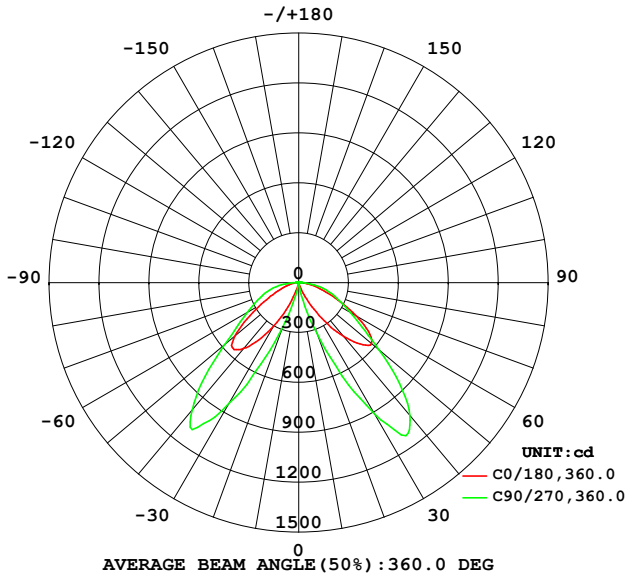
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.1800A P:21.273W PF:0.9850 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2536.45x1 lm		
NAME: LSBO24W-3CCT	TYPE: 24W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.15	Shielding Angle:

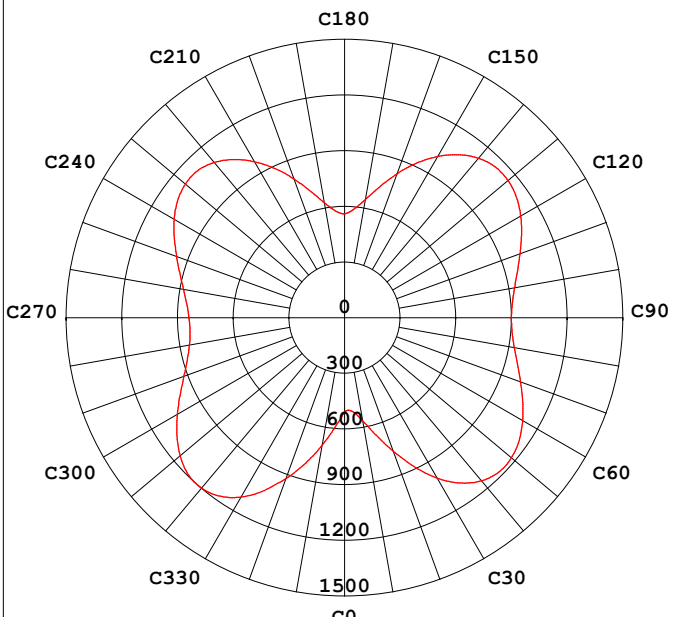
DATA OF LAMP		PHOTOMETRIC DATA Eff: 119.23 lm/W			
MODEL	LSBO24W-3CCT	Imax(cd)	1193	η street_up(%)	1.0
NOMINAL POWER(W)	24	LOR(%)	100.0	η street_down(%)	49.7
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2536	η house_up(%)	1.1
NOMINAL FLUX(lm)	2536.45	MAXIMUM @(C,γ)	315,44.0	η house_down(%)	48.2
LAMPS INSIDE	1	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



