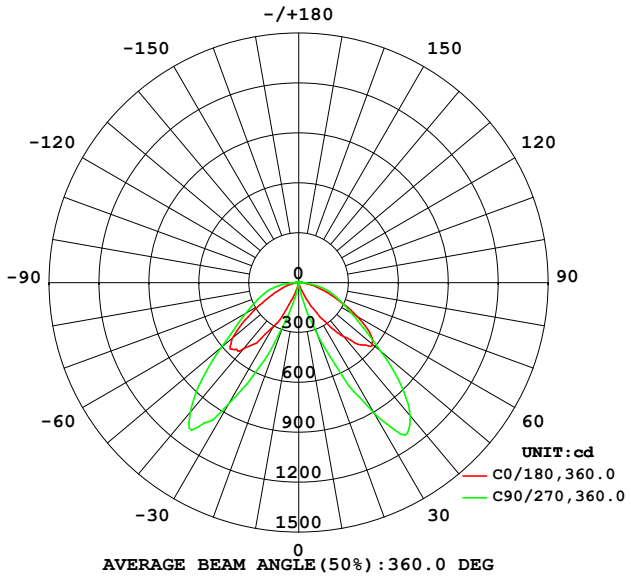
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.96V I:0.1864A P:22.044W PF:0.9858 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2571.35x1 lm		
NAME: LSBO24W-3CCT	TYPE: 24W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.15	Shielding Angle:

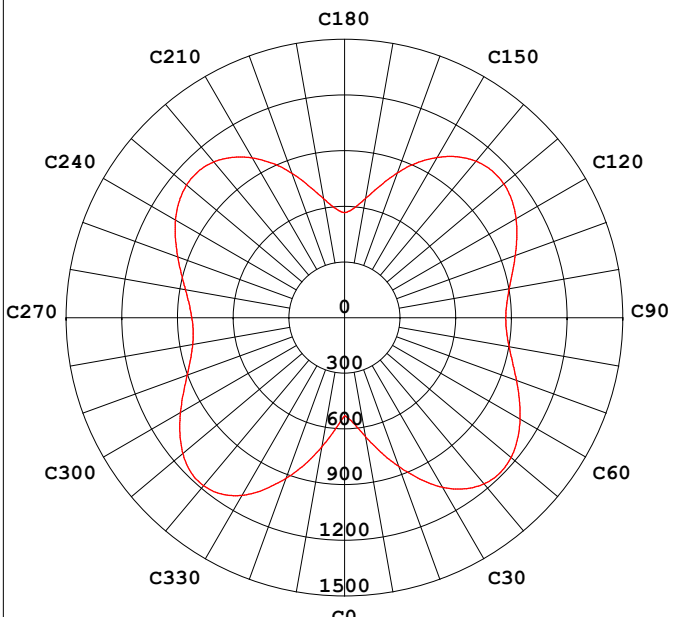
DATA OF LAMP		PHOTOMETRIC DATA Eff: 116.65 lm/W			
MODEL	LSBO24W-3CCT	Imax(cd)	1184	η street_up(%)	1.0
NOMINAL POWER(W)	24	LOR(%)	100.0	η street_down(%)	49.6
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2571	η house_up(%)	1.1
NOMINAL FLUX(lm)	2571.35	MAXIMUM @(C,γ)	45,45.0	η house_down(%)	48.3
LAMPS INSIDE	1	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



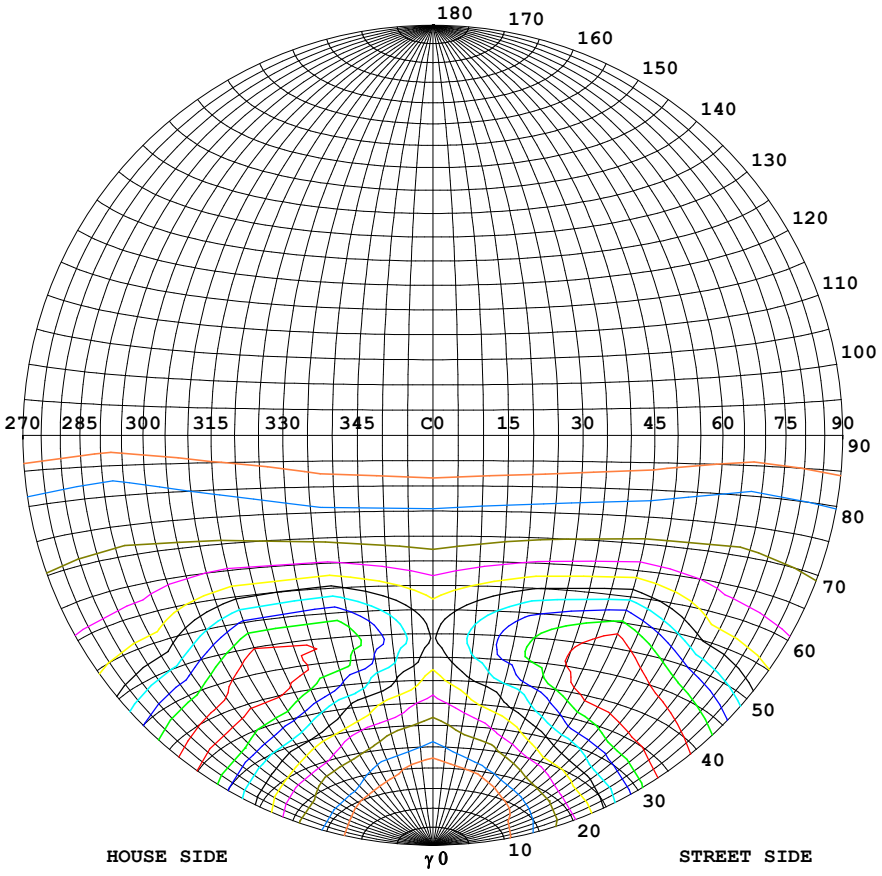
HOUSE SIDE Max @ γ = 45.0DEG STREET SIDE

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:119.96V I:0.1864A P:22.044W PF:0.9858 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2571.35x1 lm		
NAME: LSBO24W-3CCT	TYPE: 24W	WEIGHT:
SPEC.: 5000K	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.At80:57.28cd/klm
Max.At90:8.658cd/klm
Max.80-90:57.28cd/klm
NRB 5101:Limited[4.4%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	1184
90%	1066
80%	947
70%	829
60%	711
50%	592
40%	474
30%	355
20%	237
10%	118
5%	59

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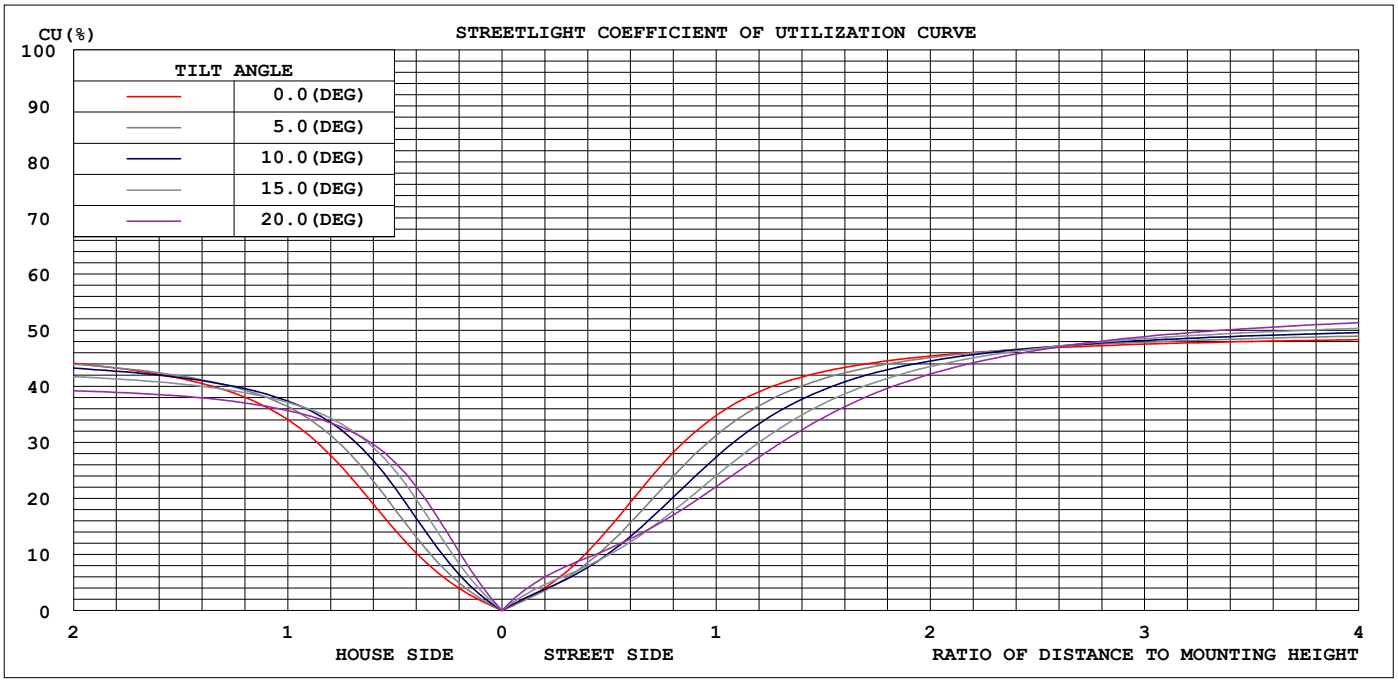
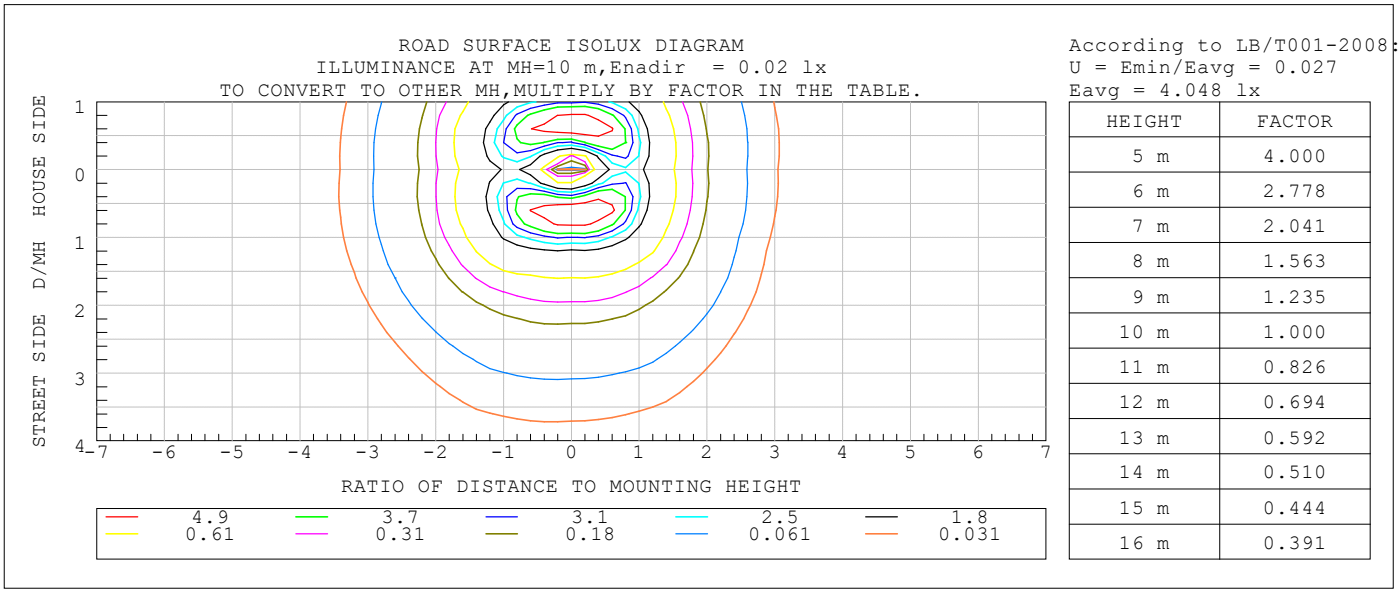
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.600m [K=1.0000]
Remarks:

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM





According to LB/T001-2008:
U = Emin/Eavg = 0.027
Eavg = 4.048 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:119.96V I:0.1864A P:22.044W PF:0.9858 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2571.35x1 lm		
NAME: LSBO24W-3CCT	TYPE: 24W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.15	Shielding Angle:

