
20%	75
10%	37
5%	19

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:sun
 Test Date:2022-05-19

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.274
 Humidity:65.0%
 Test Distance:7.475m [K=1.0000]
 Remarks:

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: sun
Test Date: 2022-05-19

Range: 0 - 180DEG
 Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.274
Humidity: 65.0%
Test Distance: 7.475m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:221.2V I:0.0940A P:19.90W PF:0.9570 Lamp Flux:1480.6x1 lm		
NAME: BOLEDA CONUS	TYPE:Bollard	WEIGHT:
DIM.:	SPEC.:20W	SERIAL No.:
MFR.: LUMENA LIGHTS LTD	SUR.:	PROTECTION ANGLE:

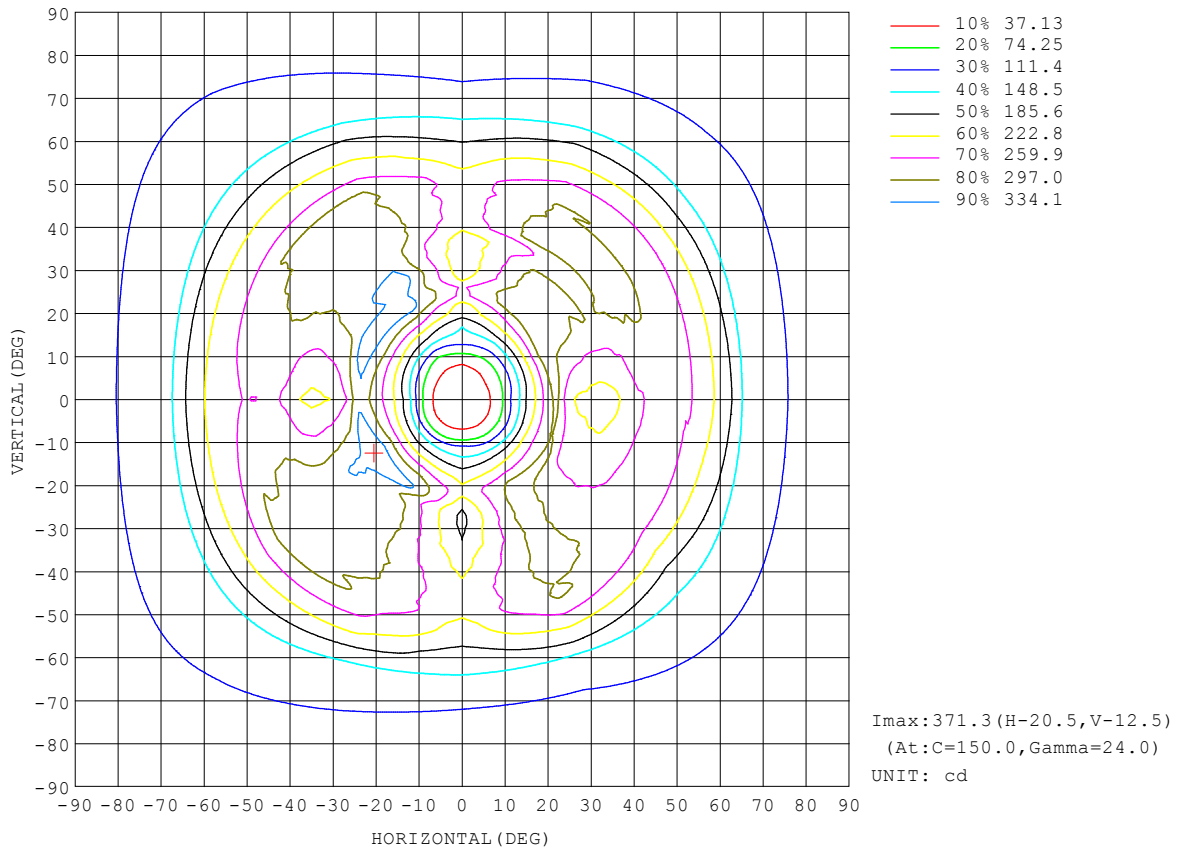
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	84.69	77.14	90.10	82.67	91.08	67.41	54.27	68.25	0- 10	3.794	3.794	0.26,0.26
20	278.8	269.1	224.3	305.1	273.4	273.1	201.8	268.6	10- 20	52.80	56.59	3.82,3.82
30	206.1	285.0	178.6	321.1	228.0	333.1	196.4	303.3	20- 30	133.3	189.9	12.8,12.8
40	248.8	290.5	217.4	318.1	243.1	321.5	228.4	316.0	30- 40	170.9	360.8	24.4,24.4
50	272.7	281.1	231.2	304.9	260.8	301.9	244.2	291.9	40- 50	221.1	581.9	39.3,39.3
60	214.2	179.2	168.4	207.7	221.5	217.5	183.3	206.8	50- 60	217.1	799.0	54,54
70	125.1	115.8	116.3	125.3	135.9	130.5	118.3	124.3	60- 70	154.8	953.8	64.4,64.4
80	101.9	90.82	94.70	100.5	112.6	109.5	100.2	101.6	70- 80	118.8	1073	72.4,72.4
90	86.45	80.20	80.98	81.88	89.44	86.09	82.96	83.13	80- 90	99.05	1172	79.1,79.1
100	81.22	77.86	5.885	79.23	81.99	81.14	36.37	80.46	90-100	84.46	1256	84.8,84.8
110	41.04	73.02	31.75	74.48	35.83	77.32	44.99	75.75	100-110	69.60	1326	89.5,89.5
120	17.21	63.99	45.32	63.93	18.84	70.14	45.61	67.03	110-120	58.70	1384	93.5,93.5
130	15.25	49.47	38.46	49.20	16.63	56.66	35.70	49.32	120-130	44.24	1429	96.5,96.5
140	12.51	34.22	27.99	33.94	13.14	38.40	30.90	36.81	130-140	28.69	1457	98.4,98.4
150	8.467	19.55	16.71	19.30	8.215	23.15	15.33	23.71	140-150	15.58	1473	99.5,99.5
160	4.445	7.359	6.958	7.542	3.989	9.420	8.194	11.29	150-160	6.137	1479	99.9,99.9
170	2.398	1.843	1.676	1.818	1.706	2.163	3.522	3.298	160-170	1.379	1480	100,100
180	1.508	1.420	1.371	1.291	1.645	1.411	1.742	1.329	170-180	0.1683	1481	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:sun
 Test Date:2022-05-19