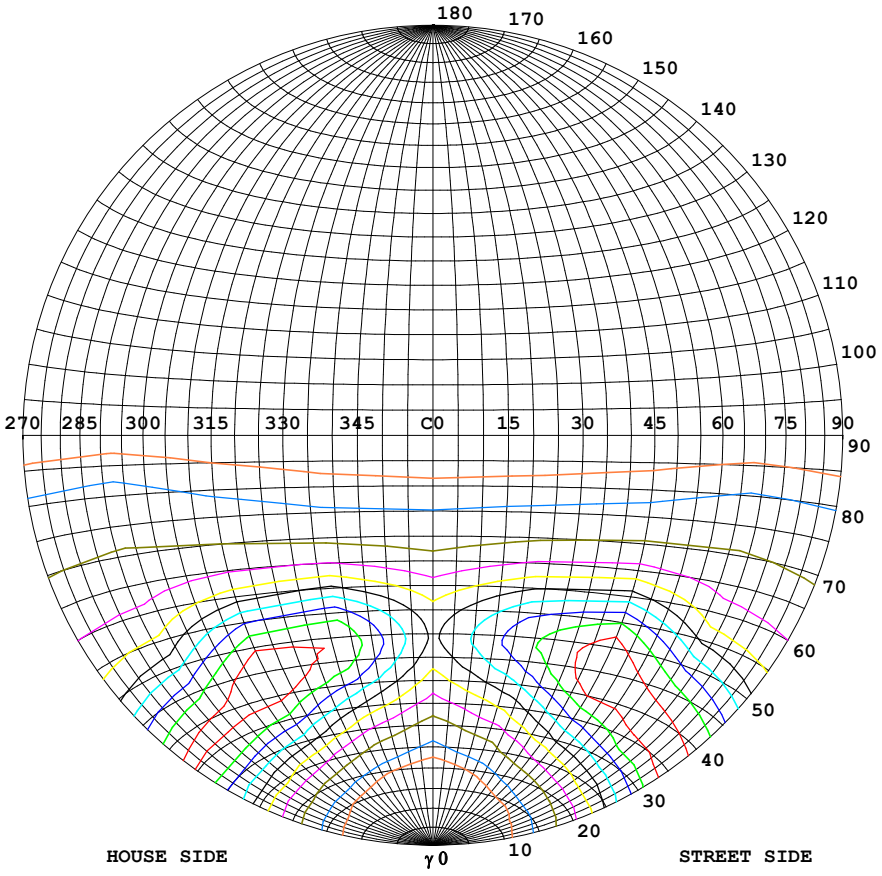
HOUSE SIDE Max @ γ = 44.0DEG STREET SIDE

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:120.00V I:0.1800A P:21.273W PF:0.9850 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2536.45x1 lm		
NAME: LSBO24W-3CCT	TYPE: 24W	WEIGHT:
SPEC.: 4000K	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.At80:57.70cd/klm
Max.At90:8.523cd/klm
Max.80-90:57.70cd/klm
NRB 5101:Limited[4.4%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	1193
90%	1074
80%	955
70%	835
60%	716
50%	597
40%	477
30%	358
20%	239
10%	119
5%	60

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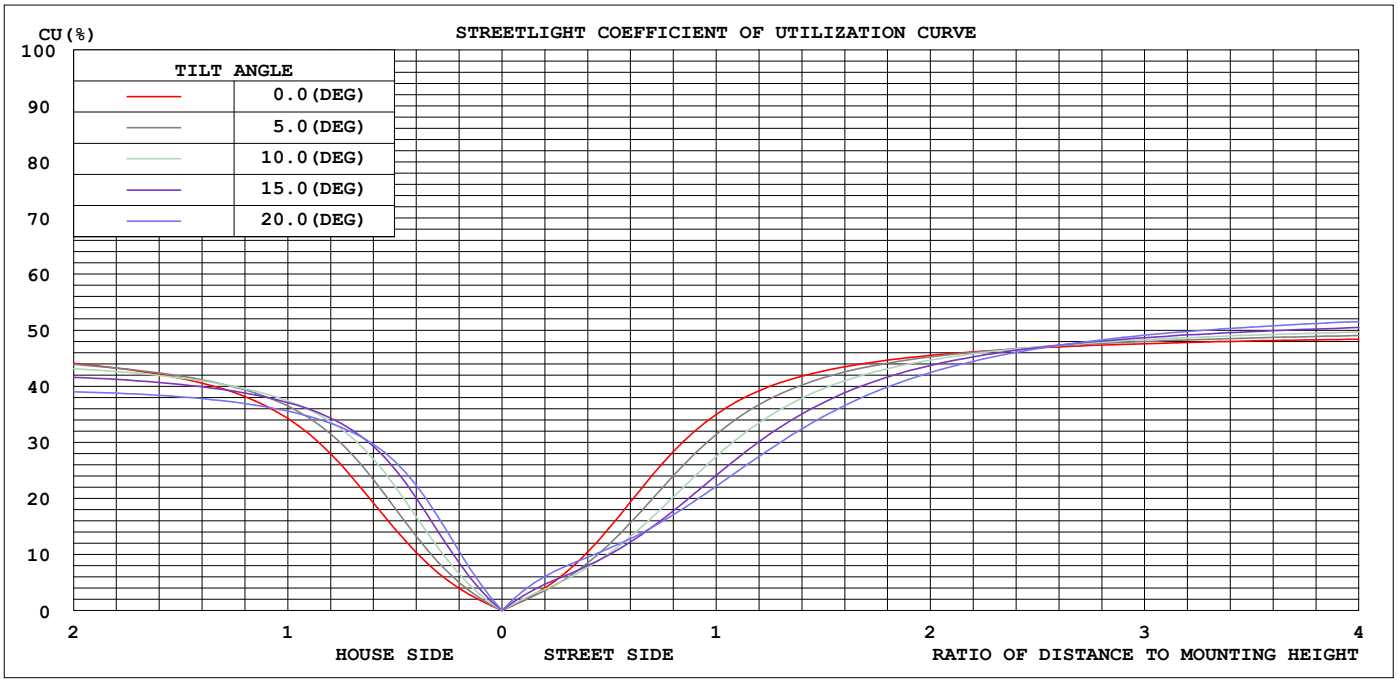
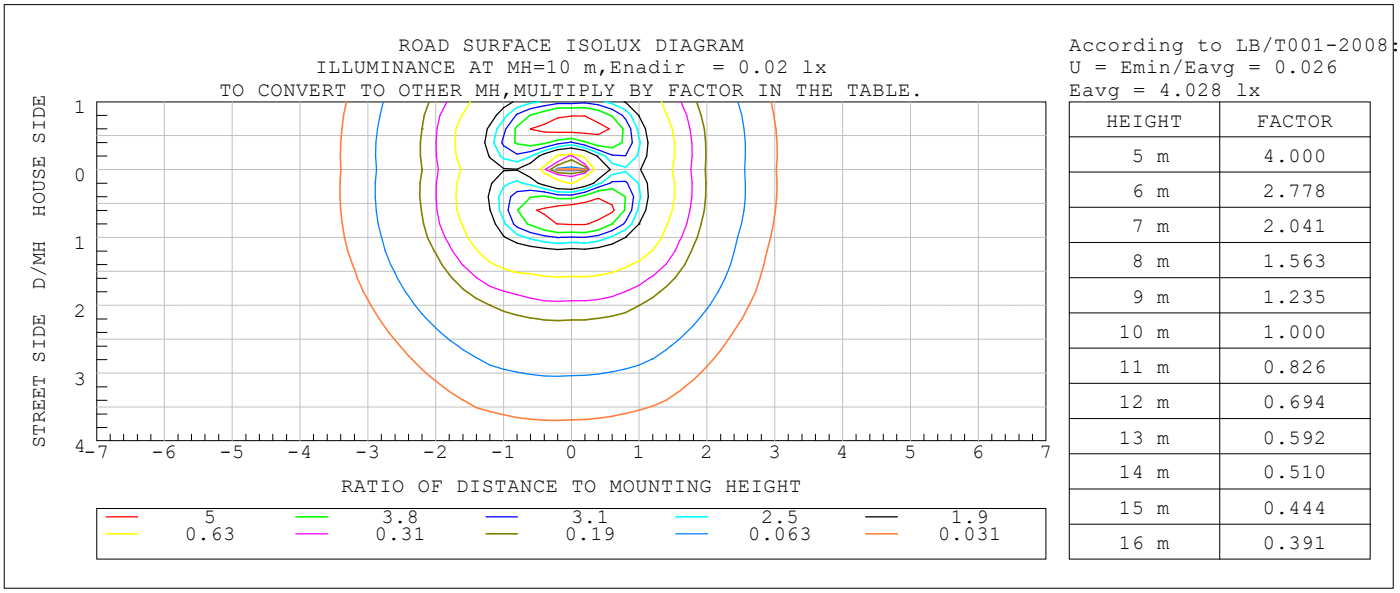
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.600m [K=1.0000]
Remarks:

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM





According to LB/T001-2008:
U = Emin/Eavg = 0.026
Eavg = 4.028 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

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:

ZONAL FLUX DIAGRAM

Test:U:120.00V I:0.1800A P:21.273W PF:0.9850 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2536.45x1 lm		
NAME: LSBO24W-3CCT	TYPE: 24W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.15	Shielding Angle:

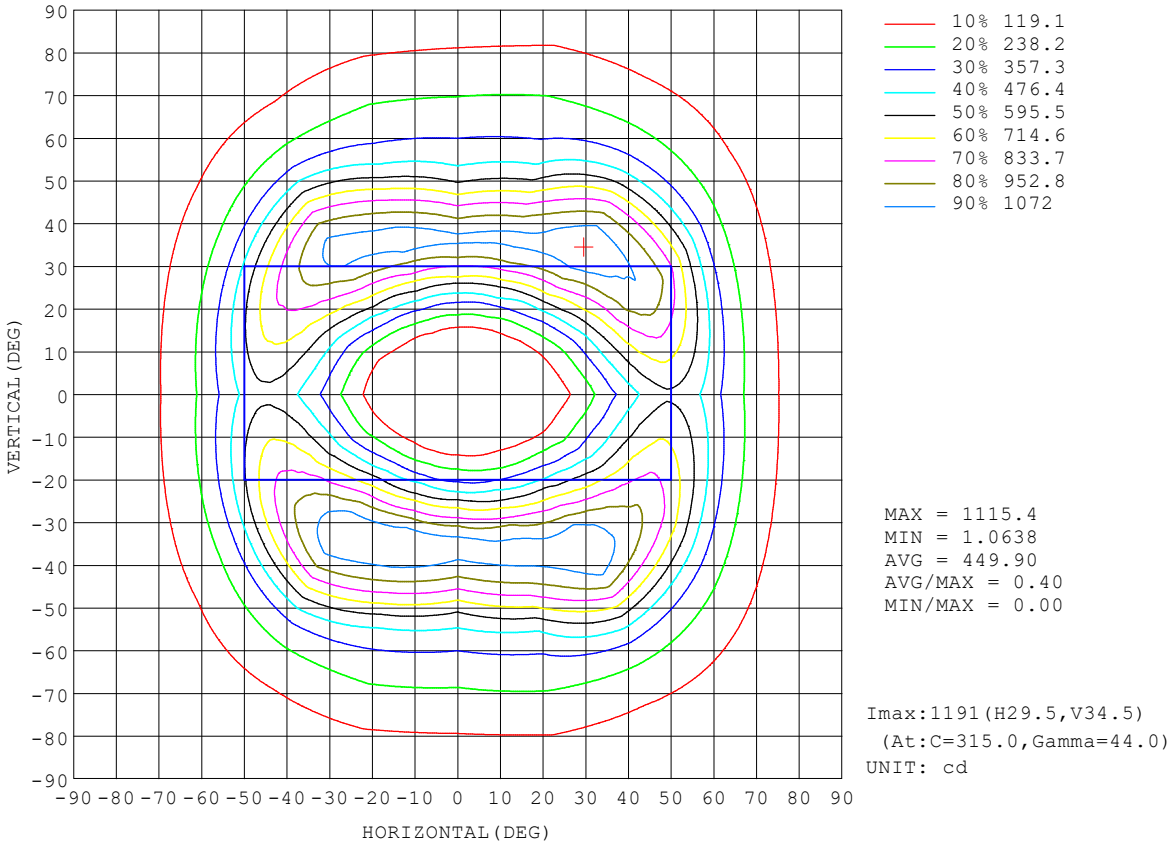
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1.509	4.020	33.79	14.58	2.243	3.328	6.168	2.673	0- 10	0.2809	0.2809	0.01,0.01
20	14.76	189.0	332.4	278.3	70.64	217.3	284.7	171.8	10- 20	25.70	25.98	1.02,1.02
30	185.5	616.3	909.1	770.6	300.8	688.0	832.9	638.7	20- 30	189.7	215.7	8.5,8.5
40	423.2	1078	1041	1176	516.2	1094	995.3	1121	30- 40	513.6	729.3	28.8,28.8
50	571.6	1131	634.8	964.9	502.9	946.4	580.2	1051	40- 50	699.1	1428	56.3,56.3
60	397.6	659.4	357.7	451.6	261.4	440.5	356.4	544.0	50- 60	550.6	1979	78,78
70	187.6	251.9	223.9	186.4	114.5	175.4	235.3	238.5	60- 70	298.7	2278	89.8,89.8
80	72.13	92.59	111.6	69.59	41.67	70.43	133.1	105.5	70- 80	152.1	2430	95.8,95.8
90	8.713	15.79	16.70	16.78	5.873	18.18	20.59	19.34	80- 90	53.02	2483	97.9,97.9
100	4.725	12.59	14.18	13.49	6.390	15.45	16.93	15.63	90-100	14.93	2498	98.5,98.5
110	5.190	6.879	10.66	7.130	6.853	8.998	13.35	8.948	100-110	11.74	2509	98.9,98.9
120	5.061	5.602	7.376	6.808	6.532	8.040	9.129	7.608	110-120	7.686	2517	99.2,99.2
130	5.628	5.983	6.783	6.982	6.744	7.879	8.233	7.240	120-130	6.326	2523	99.5,99.5
140	6.531	5.005	6.480	5.931	6.879	6.226	7.050	6.216	130-140	5.060	2529	99.7,99.7
150	6.241	4.964	5.558	6.337	6.408	5.106	5.163	4.822	140-150	3.708	2532	99.8,99.8
160	4.964	4.919	5.061	6.190	4.384	4.707	4.113	4.094	150-160	2.392	2535	99.9,99.9
170	5.210	5.145	5.138	5.538	4.725	4.784	4.243	4.171	160-170	1.351	2536	100,100
180	4.481	4.810	4.700	4.487	4.468	4.810	4.700	4.493	170-180	0.4601	2536	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