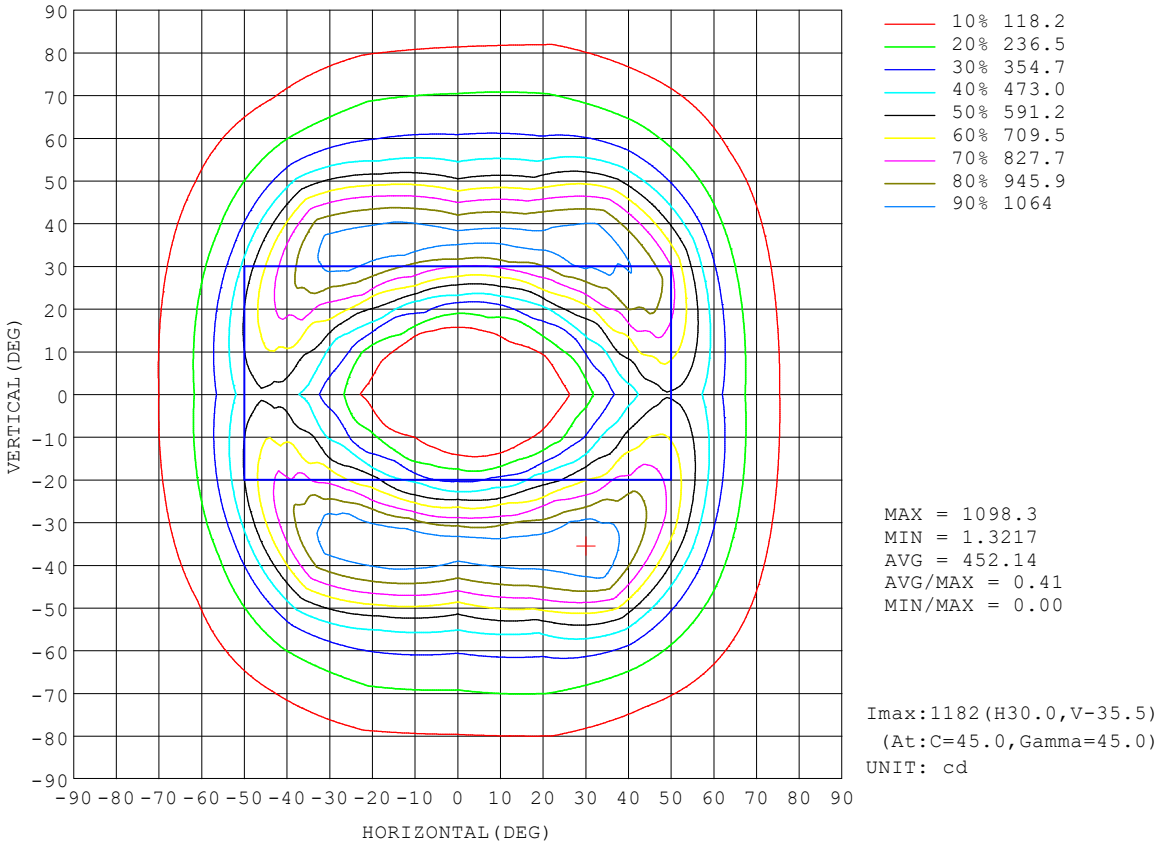
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1.702	3.618	41.66	25.34	2.455	3.061	4.915	2.948	0- 10	0.3364	0.3364	0.01,0.01
20	16.46	209.4	335.2	278.8	80.35	250.3	285.7	163.2	10- 20	26.10	26.43	1.03,1.03
30	191.0	641.8	903.7	733.3	306.5	687.9	834.1	603.6	20- 30	191.2	217.6	8.46,8.46
40	424.8	1099	1042	1152	524.5	1114	1012	1082	30- 40	514.6	732.2	28.5,28.5
50	577.4	1141	649.4	962.3	520.2	974.1	607.7	1059	40- 50	706.3	1438	55.9,55.9
60	405.4	674.3	365.6	463.1	271.8	466.3	367.3	570.4	50- 60	562.5	2001	77.8,77.8
70	190.9	258.6	228.3	192.1	118.6	185.9	240.4	248.6	60- 70	305.9	2307	89.7,89.7
80	72.60	94.48	113.6	72.25	43.29	73.81	135.8	109.2	70- 80	155.6	2463	95.8,95.8
90	8.284	16.04	17.23	17.07	5.731	17.83	21.15	19.78	80- 90	53.95	2516	97.9,97.9
100	5.016	13.10	14.81	13.55	6.216	15.26	17.53	15.81	90-100	15.18	2532	98.5,98.5
110	5.589	7.355	11.32	7.129	6.789	8.822	13.97	9.027	100-110	12.00	2544	98.9,98.9
120	5.235	6.048	7.537	6.820	6.364	7.712	9.767	7.782	110-120	7.892	2552	99.2,99.2
130	6.394	5.422	7.248	7.163	6.917	7.633	8.890	7.030	120-130	6.423	2558	99.5,99.5
140	6.837	5.616	6.660	5.932	6.338	6.731	7.237	6.267	130-140	5.288	2563	99.7,99.7
150	5.498	4.735	5.548	6.344	6.750	5.177	5.924	4.713	140-150	3.779	2567	99.8,99.8
160	5.016	4.892	6.007	6.455	5.208	4.989	4.781	4.132	150-160	2.440	2569	99.9,99.9
170	4.945	5.164	5.100	5.666	4.499	4.968	4.249	4.197	160-170	1.394	2571	100,100
180	4.532	4.868	4.687	4.513	4.539	4.887	4.687	4.513	170-180	0.4610	2571	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

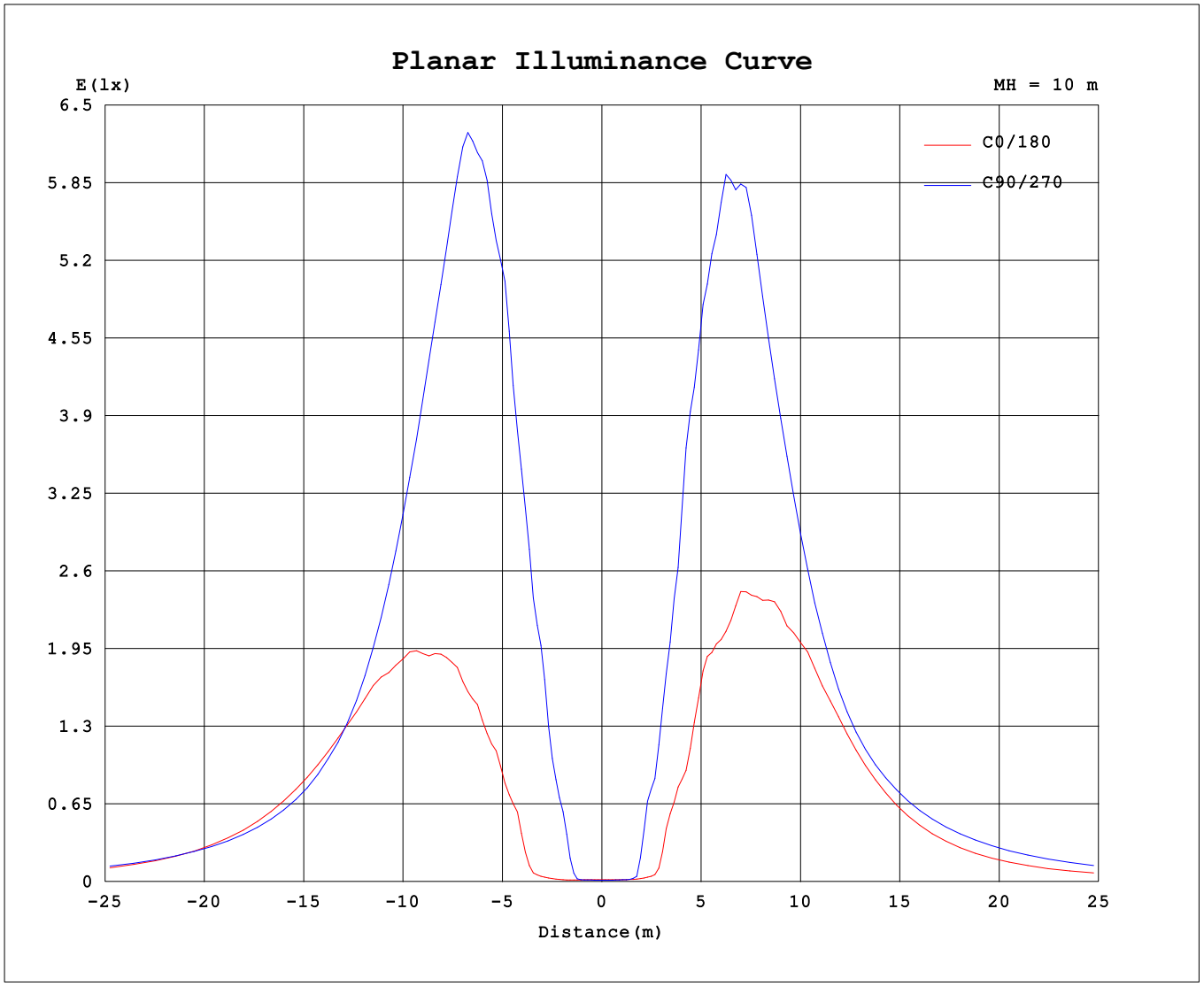
Test:U:119.96V I:0.1864A P:22.044W PF:0.9858 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2571.35x1 lm		
NAME: LSBO24W-3CCT	TYPE: 24W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.15	Shielding Angle:



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
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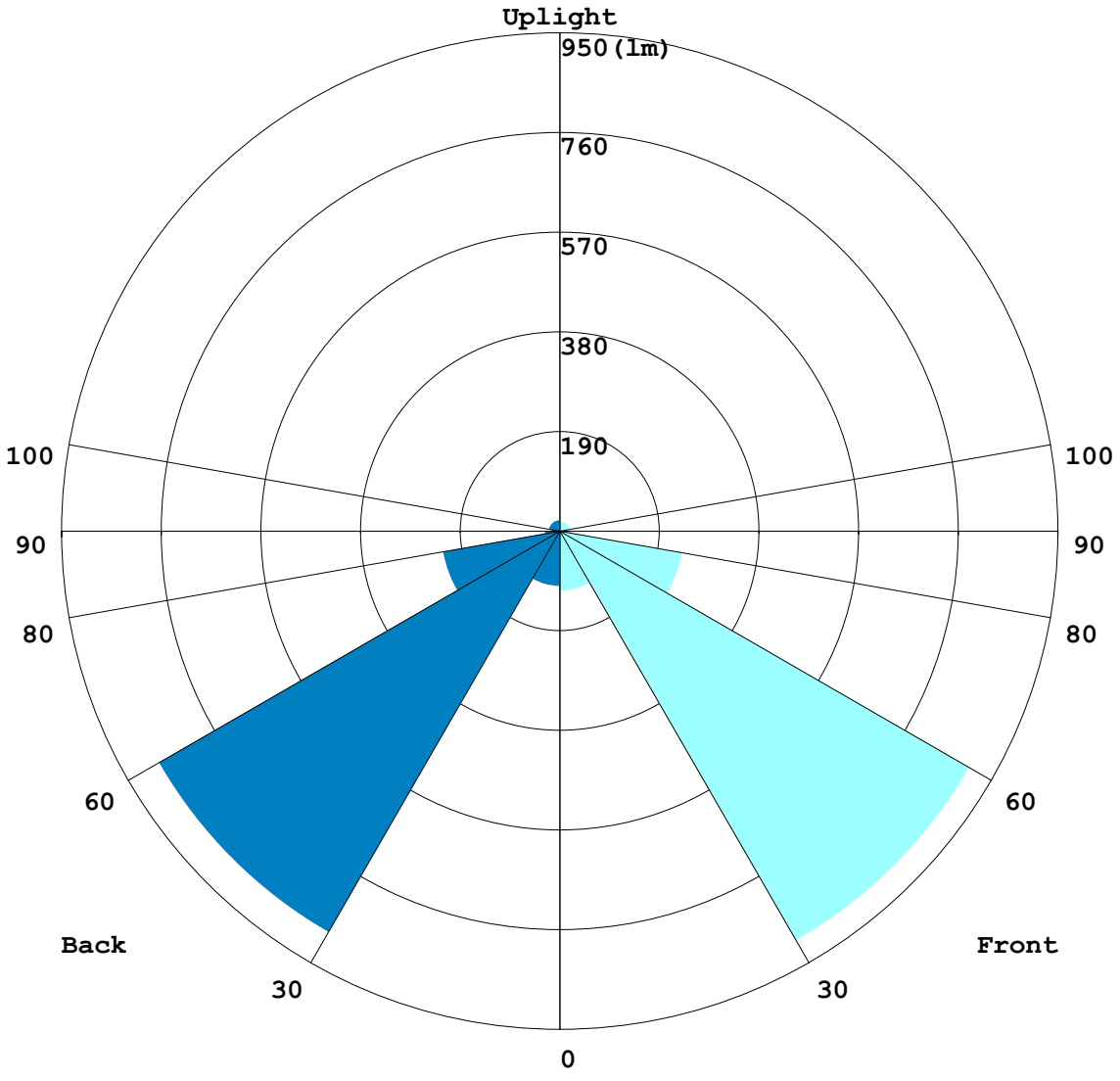
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.600m [K=1.0000]
Remarks:

LCS REPORT

Test:U:119.96V I:0.1864A P:22.044W PF:0.9858 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2571.35x1 lm		
NAME: LSBO24W-3CCT	TYPE: 24W	WEIGHT:
SPEC.: 5000K	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℃
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:

BUG REPORT

Test:U:119.96V I:0.1864A P:22.044W PF:0.9858 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2571.35x1 lm		
NAME: LSBO24W-3CCT	TYPE: 24W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.15	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	113.28	4.4
FM - Front-Medium(30-60)	900.97	35.0
FH - Front-High(60-80)	235.83	9.2
FVH - Front-Very High(80-90)	25.235	1.0
Total Forward Light	1300.9	50.6
BL - Back-Low(0-30)	104.32	4.1
BM - Back-Medium(30-60)	882.47	34.3
BH - Back-High(60-80)	225.68	8.8
BVH - Back-Very High(80-90)	28.718	1.1
Total Back Light	1270.4	49.4
UL - Uplight-Low(90-100)	15.176	0.6
UH - Uplight-High(100-180)	39.677	1.5
Total Up Light	54.853	2.1

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

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1241.2	29.223	1270.4
Street Side	1275.3	25.63	1300.9

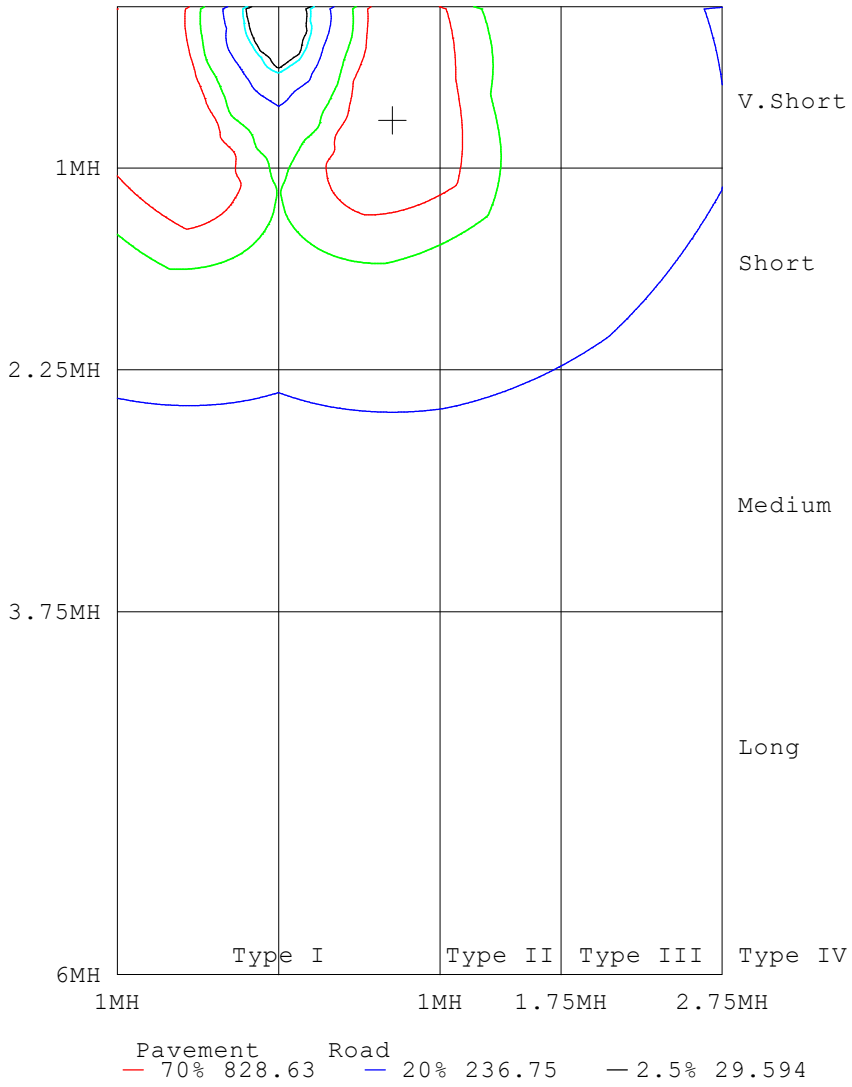
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-5-29

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:

ROAD ISOCANDELA REPORT

Test:U:119.96V I:0.1864A P:22.044W PF:0.9858 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2571.35x1 lm		
NAME: LSBO24W-3CCT	TYPE: 24W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.15	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 22.5DEG
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Temperature:25.3℃
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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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.96V I:0.1864A P:22.044W PF:0.9858 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2571.35x1 lm		
NAME: LSBO24W-3CCT	TYPE: 24W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.15	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(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	1.76	1.86	1.99	1.85	1.33	1.62	1.88	1.68	1.76	1.86	1.99	1.85	1.33	1.62	1.88	1.68			
5	1.70	1.83	2.15	2.19	1.68	1.92	1.97	1.71	1.79	1.81	1.95	1.91	1.61	1.86	1.99	1.65			
10	1.70	2.18	3.62	16.4	41.7	39.6	25.3	3.48	2.45	2.27	3.06	4.00	4.91	5.56	2.95	1.91			
15	3.48	6.18	54.6	99.8	144	154	132	76.3	6.65	8.60	38.9	93.7	96.0	98.9	55.5	12.6			
20	16.5	75.7	209	287	335	309	279	155	80.4	138	250	338	286	253	163	85.6			
25	98.0	200	409	537	619	569	465	285	179	259	482	567	556	484	370	196			
30	191	374	642	813	904	875	733	488	306	441	688	854	834	752	604	334			
35	305	575	887	1046	1119	1128	975	677	442	660	954	1074	1062	1010	857	531			
40	425	750	1099	1114	1042	1141	1152	813	525	836	1114	1126	1012	1086	1082	782			
45	528	904	1184	1012	869	1001	1122	878	567	876	1116	981	824	929	1175	969			
50	577	925	1141	826	649	785	962	761	520	760	974	771	608	720	1059	1034			
55	519	808	962	586	477	553	718	549	395	552	732	538	461	523	846	886			
60	405	586	674	418	366	400	463	343	272	347	466	387	367	394	570	616			
65	284	366	415	326	288	305	291	211	180	217	288	302	296	317	367	364			
70	191	229	259	255	228	234	192	132	119	141	186	238	240	256	249	218			
75	123	140	161	192	174	172	122	81.0	76.8	90.3	120	181	191	202	171	131			
80	72.6	80.9	94.5	128	114	112	72.2	47.6	43.3	53.6	73.8	121	136	147	109	77.9			
85	33.6	39.9	47.9	66.3	52.4	54.8	35.7	23.3	18.3	26.2	39.9	65.8	69.7	87.6	60.9	43.1			
90	8.28	11.8	16.0	17.5	17.2	18.1	17.1	11.6	5.73	11.9	17.8	20.1	21.1	22.3	19.8	15.1			
95	4.90	9.58	14.3	15.9	15.8	16.4	15.1	10.3	5.89	10.9	16.4	18.6	18.6	19.1	17.4	11.9			
100	5.02	8.79	13.1	14.8	14.8	15.1	13.5	9.34	6.22	10.2	15.3	17.5	17.5	17.8	15.8	10.9			
105	5.28	8.22	10.5	13.6	13.8	13.6	10.3	8.59	6.60	9.69	12.3	16.2	16.4	16.3	12.7	10.1			
110	5.59	6.86	7.35	11.1	11.3	11.0	7.13	6.71	6.79	7.99	8.82	13.6	14.0	13.5	9.03	8.35			
115	5.56	5.76	6.13	8.65	8.61	8.88	6.58	5.47	6.33	6.61	7.61	11.1	11.0	10.4	7.93	6.97			
120	5.24	5.25	6.05	7.35	7.54	8.41	6.82	5.15	6.36	6.35	7.71	10.2	9.77	9.34	7.78	6.43			
125	5.54	5.05	5.84	6.83	7.78	8.21	7.10	5.54	6.71	6.57	7.83	9.72	9.44	8.60	7.48	6.59			
130	6.39	5.37	5.42	6.67	7.25	8.07	7.16	5.79	6.92	6.67	7.63	9.25	8.89	7.93	7.03	6.29			
135	6.75	5.79	5.89	7.16	6.77	7.81	6.46	6.01	6.32	6.42	7.16	8.58	8.35	7.72	6.69	5.78			
140	6.84	5.80	5.62	6.38	6.66	6.54	5.93	6.07	6.34	6.06	6.73	7.78	7.24	7.42	6.27	5.78			
145	6.73	5.72	5.32	5.55	6.77	6.02	6.05	6.12	6.52	5.61	5.94	6.45	6.17	5.78	5.70	5.45			
150	5.50	5.54	4.73	5.12	5.55	6.65	6.34	5.79	6.75	5.45	5.18	5.45	5.92	4.96	4.71	5.23			
155	5.18	4.78	4.62	4.95	5.26	6.63	6.55	5.60	6.52	4.65	5.07	5.20	5.49	4.06	4.18	4.84			
160	5.02	4.91	4.89	4.80	6.01	6.04	6.45	5.38	5.21	4.78	4.99	5.72	4.78	3.92	4.13	4.17			
165	5.45	6.34	5.09	5.19	5.20	5.43	5.58	5.35	4.47	4.59	4.62	4.61	4.13	4.06	4.10	4.26			
170	4.95	5.07	5.16	5.09	5.10	5.18	5.67	5.11	4.50	4.59	4.97	4.60	4.25	4.09	4.20	5.10			
175	4.75	4.87	5.02	5.01	4.93	4.90	5.19	5.68	4.91	4.58	5.20	4.75	4.46	4.31	4.33	4.73			
180	4.53	4.75	4.87	6.29	4.69	4.56	4.51	4.44	4.54	4.70	4.89	6.62	4.69	4.57	4.51	4.44			

C Range: 0 - 360DEG
C Interval: 22.5DEG
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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: