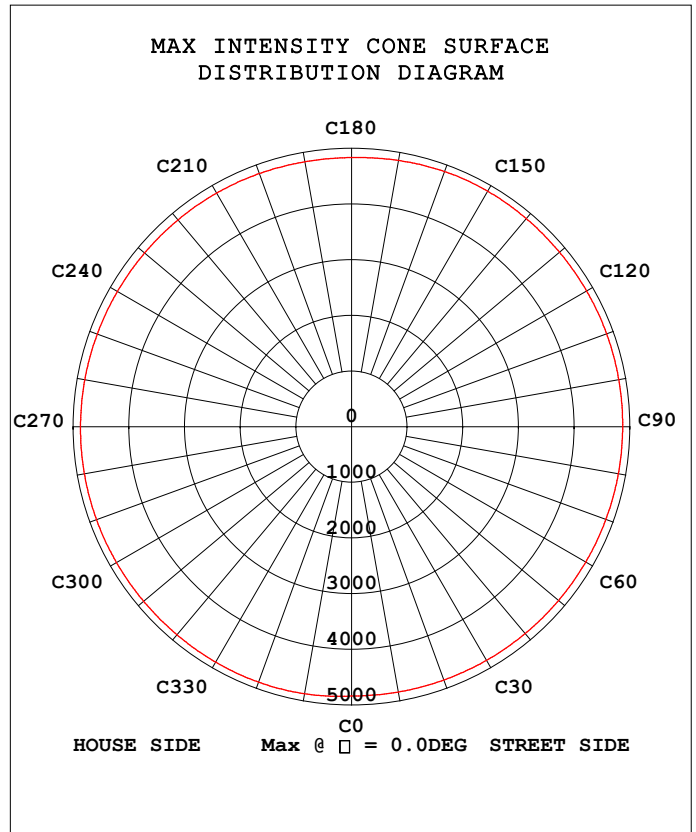
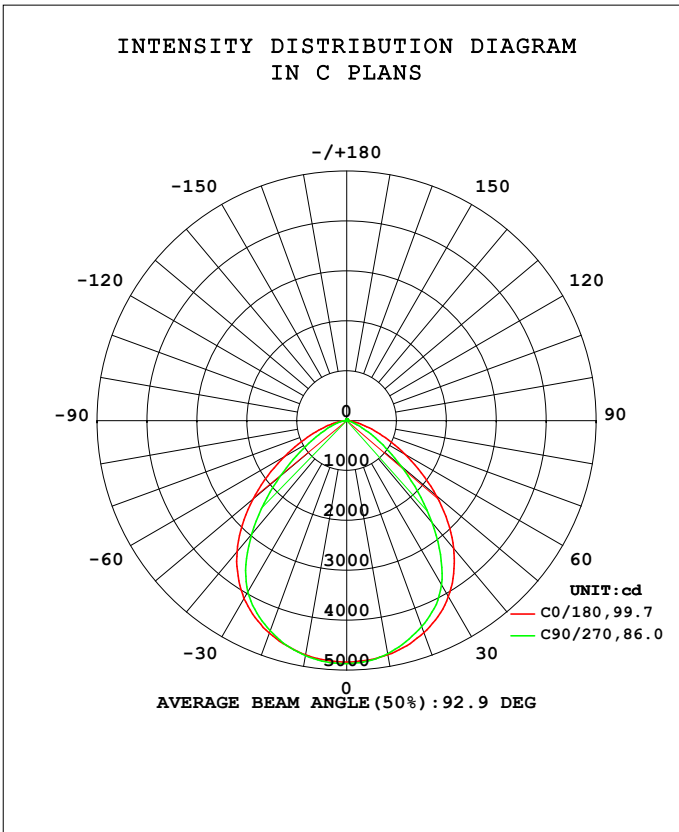


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:277.70V I:0.2790A P:69.910W PF:0.9427 Freq:50.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10427.9x1 lm
NAME: ASD-FL01K-75BK
SPEC.: 4000K
MFR.: ASD Lighting Corp

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	ASD-FL01K-75BK	I _{max} (cd)	4884	<input type="checkbox"/> street_up (%)	0.4
NOMINAL POWER (W)	75	LOR (%)	100.0	<input type="checkbox"/> street_down (%)	47.9
RATED VOLTAGE (V)	277	TOTAL FLUX (lm)	10428	<input type="checkbox"/> house_up (%)	0.5
NOMINAL FLUX (lm)	10428	MAXIMUM @ (C, <input type="checkbox"/>)	158,0.0	<input type="checkbox"/> house_down (%)	51.2
LAMPS INSIDE	1	<input type="checkbox"/> up (%)	0.9	76 FLASHAREA (m2)	
TEST VOLTAGE (V)	277	<input type="checkbox"/> down (%)	99.1	SLI	