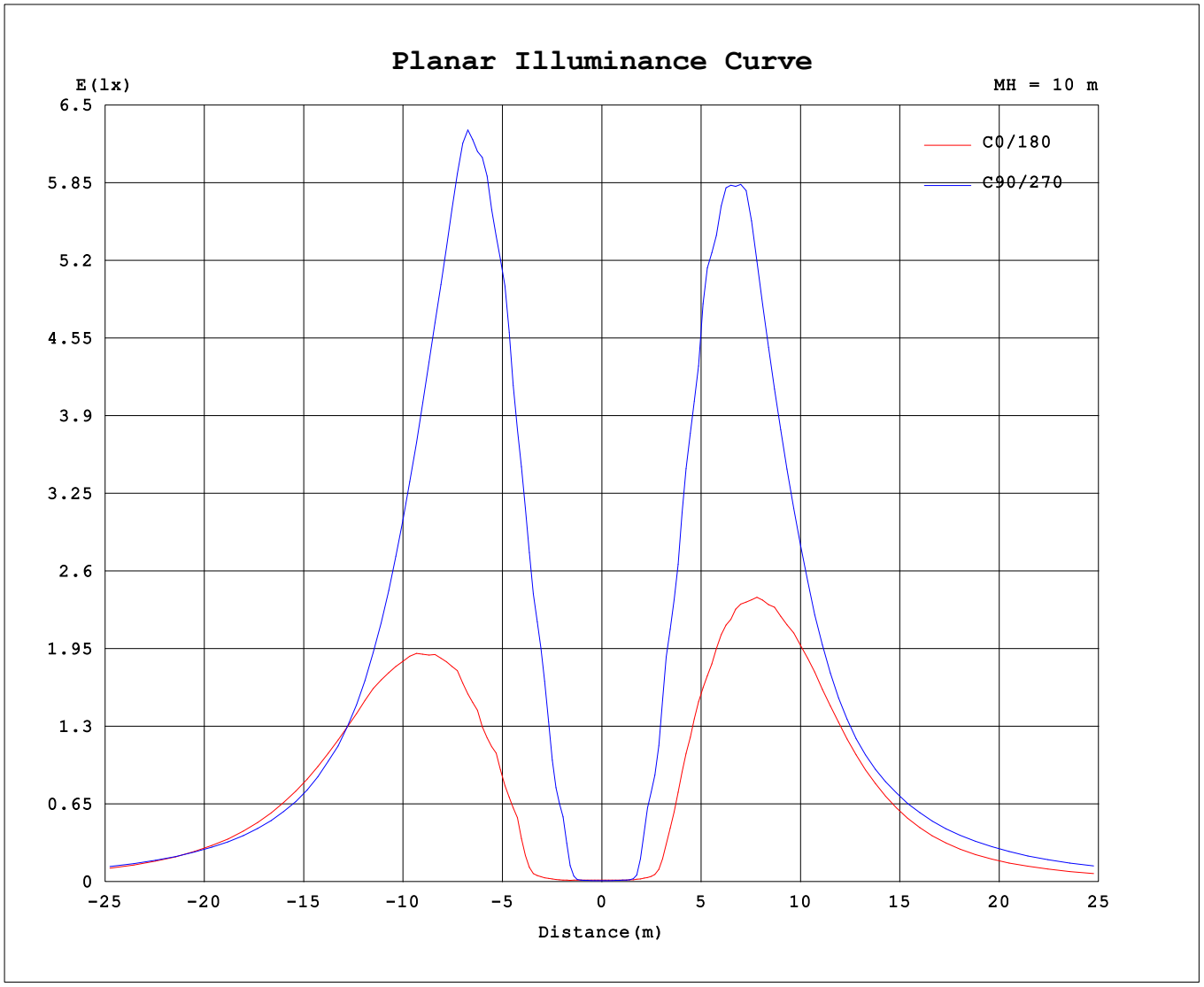
Test:U:120.00V I:0.1800A P:21.273W PF:0.9850 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2536.45x1 lm		
NAME: LSBO24W-3CCT	TYPE: 24W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.15	Shielding Angle:



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



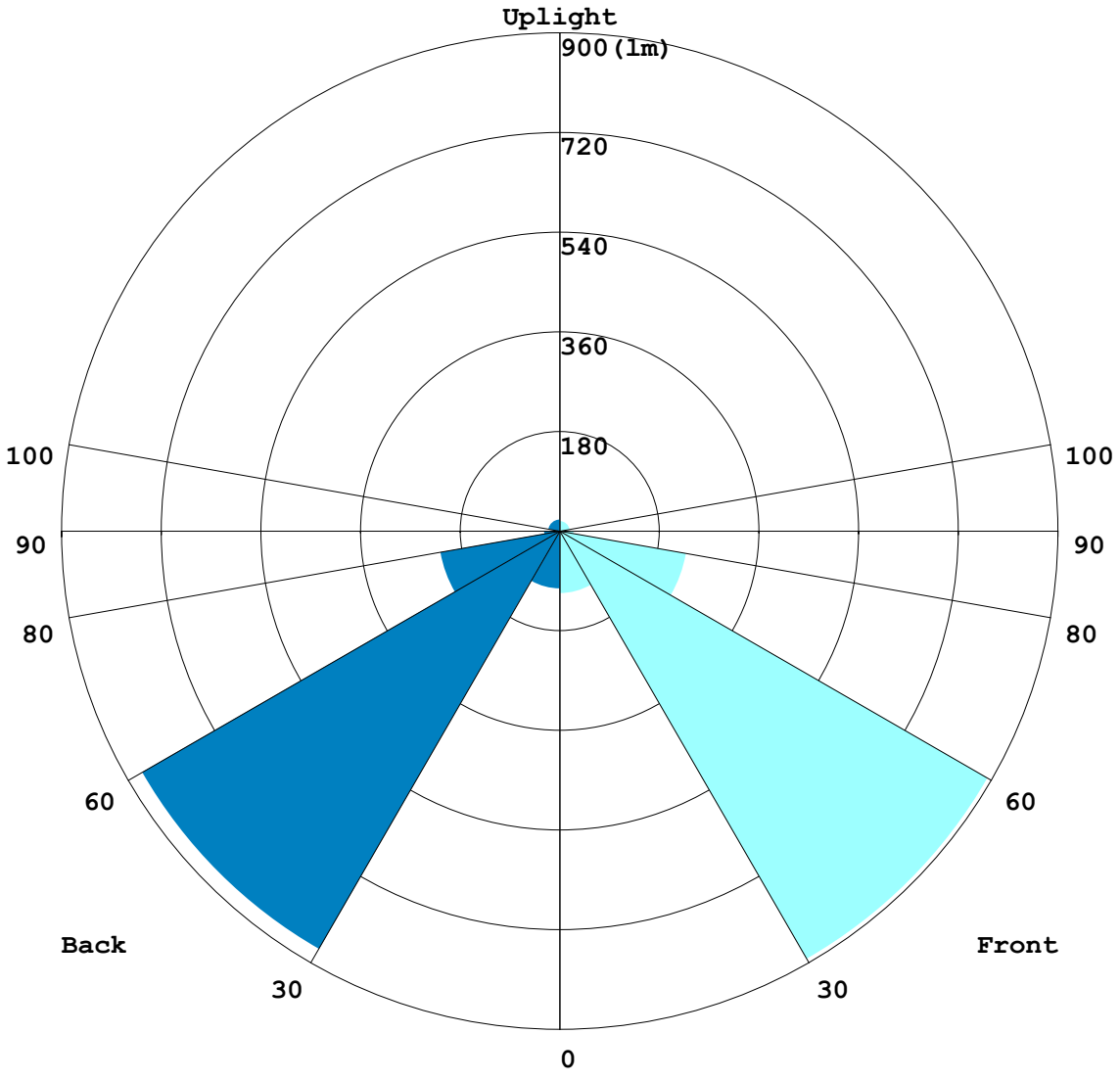
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-5-29

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:120.00V I:0.1800A P:21.273W PF:0.9850 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2536.45x1 lm		
NAME: LSBO24W-3CCT	TYPE: 24W	WEIGHT:
SPEC.: 4000K	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:120.00V I:0.1800A P:21.273W PF:0.9850 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2536.45x1 lm		
NAME: LSBO24W-3CCT	TYPE: 24W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 1
MFR.:	SUR.: 0.15	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	111.89	4.4
FM - Front-Medium(30-60)	892.21	35.2
FH - Front-High(60-80)	231.7	9.1
FVH - Front-Very High(80-90)	24.858	1.0
Total Forward Light	1285.5	50.7
BL - Back-Low(0-30)	103.81	4.1
BM - Back-Medium(30-60)	871.09	34.3
BH - Back-High(60-80)	219.08	8.6
BVH - Back-Very High(80-90)	28.164	1.1
Total Back Light	1250.9	49.3
UL - Uplight-Low(90-100)	14.93	0.6
UH - Uplight-High(100-180)	38.719	1.5
Total Up Light	53.649	2.1

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

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1222.1	28.756	1250.9
Street Side	1260.6	24.893	1285.5

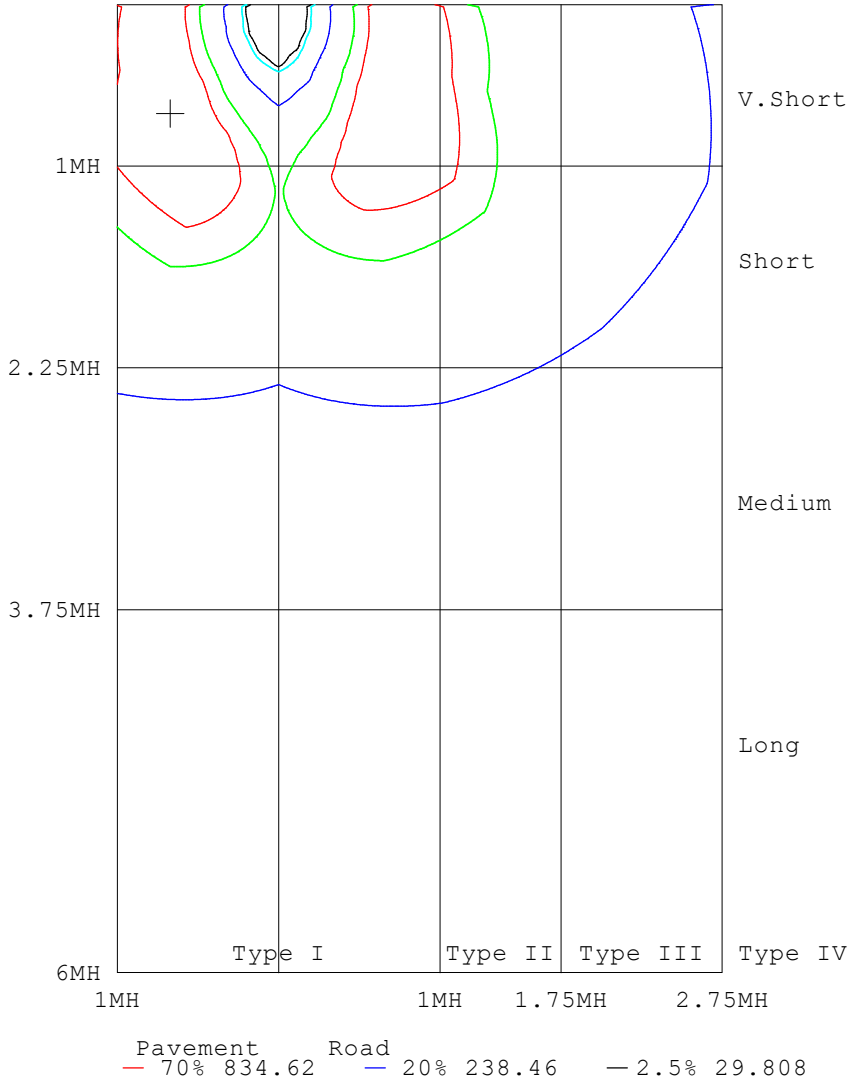
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2024-5-29

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:120.00V I:0.1800A P:21.273W PF:0.9850 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2536.45x1 lm		
NAME: LSBO24W-3CCT	TYPE: 24W	WEIGHT:
SPEC.: 4000K	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℃
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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:120.00V I:0.1800A P:21.273W PF:0.9850 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2536.45x1 lm		
NAME: LSBO24W-3CCT	TYPE: 24W	WEIGHT:
SPEC.: 4000K	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	1.59	1.68	1.90	1.59	1.07	1.49	1.85	1.68	1.59	1.68	1.90	1.59	1.07	1.49	1.85	1.68			
5	1.51	1.68	2.04	1.86	1.38	1.76	1.91	1.65	1.58	1.62	1.90	1.75	1.33	1.73	1.92	1.66			
10	1.51	2.13	4.02	15.6	33.8	27.3	14.6	3.25	2.24	2.27	3.33	6.45	6.17	4.45	2.67	1.82			
15	3.20	11.0	70.6	109	149	137	111	49.6	6.87	16.1	62.7	106	99.4	87.7	41.0	8.19			
20	14.8	78.8	189	274	332	334	278	156	70.6	117	217	305	285	256	172	71.0			
25	95.1	199	380	516	618	593	503	301	183	262	443	551	540	511	372	198			
30	185	334	616	787	909	887	771	486	301	440	688	831	833	795	639	367			
35	303	505	849	1034	1124	1140	1011	671	423	625	929	1066	1062	1034	912	589			
40	423	689	1078	1116	1041	1143	1176	827	516	778	1094	1109	995	1079	1121	815			
45	522	850	1181	1003	857	991	1130	880	560	836	1104	948	796	911	1182	998			
50	572	913	1131	804	635	772	965	759	503	748	946	729	580	694	1051	1045			
55	512	803	946	572	466	540	706	544	380	542	697	513	444	506	824	894			
60	398	587	659	409	358	392	452	338	261	339	441	372	356	383	544	617			
65	279	369	406	319	281	299	284	210	173	209	272	292	289	310	349	361			
70	188	227	252	249	224	230	186	133	115	134	175	231	235	252	238	217			
75	121	137	157	187	171	170	118	82.5	74.6	84.8	113	176	187	200	164	132			
80	72.1	78.8	92.6	125	112	110	69.6	48.2	41.7	50.7	70.4	119	133	146	106	79.3			
85	34.0	39.7	47.7	65.7	51.7	53.4	34.3	22.9	17.3	25.3	38.8	64.7	68.2	86.7	59.0	43.7			
90	8.71	11.7	15.8	16.8	16.7	17.8	16.8	11.5	5.87	12.0	18.2	20.0	20.6	21.6	19.3	15.0			
95	4.66	9.26	13.9	15.1	15.3	16.1	14.9	10.3	6.07	11.0	16.6	18.5	18.1	18.5	17.1	11.9			
100	4.73	8.41	12.6	13.9	14.2	14.8	13.5	9.37	6.39	10.4	15.4	17.3	16.9	17.3	15.6	10.9			
105	4.91	7.82	9.93	12.6	13.1	13.4	10.3	8.64	6.74	9.80	12.4	15.9	15.8	15.9	12.7	10.1			
110	5.19	6.46	6.88	10.2	10.7	10.8	7.13	6.73	6.85	8.13	9.00	13.2	13.3	13.1	8.95	8.36			
115	5.18	5.38	5.69	8.03	8.09	8.68	6.56	5.47	6.34	6.78	7.98	10.8	10.3	10.2	7.75	6.95			
120	5.06	5.06	5.60	7.38	7.38	8.16	6.81	5.11	6.53	6.36	8.04	9.89	9.13	9.38	7.61	6.38			
125	5.43	5.51	5.83	7.01	7.21	7.96	7.07	5.51	6.48	6.54	8.11	9.30	8.70	8.56	7.40	6.67			
130	5.63	5.51	5.98	6.66	6.78	7.76	6.98	5.82	6.74	6.56	7.88	8.67	8.23	7.89	7.24	6.31			
135	6.22	5.25	5.85	6.23	6.67	6.82	6.27	6.04	6.43	6.29	7.18	7.54	7.75	7.31	6.51	5.75			
140	6.53	5.29	5.00	5.89	6.48	6.40	5.93	6.08	6.88	6.03	6.23	6.59	7.05	7.13	6.22	5.58			
145	6.56	5.49	5.17	5.56	6.02	6.64	6.11	6.09	6.63	5.74	5.45	6.18	6.03	5.74	5.62	5.38			
150	6.24	5.66	4.96	5.36	5.56	6.40	6.34	5.80	6.41	5.05	5.11	5.84	5.16	5.02	4.82	5.18			
155	5.15	5.49	5.03	4.99	5.17	6.49	6.48	5.54	4.97	4.78	5.17	5.05	4.49	4.12	3.98	4.79			
160	4.96	4.85	4.92	4.75	5.06	6.30	6.19	5.36	4.38	4.60	4.71	4.55	4.11	3.84	4.09	4.11			
165	5.01	5.14	5.09	4.96	5.04	5.39	5.49	5.32	4.33	4.49	4.70	4.51	4.08	3.86	4.13	4.18			
170	5.21	5.77	5.15	5.40	5.14	5.14	5.54	5.09	4.73	4.61	4.78	4.58	4.24	4.55	4.17	4.85			
175	4.69	4.82	5.00	5.00	4.94	4.91	4.82	4.67	4.35	5.20	4.75	4.73	4.45	4.29	4.29	4.32			
180	4.48	4.59	4.81	4.85	4.70	4.55	4.49	4.40	4.47	4.59	4.81	4.87	4.70	4.54	4.49	4.40			

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
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Operators:DAMIN
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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: