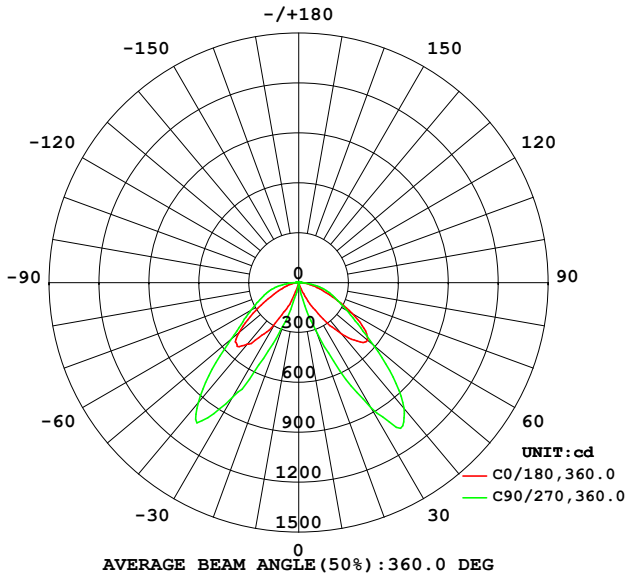
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.02V I:0.1843A P:21.796W PF:0.9855 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2385.22x1 lm		
NAME: LSBO24W-3CCT	TYPE: 24W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.15	Shielding Angle:

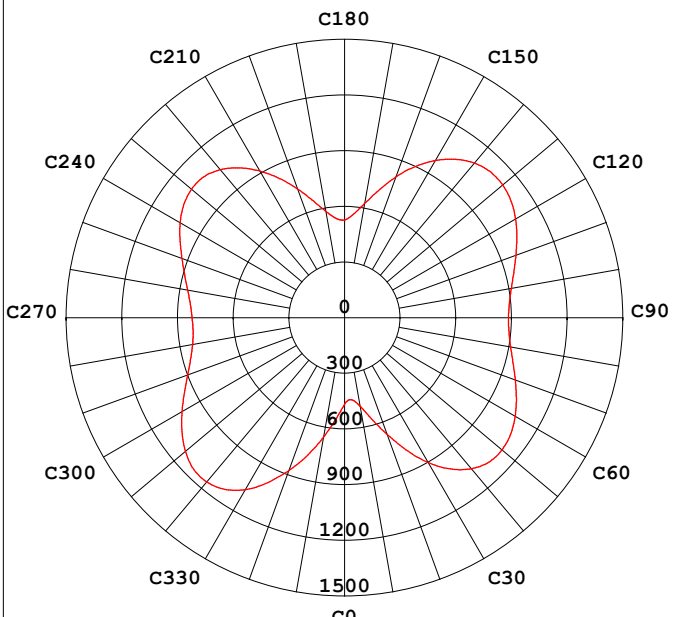
DATA OF LAMP		PHOTOMETRIC DATA Eff: 109.43 lm/W			
MODEL	LSBO24W-3CCT	Imax(cd)	1153	η street_up(%)	1.0
NOMINAL POWER(W)	24	LOR(%)	100.0	η street_down(%)	49.6
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2385	η house_up(%)	1.1
NOMINAL FLUX(lm)	2385.22	MAXIMUM @(C,γ)	315,43.0	η house_down(%)	48.2
LAMPS INSIDE	1	η up(%)	2.1	76 FLASHAREA(m2)	
TEST VOLTAGE(V)	120	η down(%)	97.9	SLI	