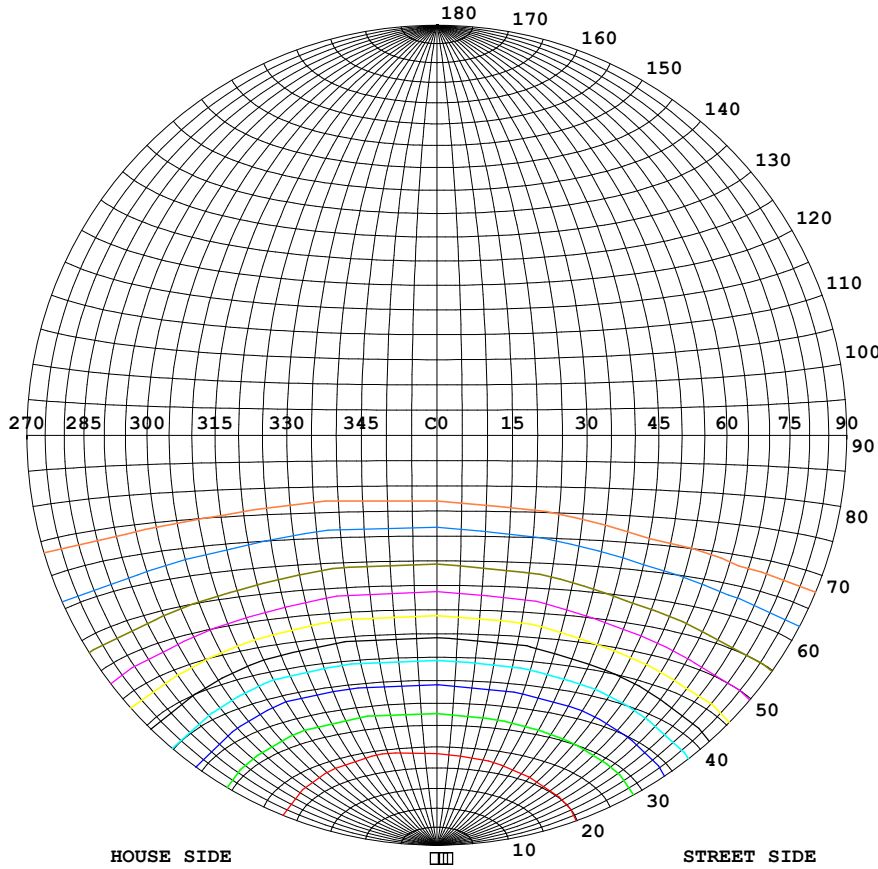


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2023-12-15

Range: 0 - 180DEG
 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:277.70V I:0.2790A P:69.910W PF:0.9427 Freq:50.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10427.9x1 lm
NAME: ASD-FL01K-75BK
SPEC.: 4000K
MFR.: ASD Lighting Corp



Classification:

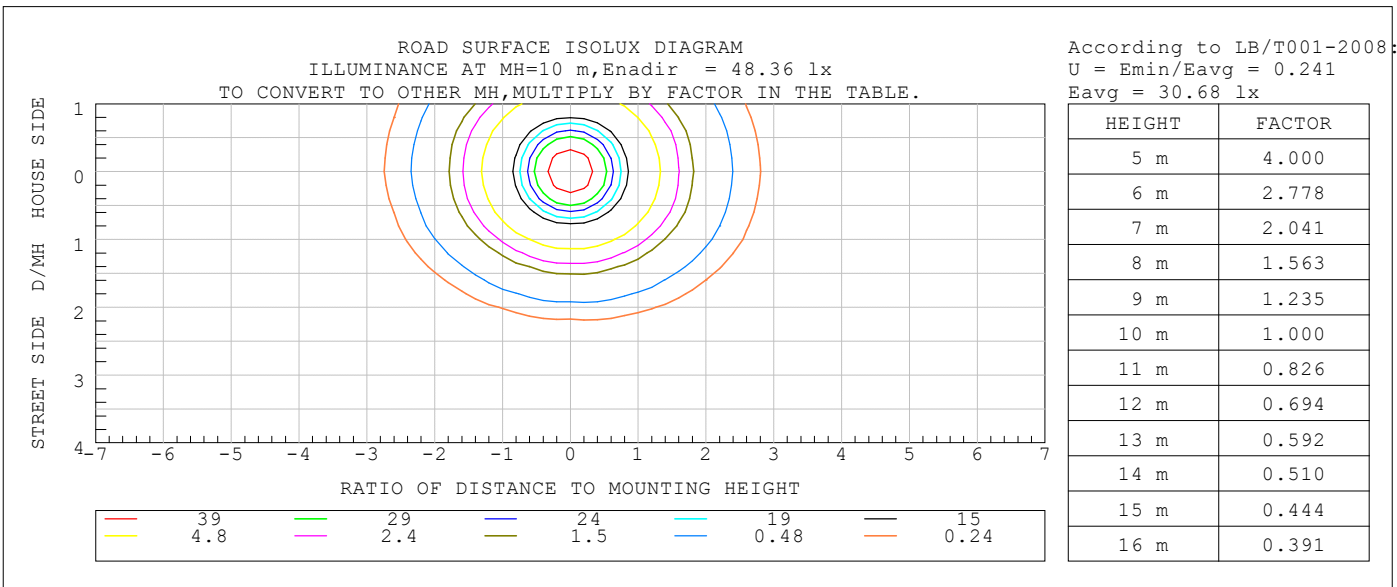
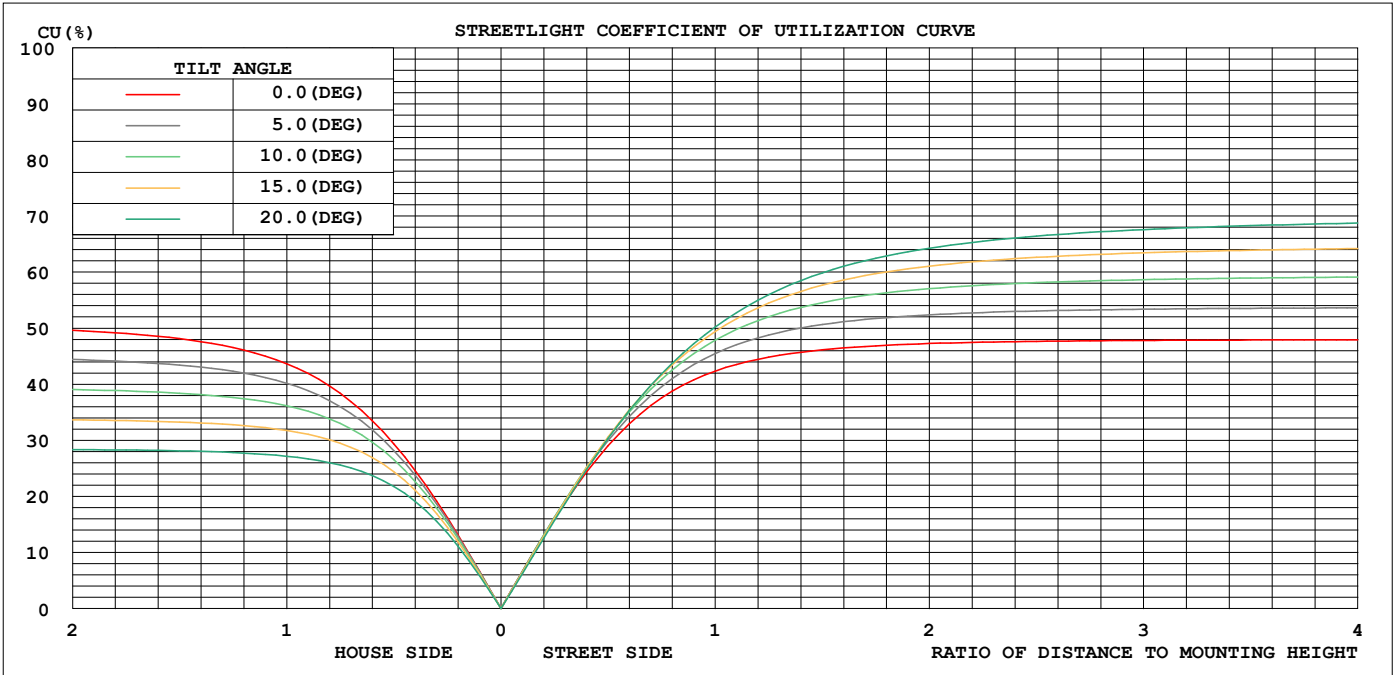
IES:Type I - Very Short
 CIE:Narrow - Short
 IES:Cut-off
 CIE:Full cut-off
 Max.At80:18.27cd/klm
 Max.At90:0.6076cd/klm
 Max.80-90:18.27cd/klm
 NRB 5101:Limited[3.3%]

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	4884
— 90%	4396
— 80%	3907
— 70%	3419
— 60%	2930
— 50%	2442
— 40%	1954
— 30%	1465
— 20%	977
— 10%	488
— 5%	244

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-15

Range: 0 - 180DEG
 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**



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2023-12-15

Range: 0 - 180DEG
 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:277.70V I:0.2790A P:69.910W PF:0.9427 Freq:50.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10427.9x1 lm
NAME: ASD-FL01K-75BK
SPEC.: 4000K
MFR.: ASD Lighting Corp

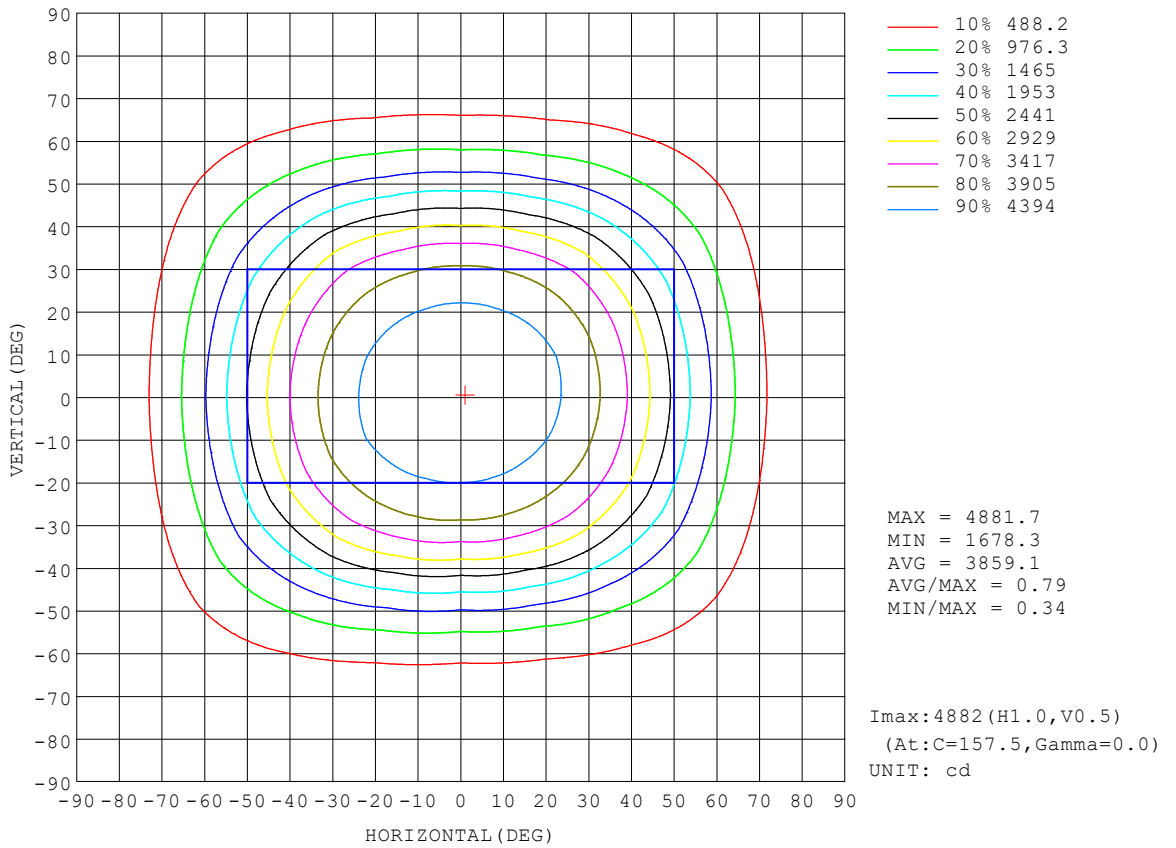
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum,lamp
10	4759	4750	4740	4779	4764	4776	4784	4796	0- 10	459.9	459.9	4.41,4.41
20	4518	4433	4391	4482	4530	4517	4480	4528	10- 20	1313	1772	17,17
30	4077	3931	3798	3992	4116	4052	3962	4054	20- 30	1967	3740	35.9,35.9
40	3334	3087	2659	3208	3418	3332	2954	3290	30- 40	2257	5997	57.5,57.5
50	2350	1869	1439	2033	2458	2202	1754	2133	40- 50	2000	7998	76.7,76.7
60	1345	876.0	616.3	993.5	1438	1130	823.4	1075	50- 60	1348	9345	89.6,89.6
70	587.9	290.3	173.9	370.2	658.2	471.6	339.1	436.7	60- 70	693.0	10038	96.3,96.3
80	139.7	29.51	11.70	47.30	190.5	142.7	106.4	122.9	70- 80	252.2	10291	98.7,98.7
90	3.230	2.760	2.134	2.455	5.190	5.857	4.033	4.643	80- 90	38.37	10329	99.1,99.1
100	5.370	5.093	4.114	4.525	7.760	6.867	5.494	6.998	90-100	4.903	10334	99.1,99.1
110	8.624	8.303	7.157	7.530	12.16	10.42	9.222	11.26	100-110	7.864	10342	99.2,99.2
120	12.63	12.28	11.06	11.28	17.14	15.37	14.49	16.48	110-120	11.43	10353	99.3,99.3
130	17.05	16.75	15.62	15.65	22.15	20.50	20.16	21.84	120-130	14.55	10368	99.4,99.4
140	21.86	21.65	20.57	20.45	26.89	25.46	25.62	26.94	130-140	16.38	10384	99.6,99.6
150	26.83	26.60	25.66	25.65	31.10	30.03	30.28	31.47	140-150	16.34	10400	99.7,99.7
160	31.87	31.61	31.01	31.00	34.56	33.82	34.11	34.89	150-160	14.14	10415	99.9,99.9
170	36.11	35.81	35.72	35.55	37.12	36.65	36.99	37.23	160-170	9.786	10424	100,100
180	38.32	38.05	38.31	38.16	38.30	38.03	38.32	38.12	170-180	3.544	10428	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-15

□ Range: 0 - 180DEG
 □ 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

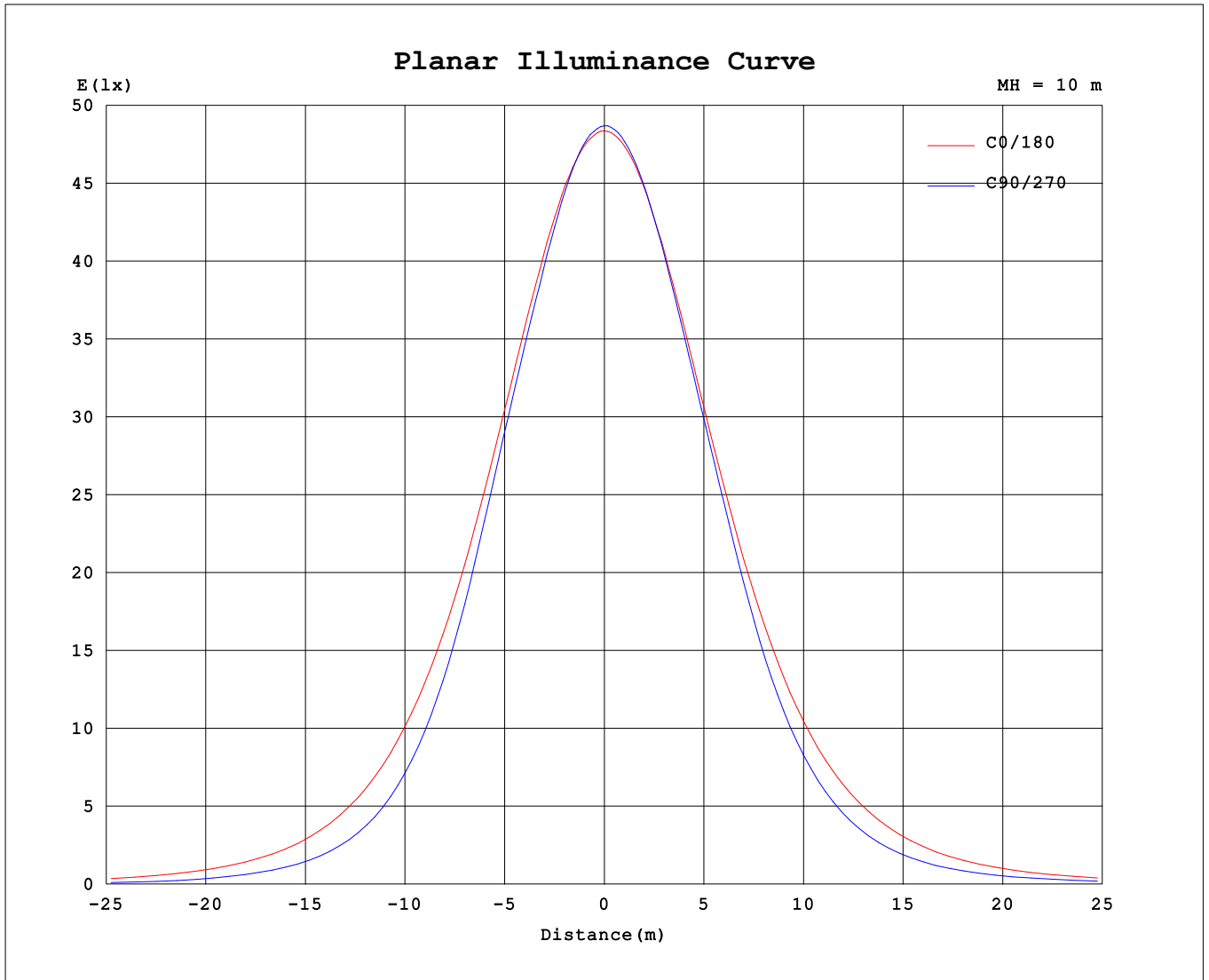
Test:U:277.70V I:0.2790A P:69.910W PF:0.9427 Freq:50.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10427.9x1 lm
NAME: ASD-FL01K-75BK
SPEC.: 4000K
MFR.: ASD Lighting Corp



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-15

Range: 0 - 180DEG
 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



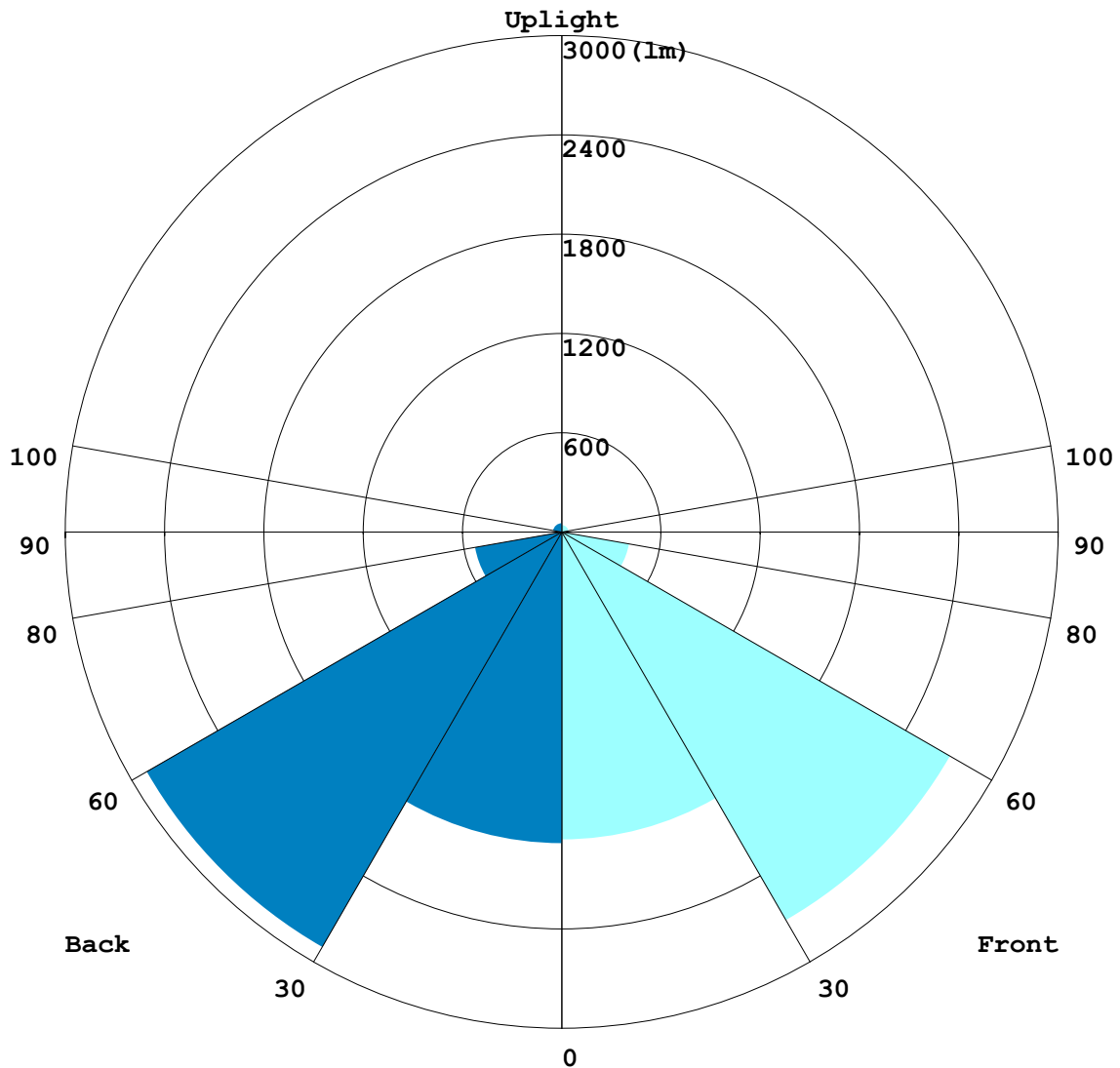
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2023-12-15

Range: 0 - 180DEG
 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:277.70V I:0.2790A P:69.910W PF:0.9427 Freq:50.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10427.9x1 lm
NAME: ASD-FL01K-75BK
SPEC.: 4000K
MFR.: ASD Lighting Corp

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-15

Range: 0 - 180DEG
 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:277.70V I:0.2790A P:69.910W PF:0.9427 Freq:50.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10427.9x1 lm
NAME: ASD-FL01K-75BK
SPEC.: 4000K
MFR.: ASD Lighting Corp

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	1858.9	17.8
FM - Front-Medium(30-60)	2709.6	26.0
FH - Front-High(60-80)	413.67	4.0
FVH - Front-Very High(80-90)	8.5609	0.1
Total Forward Light	5034.7	48.3

BL - Back-Low(0-30)	1881.1	18.0
BM - Back-Medium(30-60)	2895.9	27.8
BH - Back-High(60-80)	531.5	5.1
BVH - Back-Very High(80-90)	29.807	0.3
Total Back Light	5393.2	51.7

UL - Uplight-Low(90-100)	4.9034	0.0
UH - Uplight-High(100-180)	94.037	0.9
Total Up Light	98.94	0.9

BUG(Back,Up,Glare) Rating	B3-U3-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	5338.2	54.921	5393.2
Street Side	4990.7	44.019	5034.7

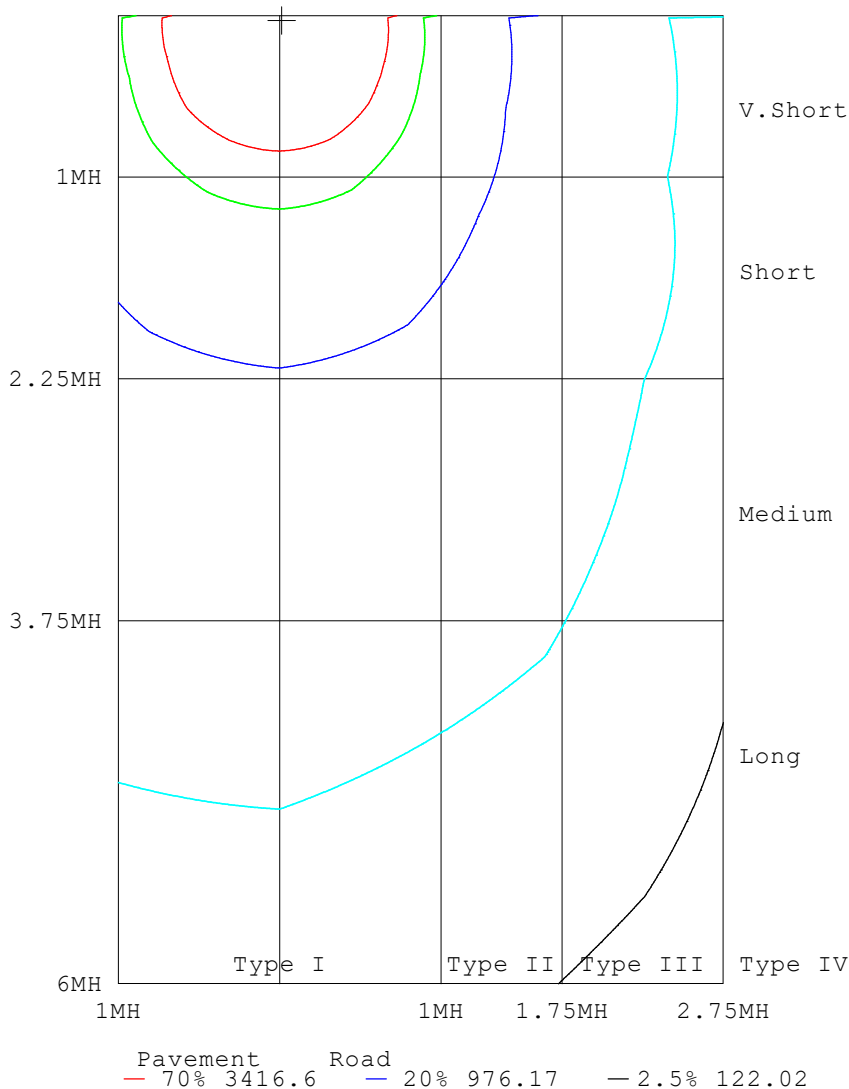
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-15

Range: 0 - 180DEG
 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:277.70V I:0.2790A P:69.910W PF:0.9427 Freq:50.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10427.9x1 lm
NAME: ASD-FL01K-75BK
SPEC.: 4000K
MFR.: ASD Lighting Corp

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-15

— 50% 2440.4 — 5% 244.04

Range: 0 - 180DEG
 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:277.70V I:0.2790A P:69.910W PF:0.9427 Freq:50.01Hz
UTHdi:0.00% ITHdi:0.00% KDisp:0 Lamp Flux:10427.9x1 lm
NAME: ASD-FL01K-75BK
SPEC.: 4000K
MFR.: ASD Lighting Corp

Table--1

UNIT: cd

C (DEG) □ (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	4836	4843	4854	4861	4870	4877	4879	4884	4836	4843	4854	4861	4870	4877	4879	4884			
5	4819	4823	4827	4831	4837	4845	4852	4862	4818	4826	4839	4845	4852	4855	4861	4863			
10	4759	4757	4750	4744	4740	4756	4779	4803	4764	4773	4776	4778	4784	4789	4796	4803			
15	4667	4650	4614	4591	4585	4609	4655	4700	4665	4674	4675	4657	4660	4669	4686	4698			
20	4518	4494	4433	4401	4391	4417	4482	4551	4530	4533	4517	4485	4480	4494	4528	4556			
25	4329	4286	4208	4168	4153	4190	4263	4357	4350	4344	4307	4266	4259	4273	4317	4360			
30	4077	4020	3931	3850	3798	3884	3992	4103	4116	4105	4052	3989	3962	3992	4054	4096			
35	3742	3678	3569	3386	3276	3444	3655	3783	3799	3790	3740	3597	3525	3591	3723	3759			
40	3334	3264	3087	2789	2659	2861	3208	3382	3418	3397	3332	3064	2954	3052	3290	3344			
45	2864	2772	2489	2153	2021	2232	2645	2907	2962	2932	2798	2466	2347	2449	2740	2863			
50	2350	2241	1869	1554	1439	1633	2033	2383	2458	2414	2202	1869	1754	1846	2133	2338			
55	1827	1704	1322	1049	962	1116	1466	1847	1936	1881	1623	1341	1231	1317	1559	1802			
60	1345	1213	876	673	616	724	993	1346	1438	1384	1130	907	823	883	1075	1314			
65	925	803	547	385	337	428	637	920	1008	955	748	589	535	569	703	895			
70	588	482	290	188	174	211	370	579	658	618	472	370	339	355	437	569			
75	328	249	114	80.5	73.4	93.5	159	322	392	368	278	221	204	208	252	328			
80	140	78.3	29.5	15.0	11.7	21.7	47.3	135	190	187	143	115	106	106	123	157			
85	24.3	6.48	2.40	1.84	1.66	1.79	3.21	19.5	55.1	64.0	51.1	41.3	37.3	35.9	38.8	42.6			
90	3.23	3.07	2.76	2.37	2.13	2.17	2.45	2.95	5.19	6.34	5.86	4.43	4.03	4.00	4.64	5.20			
95	4.07	4.11	3.78	3.29	3.01	3.01	3.36	3.65	5.99	5.94	5.35	4.43	4.13	4.54	5.45	6.18			
100	5.37	5.39	5.09	4.50	4.11	4.17	4.52	4.88	7.76	7.39	6.87	5.97	5.49	6.06	7.00	7.88			
105	6.89	6.96	6.59	5.95	5.53	5.53	5.91	6.32	9.85	9.29	8.31	7.34	7.03	7.75	8.92	10.0			
110	8.62	8.70	8.30	7.64	7.16	7.14	7.53	7.99	12.2	11.5	10.4	9.51	9.22	10.0	11.3	12.4			
115	10.6	10.6	10.2	9.50	9.01	8.91	9.33	9.83	14.6	13.9	12.8	12.0	11.8	12.5	13.8	14.9			
120	12.6	12.7	12.3	11.6	11.1	10.9	11.3	11.8	17.1	16.4	15.4	14.6	14.5	15.3	16.5	17.5			
125	14.8	14.9	14.5	13.8	13.3	13.1	13.4	13.9	19.7	18.9	17.9	17.3	17.3	18.1	19.2	20.1			
130	17.0	17.2	16.7	16.1	15.6	15.4	15.6	16.1	22.1	21.4	20.5	20.0	20.2	20.9	21.8	22.7			
135	19.4	19.6	19.1	18.6	18.1	17.8	18.0	18.5	24.6	23.8	23.0	22.7	22.9	23.6	24.4	25.2			
140	21.9	22.1	21.6	21.0	20.6	20.3	20.5	20.9	26.9	26.2	25.5	25.3	25.6	26.3	26.9	27.7			
145	24.4	24.5	24.1	23.5	23.1	22.8	23.0	23.4	29.1	28.5	27.8	27.8	28.1	28.7	29.3	29.9			
150	26.8	27.1	26.6	26.0	25.7	25.4	25.7	26.0	31.1	30.5	30.0	30.0	30.3	30.9	31.5	32.0			
155	29.3	29.5	29.1	28.5	28.3	28.1	28.3	28.5	32.9	32.4	32.0	32.1	32.3	32.8	33.3	33.7			
160	31.9	32.0	31.6	31.1	31.0	30.8	31.0	31.1	34.6	34.0	33.8	33.9	34.1	34.4	34.9	35.3			
165	34.2	34.2	33.9	33.5	33.6	33.4	33.5	33.5	36.0	35.4	35.4	35.6	35.7	35.9	36.2	36.6			
170	36.1	35.9	35.8	35.6	35.7	35.6	35.6	35.5	37.1	36.5	36.7	36.8	37.0	37.0	37.2	37.5			
175	37.5	37.2	37.3	37.2	37.4	37.2	37.2	37.1	37.9	37.4	37.6	37.8	37.9	37.8	38.0	38.1			
180	38.3	37.9	38.1	38.1	38.3	38.1	38.2	38.1	38.3	37.9	38.0	38.1	38.3	38.1	38.1	38.1			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-15

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