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.274
 Humidity:65.0%
 Test Distance:7.475m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

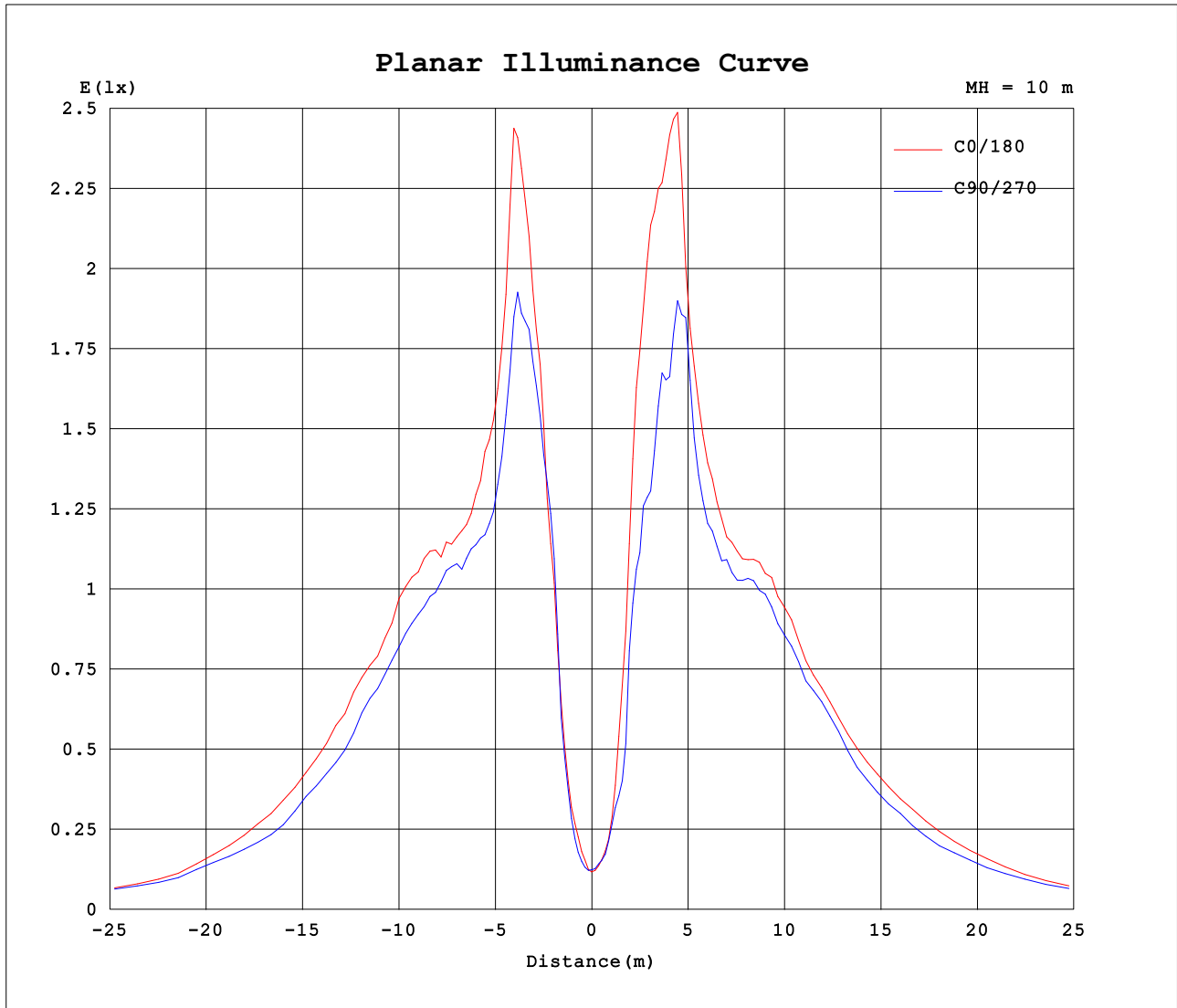
Test:U:221.2V I:0.0940A P:19.90W PF:0.9570 Lamp Flux:1480.6x1 lm		
NAME: BOLEDA CONUS	TYPE:Bollard	WEIGHT:
DIM.:	SPEC.:20W	SERIAL No.:
MFR.: LUMENA LIGHTS LTD	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:sun
 Test Date:2022-05-19

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.274
 Humidity:65.0%
 Test Distance:7.475m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: sun
 Test Date: 2022-05-19

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.274
 Humidity: 65.0%
 Test Distance: 7.475m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.2V I:0.0940A P:19.90W PF:0.9570 Lamp Flux:1480.6x1 lm		
NAME: BOLEDA CONUS	TYPE:Bollard	WEIGHT:
DIM.:	SPEC.:20W	SERIAL No.:
MFR.: LUMENA LIGHTS LTD	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C (DEG) □ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330								
0	11.8	11.7	11.9	12.5	12.2	12.4	11.8	11.7	11.9	12.5	12.2	12.4								
5	27.1	24.5	22.7	22.4	22.4	21.4	22.2	22.7	21.1	21.7	23.5	27.2								
10	84.7	76.7	77.6	90.1	82.1	83.2	91.1	77.8	57.1	54.3	61.1	75.4								
15	189	183	183	171	197	207	208	185	160	140	148	172								
20	279	272	267	224	296	314	273	282	265	202	249	288								
25	236	271	318	190	298	369	308	362	347	250	321	308								
30	206	249	321	179	303	339	228	301	365	196	311	296								
35	212	257	313	196	303	327	212	295	327	199	290	294								
40	249	269	312	217	303	333	243	310	333	228	324	308								
45	275	269	307	232	303	322	267	306	318	242	314	308								
50	273	263	300	231	294	316	261	296	307	244	293	291								
55	250	220	248	205	254	262	244	252	262	214	256	253								
60	214	171	187	168	201	215	221	217	218	183	211	203								
65	150	134	126	132	141	161	177	173	175	149	161	148								
70	125	119	112	116	122	129	136	133	128	118	126	123								
75	113	106	100	104	110	116	124	123	116	109	114	112								
80	102	93.8	87.8	94.7	97.8	103	113	112	107	100	104	99.2								
85	91.0	85.5	78.6	86.9	86.5	89.7	98.8	98.6	94.9	89.8	92.1	86.6								
90	86.5	82.6	77.8	81.0	82.1	81.7	89.4	88.0	84.2	83.0	84.3	82.0								
95	84.6	80.9	77.4	43.7	80.8	80.3	86.3	83.6	81.3	70.3	82.5	81.0								
100	81.2	79.1	76.7	5.88	79.4	79.0	82.0	81.8	80.4	36.4	81.2	79.7								
105	68.4	76.5	75.1	5.05	77.6	77.0	60.7	79.9	79.1	26.0	79.5	77.8								
110	41.0	73.1	73.0	31.8	75.0	74.0	35.8	77.5	77.1	45.0	76.5	75.0								
115	19.7	68.5	70.1	48.8	71.4	69.7	19.6	74.1	74.3	49.7	73.0	71.3								
120	17.2	62.0	66.0	45.3	66.8	61.0	18.8	69.6	70.7	45.6	68.8	65.2								
125	16.3	53.1	60.9	42.3	61.4	51.8	18.0	62.6	65.9	41.4	62.7	56.7								
130	15.3	44.4	54.5	38.5	54.8	43.6	16.6	54.1	59.3	35.7	50.1	48.6								
135	13.8	36.4	47.3	33.5	47.3	35.9	15.2	45.0	50.1	35.1	40.7	40.9								
140	12.5	29.1	39.4	28.0	39.2	28.7	13.1	37.0	39.8	30.9	40.1	33.6								
145	10.4	22.2	31.2	22.2	30.9	22.0	10.9	29.4	32.1	21.4	34.5	26.6								
150	8.47	15.8	23.3	16.7	22.8	15.8	8.21	22.3	24.1	15.3	27.4	20.0								
155	6.18	10.2	15.6	11.5	15.3	10.5	5.97	15.7	16.9	11.3	20.8	14.0								
160	4.45	5.72	9.00	6.96	8.98	6.11	3.99	10.1	8.76	8.19	13.6	8.99								
165	3.26	2.87	4.36	3.43	4.48	3.03	2.41	5.32	3.50	5.84	7.74	5.24								
170	2.40	1.56	2.12	1.68	2.20	1.44	1.71	2.50	1.83	3.52	3.68	2.92								
175	1.76	1.35	1.70	1.41	1.64	1.07	1.51	1.47	1.12	1.88	1.59	1.55								
180	1.51	1.34	1.49	1.37	1.45	1.13	1.65	1.46	1.36	1.74	1.38	1.28								

C Range: 0 - 360DEG
 C Interval: 30.0DEG
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 Operators:sun
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□ Range: 0 - 180DEG
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