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



AVERAGE BEAM ANGLE(50%):360.0 DEG

MAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM



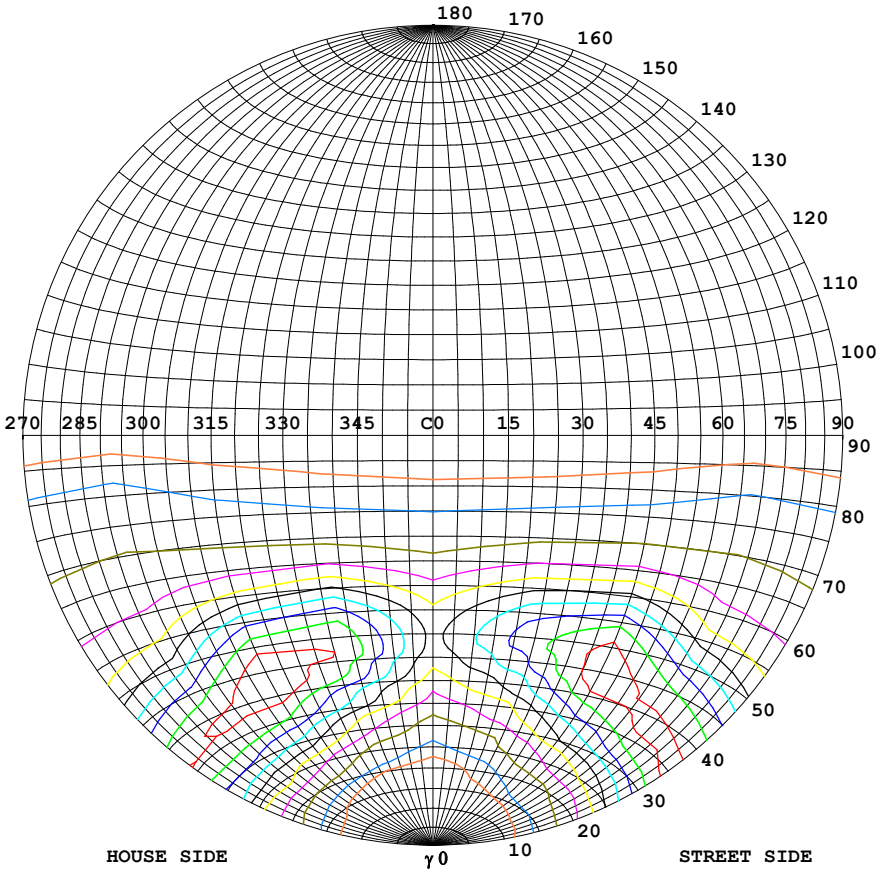
HOUSE SIDE Max @ γ = 43.0DEG STREET SIDE

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-5-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.600m [K=1.0000]
Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:120.02V I:0.1843A P:21.796W PF:0.9855 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2385.22x1 lm		
NAME: LSBO24W-3CCT	TYPE: 24W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.15	Shielding Angle:



Classification:

IES:Type V - Very Short
CIE:Narrow - Short
IES:Cut-off
CIE:Semi-cut-off
Max.At80:57.93cd/klm
Max.At90:8.424cd/klm
Max.80-90:57.93cd/klm
NRB 5101:Limited[4.3%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	1153
90%	1038
80%	922
70%	807
60%	692
50%	577
40%	461
30%	346
20%	231
10%	115
5%	58

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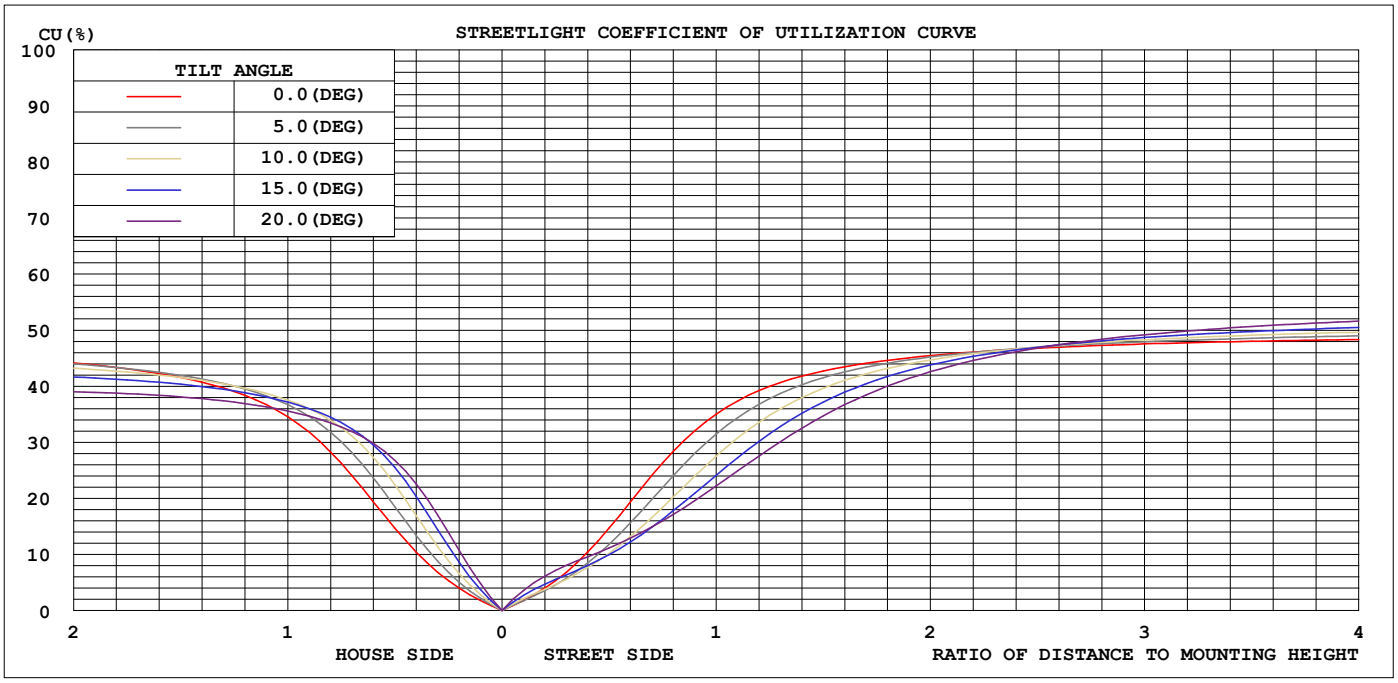
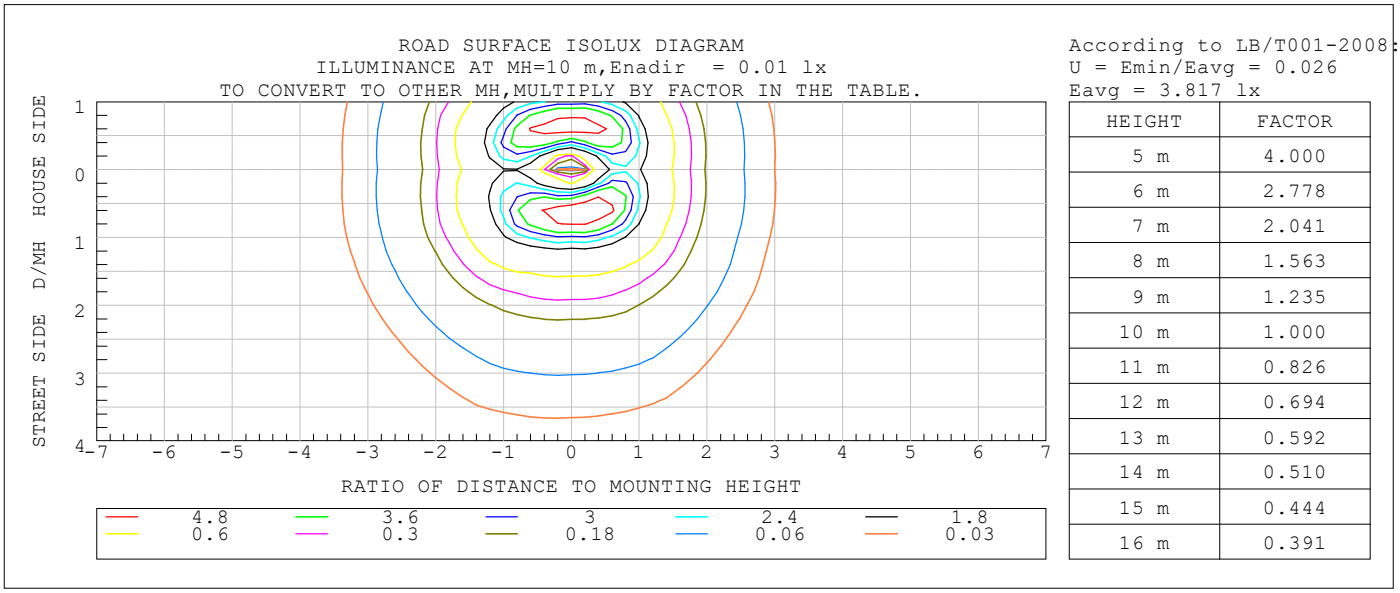
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.600m [K=1.0000]
Remarks:

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM





According to LB/T001-2008:
U = Emin/Eavg = 0.026
Eavg = 3.817 lx

HEIGHT	FACTOR
5 m	4.000
6 m	2.778
7 m	2.041
8 m	1.563
9 m	1.235
10 m	1.000
11 m	0.826
12 m	0.694
13 m	0.592
14 m	0.510
15 m	0.444
16 m	0.391

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C Interval: 22.5DEG
Test Speed: HIGH
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.600m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:120.02V I:0.1843A P:21.796W PF:0.9855 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2385.22x1 lm		
NAME: LSBO24W-3CCT	TYPE: 24W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.15	Shielding Angle:

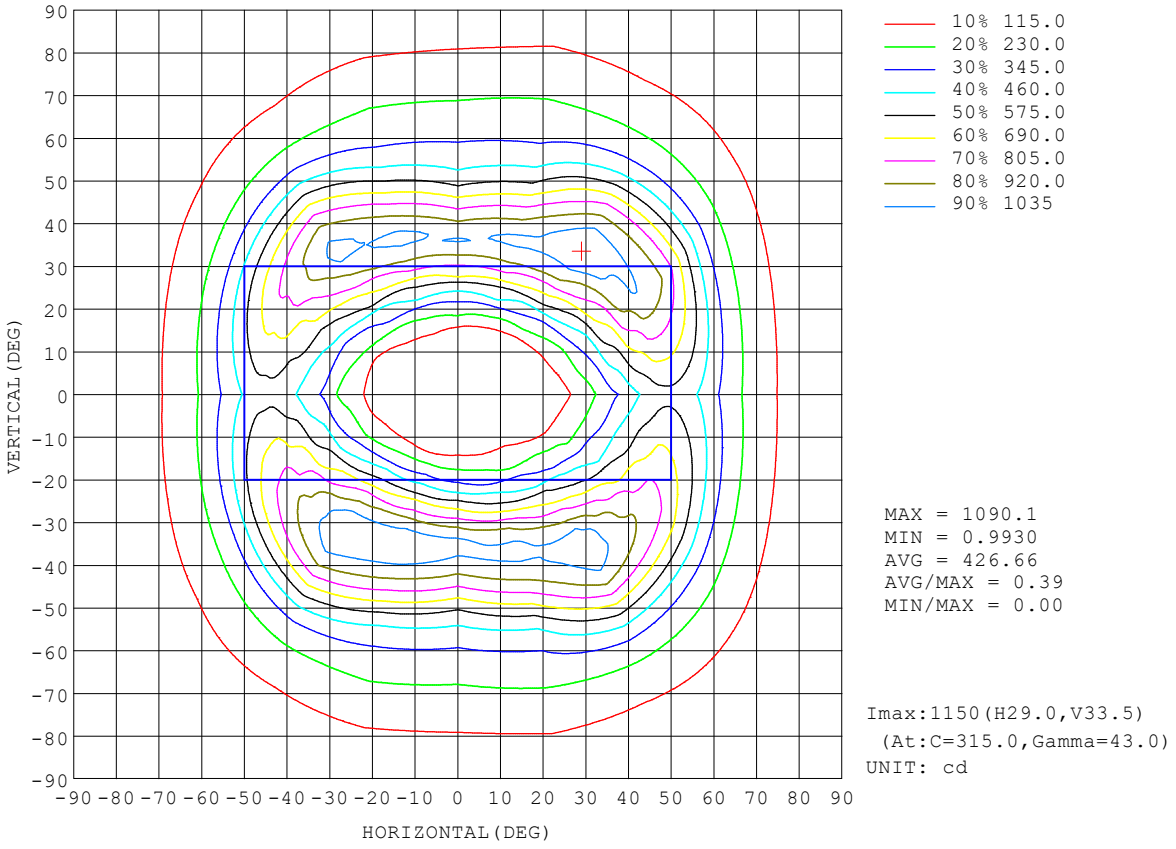
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1.386	4.225	26.41	5.384	1.983	3.254	6.882	2.311	0- 10	0.2308	0.2308	0.01,0.01
20	14.08	166.0	312.3	262.2	57.97	192.4	269.0	168.8	10- 20	24.03	24.26	1.02,1.02
30	175.5	566.6	867.0	759.8	281.3	651.2	792.8	638.0	20- 30	178.9	203.2	8.52,8.52
40	405.2	1007	984.4	1131	484.2	1025	938.0	1099	30- 40	487.7	690.9	29,29
50	540.7	1064	590.5	915.6	471.3	887.6	533.2	995.0	40- 50	659.4	1350	56.6,56.6
60	371.5	610.3	333.5	418.5	244.3	406.2	331.2	497.0	50- 60	514.7	1865	78.2,78.2
70	174.7	232.2	209.3	172.4	107.5	160.0	219.2	218.9	60- 70	278.2	2143	89.9,89.9
80	67.44	85.87	104.4	63.91	39.07	64.89	125.1	97.21	70- 80	141.9	2285	95.8,95.8
90	8.319	14.95	15.71	15.63	5.467	17.25	19.50	18.09	80- 90	49.69	2335	97.9,97.9
100	4.436	11.73	13.27	12.68	5.971	14.51	16.03	14.82	90-100	14.06	2349	98.5,98.5
110	4.880	6.355	9.913	6.684	6.447	8.469	12.60	8.512	100-110	11.03	2360	98.9,98.9
120	4.726	5.164	6.790	6.363	6.042	7.511	8.581	7.163	110-120	7.189	2367	99.2,99.2
130	5.248	5.564	6.254	6.524	6.186	7.382	7.691	6.860	120-130	5.921	2373	99.5,99.5
140	6.112	4.687	5.996	5.616	6.453	5.784	6.620	5.854	130-140	4.734	2378	99.7,99.7
150	5.888	4.674	5.151	5.983	5.996	4.887	4.860	4.539	140-150	3.486	2381	99.8,99.8
160	4.674	4.642	4.739	5.802	4.068	4.416	3.791	3.765	150-160	2.241	2384	99.9,99.9
170	4.946	4.836	4.810	5.152	4.423	4.500	3.965	3.868	160-170	1.263	2385	100,100
180	4.191	4.507	4.436	4.210	4.184	4.513	4.429	4.216	170-180	0.4316	2385	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-5-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.600m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

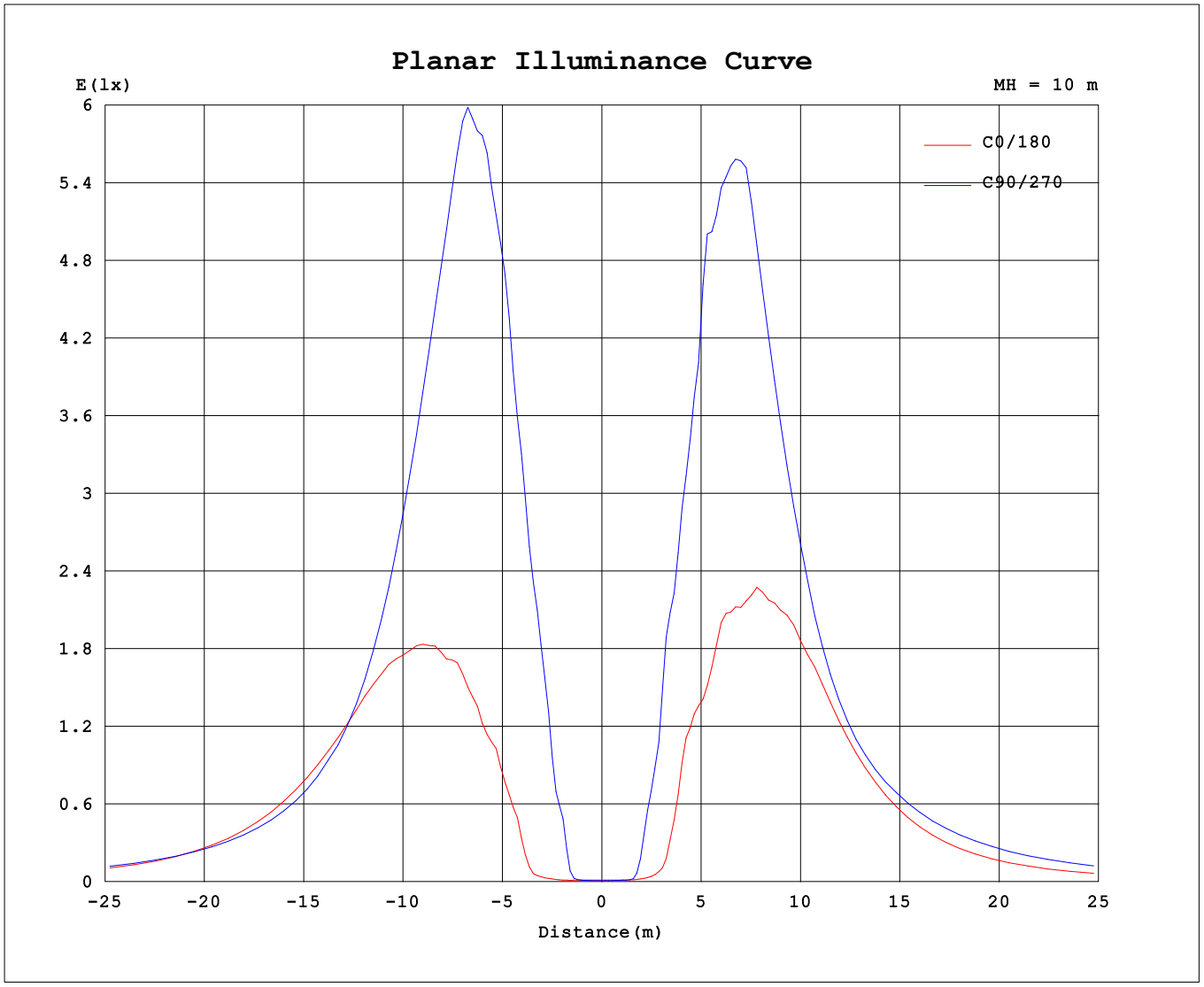
Test:U:120.02V I:0.1843A P:21.796W PF:0.9855 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2385.22x1 lm		
NAME: LSBO24W-3CCT	TYPE: 24W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.15	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-5-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.600m [K=1.0000]
Remarks:

Planar Illuminance Curve



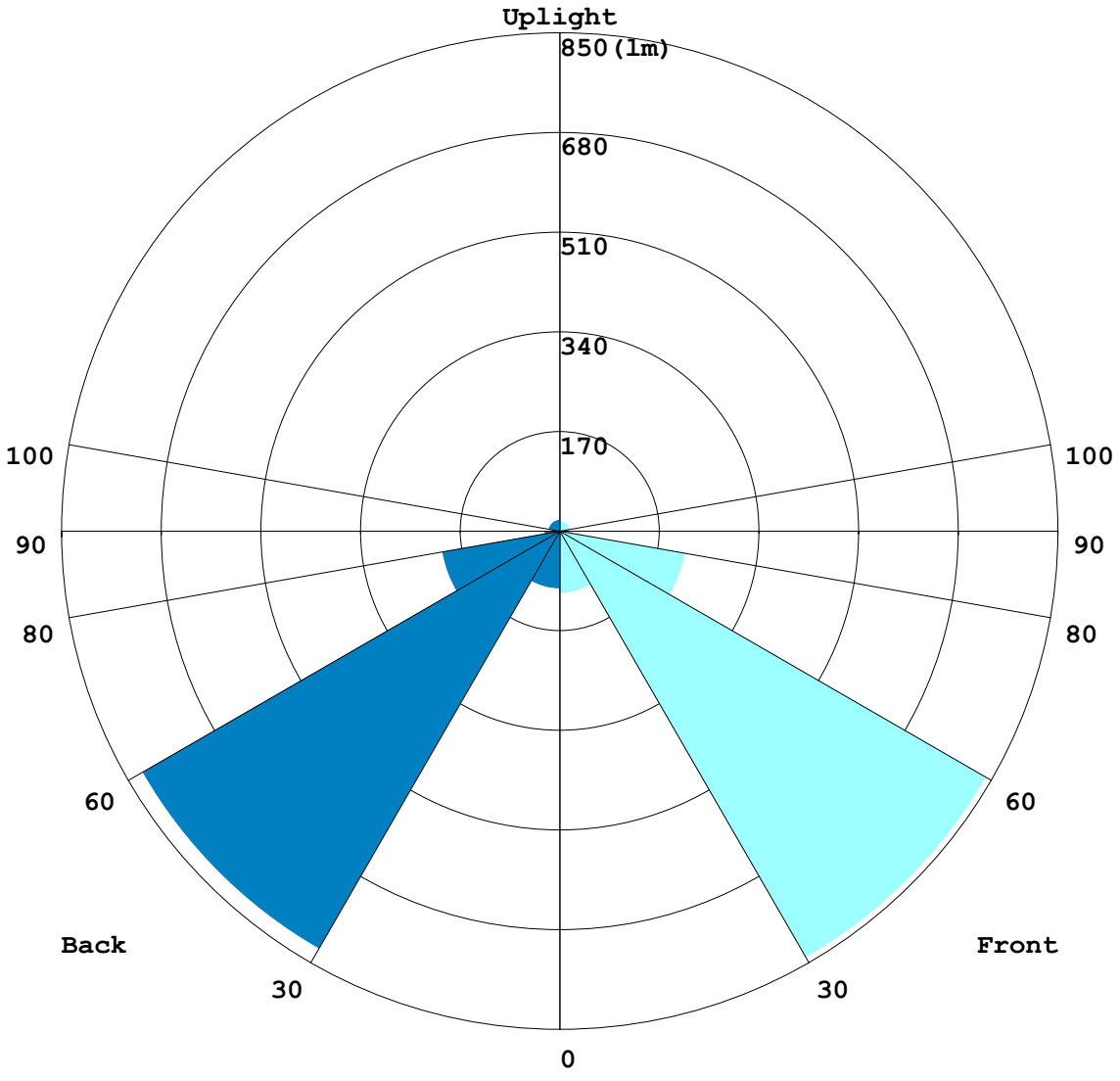
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-5-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.600m [K=1.0000]
Remarks:

LCS REPORT

Test:U:120.02V I:0.1843A P:21.796W PF:0.9855 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2385.22x1 lm		
NAME: LSBO24W-3CCT	TYPE: 24W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.15	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
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Test Date:2024-5-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.600m [K=1.0000]
Remarks:

BUG REPORT

Test:U:120.02V I:0.1843A P:21.796W PF:0.9855 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2385.22x1 lm		
NAME: LSBO24W-3CCT	TYPE: 24W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.15	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	105.16	4.4
FM - Front-Medium(30-60)	839.43	35.2
FH - Front-High(60-80)	216.26	9.1
FVH - Front-Very High(80-90)	23.283	1.0
Total Forward Light	1207.4	50.6
BL - Back-Low(0-30)	98.04	4.1
BM - Back-Medium(30-60)	822.41	34.5
BH - Back-High(60-80)	203.86	8.5
BVH - Back-Very High(80-90)	26.41	1.1
Total Back Light	1177.8	49.4
UL - Uplight-Low(90-100)	14.06	0.6
UH - Uplight-High(100-180)	36.292	1.5
Total Up Light	50.352	2.1

BUG(Back,Up,Glare) Rating	B1-U2-G1

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1150.7	27.077	1177.8
Street Side	1184.1	23.275	1207.4

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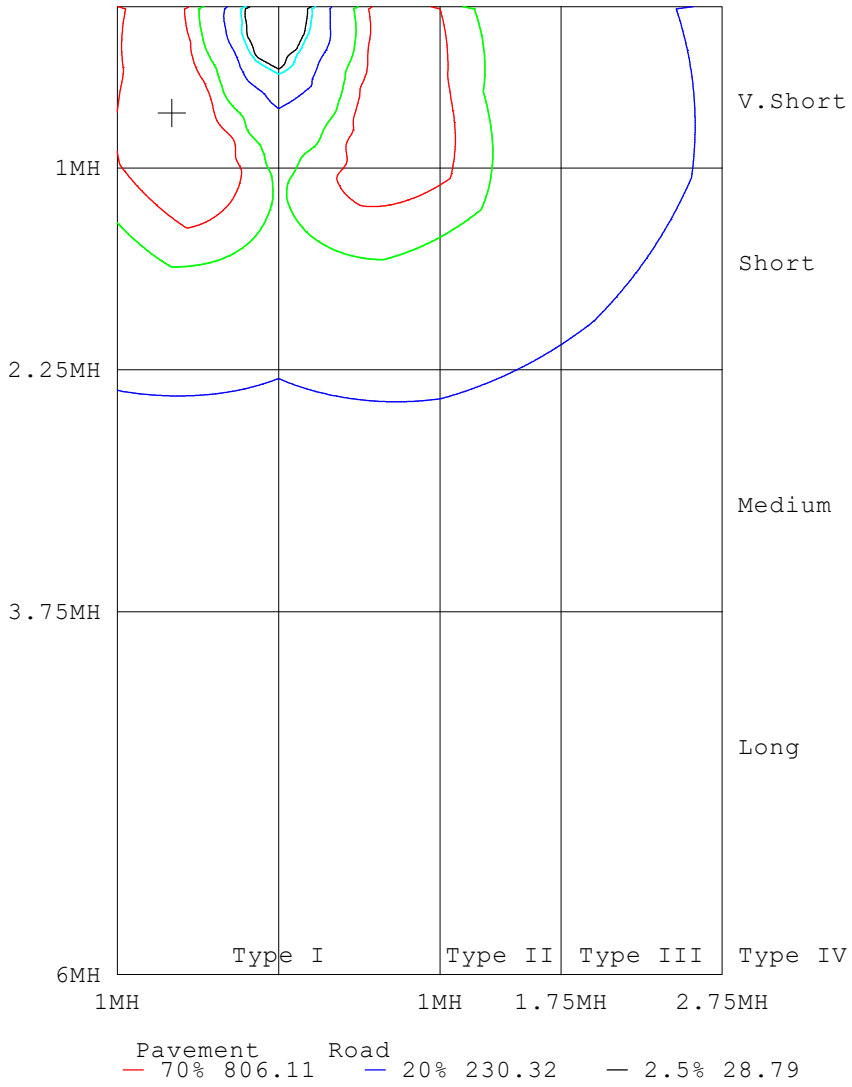
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-5-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.600m [K=1.0000]
Remarks:

ROAD ISOCANDELA REPORT

Test:U:120.02V I:0.1843A P:21.796W PF:0.9855 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2385.22x1 lm		
NAME: LSBO24W-3CCT	TYPE: 24W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.15	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-5-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.600m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.02V I:0.1843A P:21.796W PF:0.9855 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2385.22x1 lm		
NAME: LSBO24W-3CCT	TYPE: 24W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.15	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	1.44	1.59	1.82	1.52	1.01	1.37	1.73	1.58	1.44	1.59	1.82	1.52	1.01	1.37	1.73	1.58			
5	1.41	1.61	1.94	1.75	1.24	1.59	1.73	1.53	1.43	1.51	1.82	1.68	1.26	1.57	1.78	1.57			
10	1.39	2.10	4.23	14.2	26.4	16.4	5.38	2.80	1.98	2.16	3.25	8.27	6.88	3.40	2.31	1.62			
15	3.01	14.0	80.0	110	145	115	89.5	26.5	6.21	20.9	77.6	111	97.4	75.1	28.0	4.49			
20	14.1	80.2	166	250	312	337	262	148	58.0	91.1	192	262	269	247	169	56.1			
25	90.5	182	338	473	585	579	506	297	175	248	386	511	504	508	355	191			
30	175	288	567	727	867	850	760	458	281	412	651	776	793	791	638	371			
35	292	429	775	973	1069	1088	987	630	386	570	867	1012	1013	1005	911	604			
40	405	613	1007	1060	984	1084	1131	792	484	700	1025	1047	938	1025	1099	800			
45	496	771	1114	944	803	933	1076	833	527	771	1046	882	738	852	1128	970			
50	541	856	1064	745	591	721	916	717	471	708	888	662	533	641	995	1002			
55	481	756	880	532	435	503	660	513	356	513	644	469	409	468	767	857			
60	372	554	610	382	334	364	418	318	244	320	406	343	331	356	497	587			
65	260	346	375	297	263	279	264	199	162	196	249	271	269	289	318	341			
70	175	213	232	232	209	215	172	127	108	124	160	215	219	236	219	206			
75	113	127	145	175	160	159	109	79.3	70.1	77.4	104	164	175	189	151	126			
80	67.4	72.5	85.9	118	104	103	63.9	46.1	39.1	46.3	64.9	111	125	138	97.2	76.2			
85	32.0	37.0	44.9	62.2	48.7	50.0	31.4	21.4	16.1	23.5	36.2	61.0	64.2	81.6	54.5	41.8			
90	8.32	11.0	14.9	16.0	15.7	16.6	15.6	10.8	5.47	11.3	17.2	19.1	19.5	20.1	18.1	14.2			
95	4.40	8.62	13.0	14.2	14.3	15.1	14.0	9.66	5.66	10.3	15.7	17.6	17.1	17.4	16.1	11.3			
100	4.44	7.79	11.7	13.1	13.3	13.9	12.7	8.81	5.97	9.68	14.5	16.4	16.0	16.3	14.8	10.4			
105	4.62	7.24	9.16	11.8	12.2	12.6	9.74	8.12	6.31	9.15	11.6	15.1	14.9	15.0	12.0	9.63			
110	4.88	5.97	6.36	9.47	9.91	10.1	6.68	6.30	6.45	7.56	8.47	12.4	12.6	12.4	8.51	7.98			
115	4.85	5.00	5.25	7.46	7.47	8.06	6.11	5.10	5.93	6.23	7.47	10.1	9.75	9.66	7.29	6.59			
120	4.73	4.69	5.16	6.85	6.79	7.56	6.36	4.77	6.04	5.88	7.51	9.32	8.58	8.85	7.16	6.02			
125	5.07	5.11	5.42	6.51	6.61	7.39	6.62	5.16	5.70	6.19	7.59	8.76	8.19	8.08	6.99	6.30			
130	5.25	5.04	5.56	6.14	6.25	7.21	6.52	5.49	6.19	6.07	7.38	8.18	7.69	7.45	6.86	5.99			
135	5.81	4.87	5.47	5.80	6.18	6.36	5.86	5.71	6.32	5.85	6.65	7.08	7.26	6.87	6.13	5.46			
140	6.11	4.93	4.69	5.54	6.00	6.00	5.62	5.75	6.45	5.64	5.78	6.14	6.62	6.65	5.85	5.22			
145	6.16	5.14	4.84	5.24	5.58	6.18	5.79	5.72	6.23	5.44	5.16	5.86	5.68	5.42	5.27	5.07			
150	5.89	5.30	4.67	5.07	5.15	5.96	5.98	5.47	6.00	4.73	4.89	5.56	4.86	4.71	4.54	4.87			
155	4.84	5.18	4.71	4.67	4.84	6.06	6.10	5.24	4.52	4.48	4.93	4.78	4.17	3.81	3.68	4.45			
160	4.67	4.57	4.64	4.45	4.74	5.86	5.80	5.07	4.07	4.31	4.42	4.25	3.79	3.52	3.77	3.77			
165	4.71	4.80	4.83	4.66	4.74	5.06	5.18	5.04	4.04	4.18	4.39	4.21	3.78	3.56	3.82	3.86			
170	4.95	5.41	4.84	5.12	4.81	4.85	5.15	4.80	4.42	4.20	4.50	4.27	3.97	4.24	3.87	4.47			
175	4.40	4.51	4.69	4.72	4.64	4.60	4.54	4.38	4.06	4.59	4.46	4.44	4.18	4.01	4.00	4.02			
180	4.19	4.30	4.51	4.58	4.44	4.28	4.21	4.12	4.18	4.29	4.51	4.59	4.43	4.27	4.22	4.11			

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.600m [K=1.0000]
Remarks: