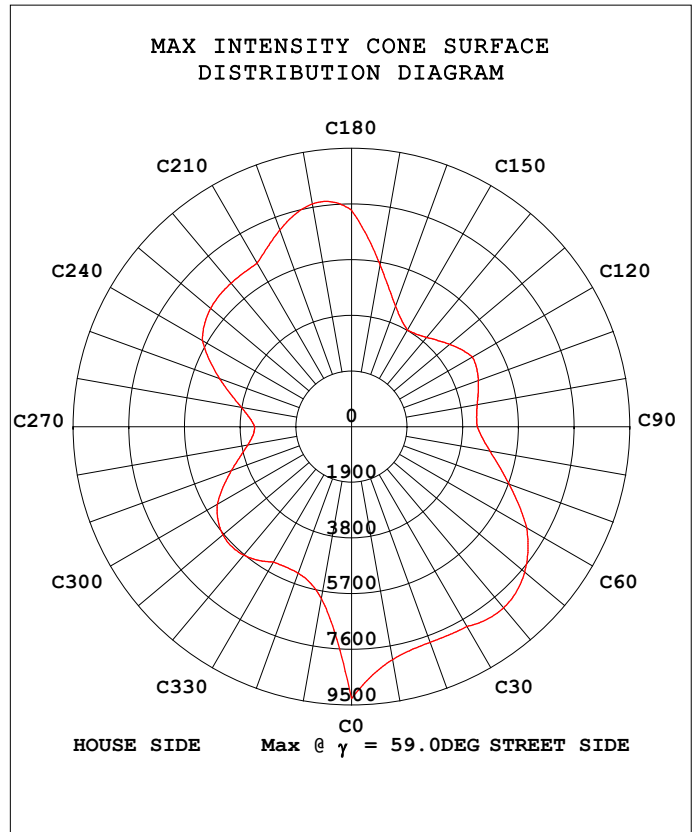
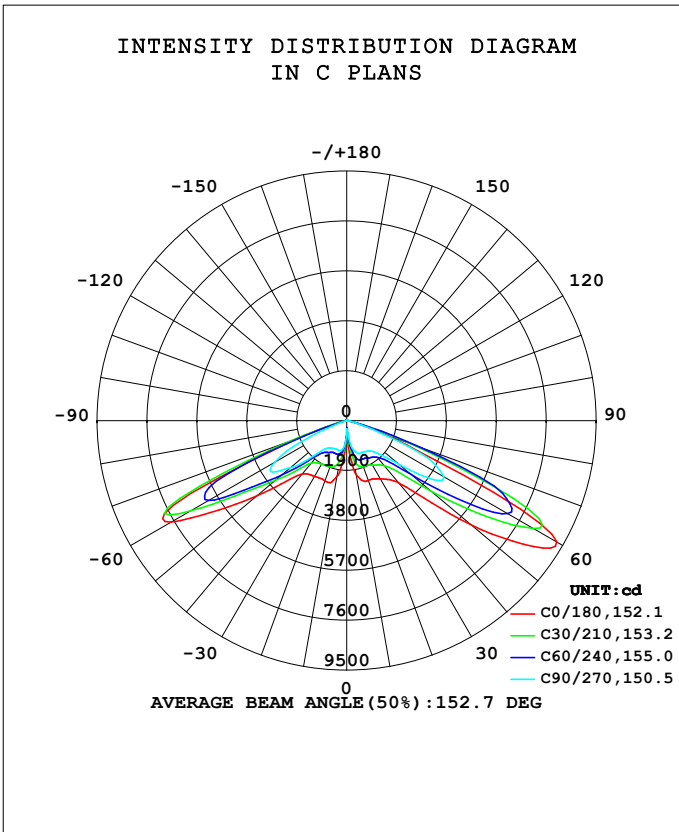


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:230.37V I:0.4365A P:98.350W PF:0.9780 Freq:49.99Hz Lamp Flux:13155.1x1 lm		
NAME: MIVAR-220101	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	220101	Imax (cd)	9278	η street_up (%)	0.3
NOMINAL POWER (W)	100	LOR (%)	100.0	η street_down (%)	52.1
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	13155	η house_up (%)	0.3
NOMINAL FLUX (lm)	13155.1	MAXIMUM @ (C, γ)	0,59.0	η house_down (%)	47.2
LAMPS INSIDE	1	η up (%)	0.6	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	230	η down (%)	99.4	SLI	17.160

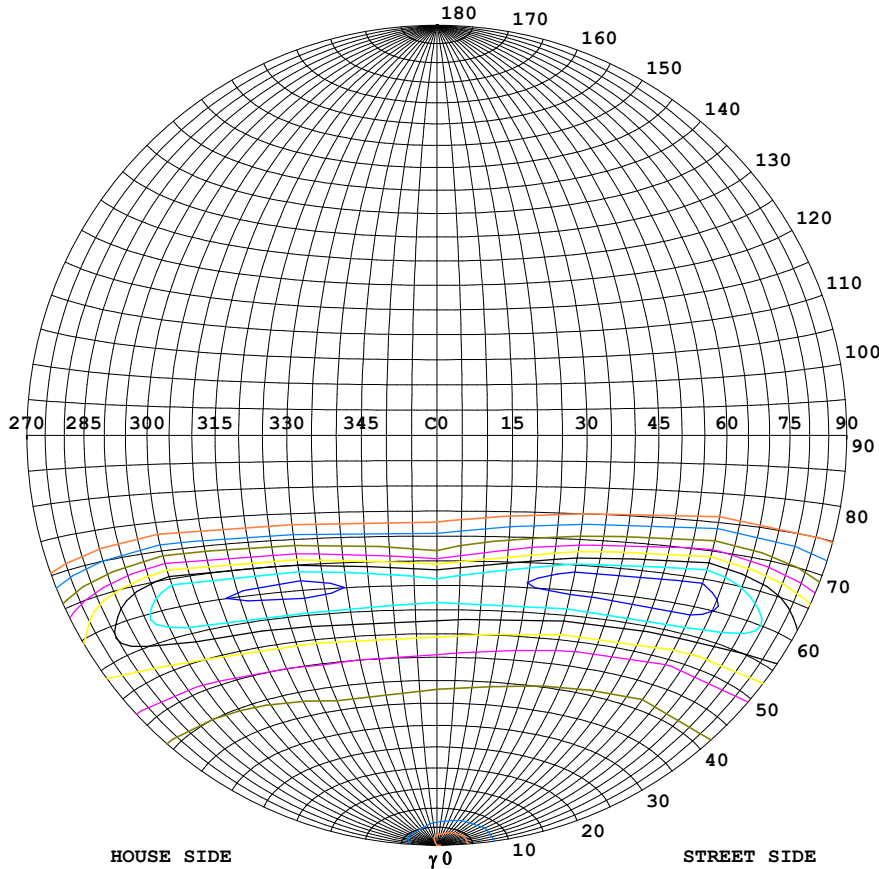


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: ADMIN
 Test Date: 2023-07-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity: 65.0%
 Test Distance: 9.345m [K=1.0000]
 Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:230.37V I:0.4365A P:98.350W PF:0.9780 Freq:49.99Hz Lamp Flux:13155.1x1 lm		
NAME: MIVAR-220101	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:



Classification:

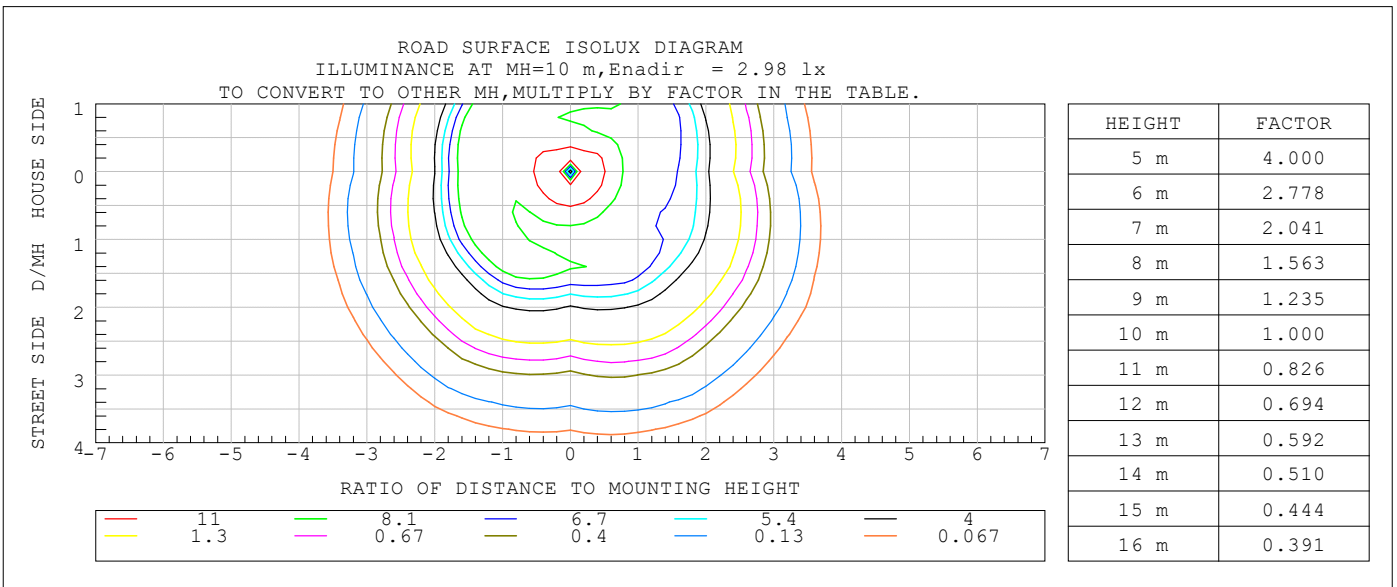
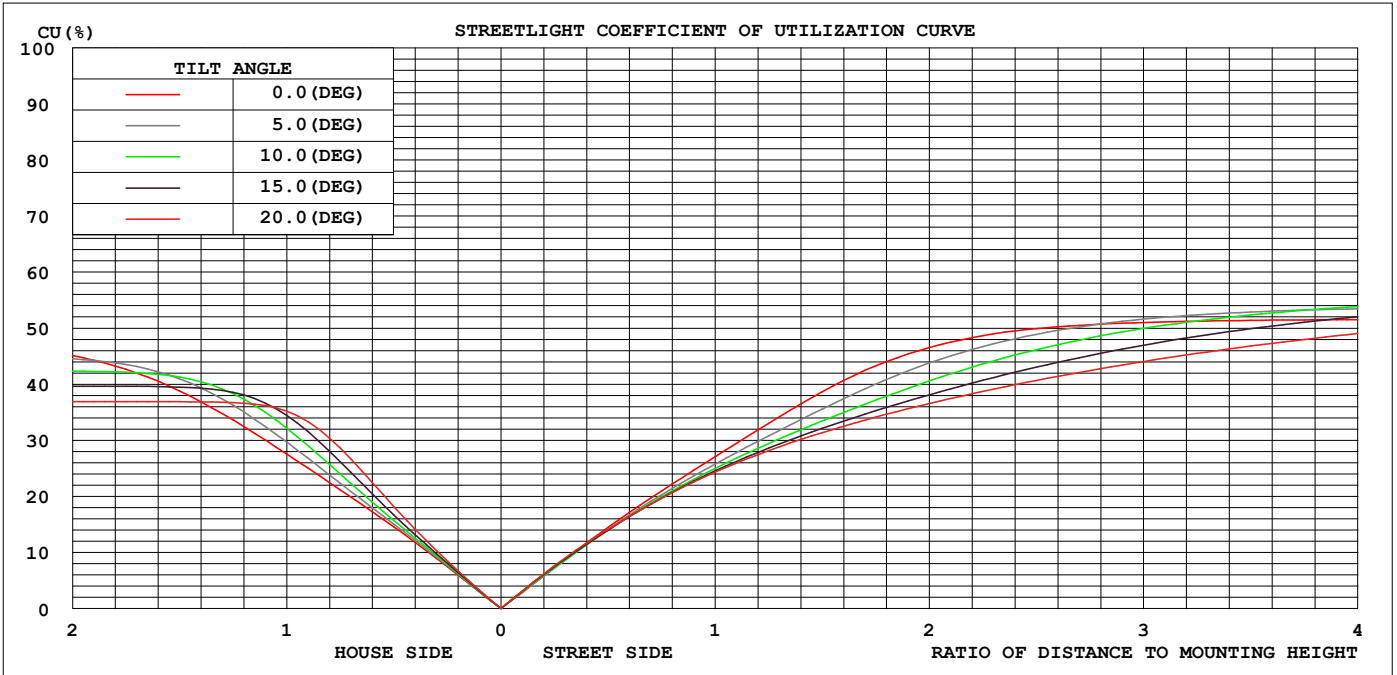
IES:Type III - Short
 CIE:Narrow - Short
 IES:Cut-off
 CIE:Full cut-off
 Max.At80:7.435cd/klm
 Max.At90:1.459cd/klm
 Max.80-90:7.435cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	9278
— 90%	8350
— 80%	7422
— 70%	6495
— 60%	5567
— 50%	4639
— 40%	3711
— 30%	2783
— 20%	1856
— 10%	928
— 5%	464

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ADMIN
 Test Date:2023-07-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:9.345m [K=1.0000]
 Remarks:

**COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM**



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: ADMIN
Test Date: 2023-07-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity: 65.0%
Test Distance: 9.345m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:230.37V I:0.4365A P:98.350W PF:0.9780 Freq:49.99Hz Lamp Flux:13155.1x1 lm		
NAME: MIVAR-220101	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

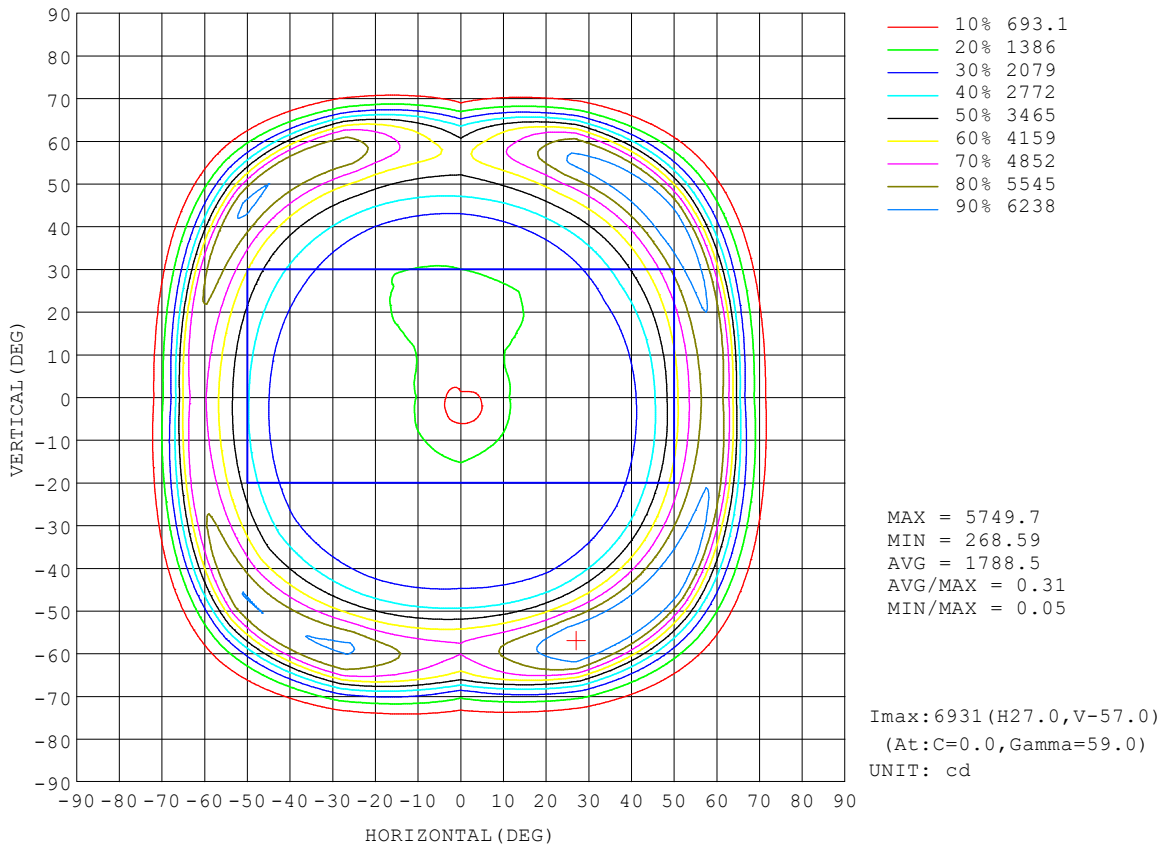
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	2083	1295	991.3	995.6	2141	1402	1143	1021	0- 10	91.02	91.02	0.69,0.69
20	2423	1719	1347	1264	2440	1575	1161	1160	10- 20	401.9	492.9	3.75,3.75
30	2569	1787	1368	1275	2454	1645	1214	1264	20- 30	693.2	1186	9.02,9.02
40	3105	2026	1531	1368	2659	1898	1524	1647	30- 40	1025	2212	16.8,16.8
50	6146	3631	2563	2150	4446	3360	2790	3116	40- 50	1837	4049	30.8,30.8
60	9229	7601	4262	4577	7734	6453	3140	5375	50- 60	4052	8100	61.6,61.6
70	1677	2846	1318	2677	2025	2019	443.5	1098	60- 70	4369	12470	94.8,94.8
80	22.09	77.99	62.39	80.55	22.25	4.579	1.582	2.615	70- 80	590.7	13060	99.3,99.3
90	2.677	8.935	19.20	6.495	3.575	3.434	2.080	2.854	80- 90	9.870	13070	99.4,99.4
100	10.12	10.59	11.70	7.442	12.18	10.17	6.877	7.440	90-100	8.146	13078	99.4,99.4
110	17.74	13.12	9.370	10.16	21.64	15.39	11.39	10.47	100-110	11.49	13090	99.5,99.5
120	22.14	15.59	12.00	12.23	26.39	18.37	14.01	12.58	110-120	13.70	13104	99.6,99.6
130	24.49	17.47	13.97	13.55	28.70	20.07	15.21	13.59	120-130	14.42	13118	99.7,99.7
140	26.38	19.74	14.57	14.60	29.03	21.61	15.34	15.04	130-140	13.22	13131	99.8,99.8
150	26.59	20.56	15.40	16.10	28.42	20.07	14.60	13.32	140-150	11.66	13143	99.9,99.9
160	20.47	16.12	13.03	12.47	21.27	15.16	11.65	10.76	150-160	7.331	13150	100,100
170	18.59	14.30	11.10	10.42	18.92	14.31	11.17	10.40	160-170	3.707	13154	100,100
180	17.47	12.33	9.476	9.092	17.48	12.33	9.476	9.084	170-180	1.171	13155	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ADMIN
 Test Date:2023-07-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:9.345m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

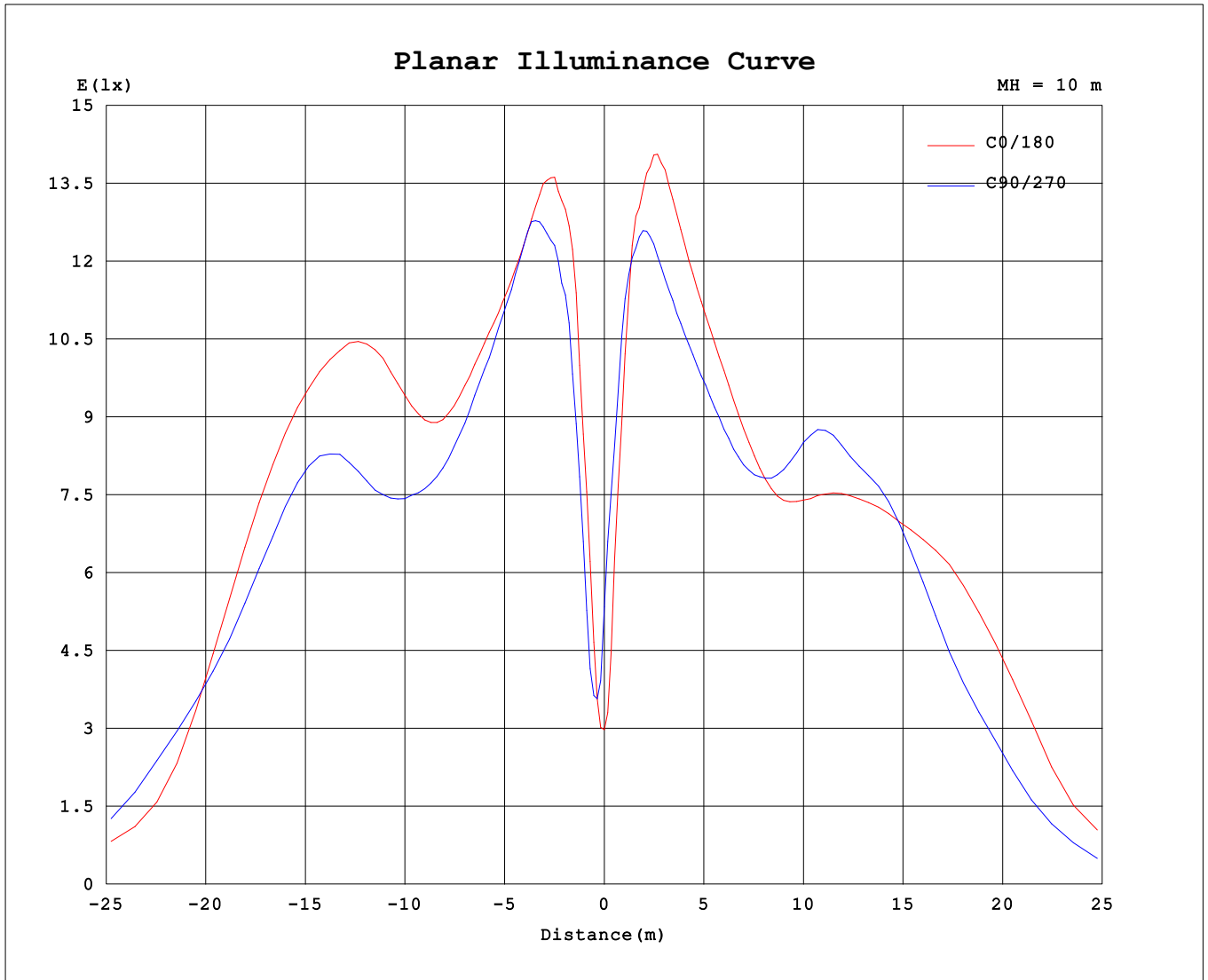
Test:U:230.37V I:0.4365A P:98.350W PF:0.9780 Freq:49.99Hz Lamp Flux:13155.1x1 lm		
NAME: MIVAR-220101	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: ADMIN
 Test Date: 2023-07-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity: 65.0%
 Test Distance: 9.345m [K=1.0000]
 Remarks:

Planar Illuminance Curve



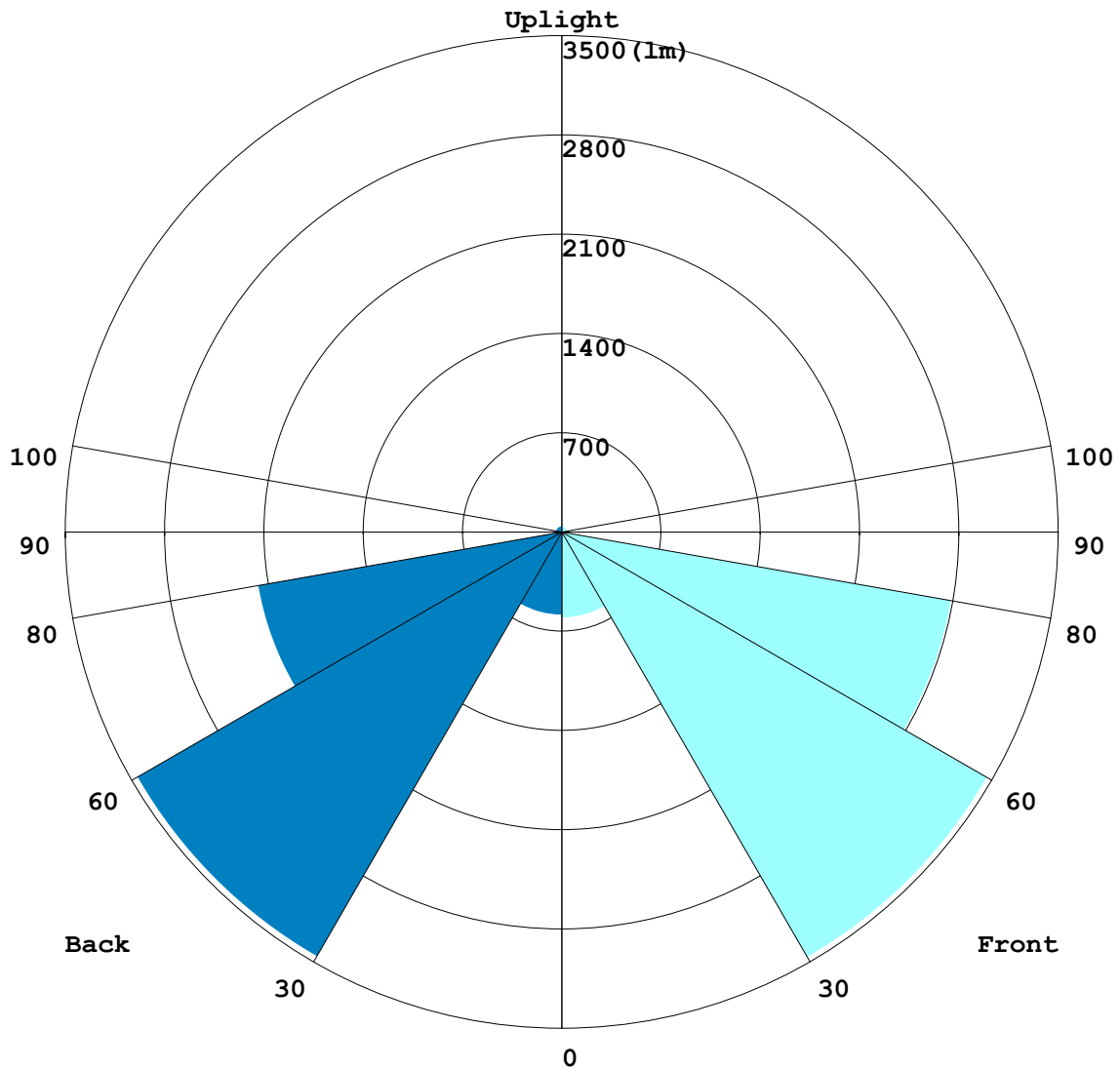
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: ADMIN
 Test Date: 2023-07-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity: 65.0%
 Test Distance: 9.345m [K=1.0000]
 Remarks:

LCS REPORT

Test:U:230.37V I:0.4365A P:98.350W PF:0.9780 Freq:49.99Hz		
Lamp Flux:13155.1x1 lm		
NAME: MIVAR-220101	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ADMIN
 Test Date:2023-07-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:9.345m [K=1.0000]
 Remarks:

BUG REPORT

Test:U:230.37V I:0.4365A P:98.350W PF:0.9780 Freq:49.99Hz Lamp Flux:13155.1x1 lm		
NAME: MIVAR-220101	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	603.32	4.6
FM - Front-Medium(30-60)	3459.7	26.3
FH - Front-High(60-80)	2786.8	21.2
FVH - Front-Very High(80-90)	8.6279	0.1
Total Forward Light	6900.7	52.5

BL - Back-Low(0-30)	582.74	4.4
BM - Back-Medium(30-60)	3454.8	26.3
BH - Back-High(60-80)	2173	16.5
BVH - Back-Very High(80-90)	1.2425	0.0
Total Back Light	6254.3	47.5

UL - Uplight-Low(90-100)	8.1462	0.1
UH - Uplight-High(100-180)	76.689	0.6
Total Up Light	84.835	0.6

BUG(Back,Up,Glare) Rating	B3-U3-G3
----------------------------------	-----------------

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	6211.8	42.542	6254.3
Street Side	6858.5	42.293	6900.7

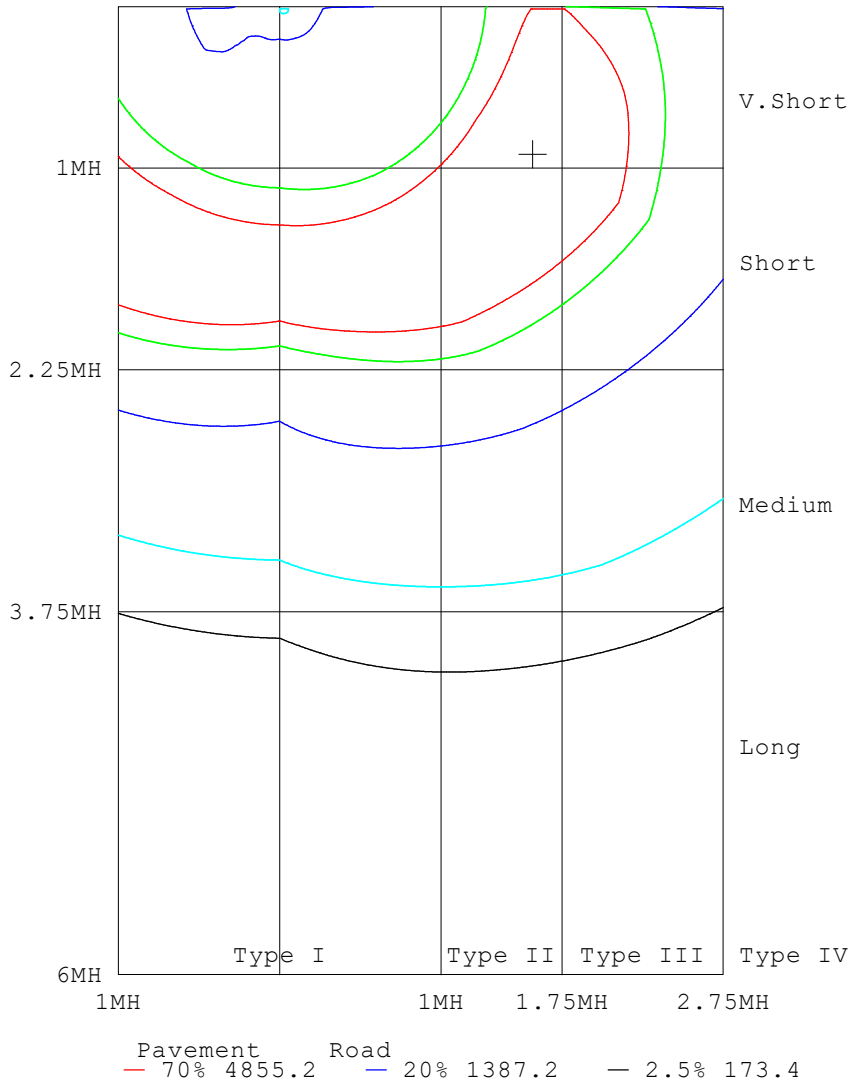
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ADMIN
 Test Date:2023-07-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:9.345m [K=1.0000]
 Remarks:

ROAD ISOCANDELA REPORT

Test:U:230.37V I:0.4365A P:98.350W PF:0.9780 Freq:49.99Hz Lamp Flux:13155.1x1 lm		
NAME: MIVAR-220101	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:ADMIN
Test Date:2023-07-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:9.345m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.37V I:0.4365A P:98.350W PF:0.9780 Freq:49.99Hz Lamp Flux:13155.1x1 lm		
NAME: MIVAR-220101	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	468	468	468	468	468	468	468	468	468	468	468	468							
5	1199	736	536	468	539	620	1405	1083	939	933	798	750							
10	2083	1470	1147	991	985	1006	2141	1584	1248	1143	1011	1031							
15	2369	1804	1517	1206	1208	1175	2447	1801	1338	1176	1099	1187							
20	2423	1871	1590	1347	1293	1235	2440	1867	1327	1161	1096	1221							
25	2452	1882	1596	1347	1286	1226	2420	1882	1339	1176	1123	1256							
30	2569	1958	1642	1368	1308	1243	2454	1915	1416	1214	1200	1326							
35	2743	2066	1707	1415	1343	1271	2504	1966	1477	1287	1303	1423							
40	3105	2252	1833	1531	1415	1323	2659	2125	1705	1524	1606	1687							
45	4180	2751	2153	1841	1647	1520	3283	2669	2316	2109	2241	2275							
50	6146	4161	3181	2563	2263	2042	4446	3531	3214	2790	3121	3111							
55	8208	6210	5231	3830	3457	2826	5935	4755	4425	3420	4365	4348							
60	9229	8210	7085	4262	5046	4131	7734	6887	6085	3140	5309	5438							
65	4856	6969	6548	3429	5074	4967	6549	6998	5498	1890	4176	3655							
70	1677	2621	3037	1318	2859	2502	2025	2362	1728	443	1141	1057							
75	354	561	668	386	650	524	398	356	283	51.1	170	166							
80	22.1	61.2	92.2	62.4	97.8	64.1	22.3	6.58	2.88	1.58	2.18	3.03							
85	2.98	5.13	12.2	19.5	10.0	3.36	3.08	2.38	1.94	1.32	1.76	1.71							
90	2.68	4.97	12.3	19.2	9.95	3.20	3.58	3.71	3.20	2.08	2.95	2.76							
95	5.59	6.96	11.8	16.2	9.36	4.29	7.18	7.19	6.00	4.16	5.28	4.91							
100	10.12	9.90	11.2	11.7	8.56	6.38	12.18	11.24	9.27	6.88	7.69	7.20							
105	14.58	12.7	11.3	9.16	8.84	8.70	17.5	14.9	12.1	9.50	9.64	9.09							
110	17.7	14.5	11.9	9.37	9.79	10.5	21.6	17.3	13.8	11.4	10.8	10.2							
115	19.9	15.9	12.7	10.6	10.7	11.7	24.2	18.9	15.1	12.8	11.8	11.3							
120	22.1	17.6	13.9	12.0	11.6	12.8	26.4	20.6	16.5	14.0	12.9	12.3							
125	23.9	18.9	15.0	13.2	12.5	13.8	28.0	21.9	17.5	14.9	13.7	12.8							
130	24.5	19.3	15.9	14.0	12.7	14.3	28.7	22.8	17.8	15.2	14.2	13.0							
135	24.6	19.7	16.8	14.1	12.8	14.6	28.5	23.2	18.0	15.1	14.7	13.4							
140	26.4	21.6	18.2	14.6	13.9	15.3	29.0	24.2	19.4	15.3	15.6	14.5							
145	28.3	23.6	19.5	15.4	15.7	16.6	30.5	25.0	20.2	15.5	15.5	14.8							
150	26.6	22.4	19.0	15.4	15.8	16.4	28.4	22.2	18.3	14.6	13.8	12.8							
155	22.9	19.2	16.8	14.3	14.2	14.2	24.4	19.0	15.8	13.0	12.1	11.4							
160	20.5	17.4	15.1	13.0	12.7	12.3	21.3	16.6	13.9	11.6	11.0	10.5							
165	18.8	16.1	13.8	11.9	11.4	10.9	19.1	15.4	13.2	11.1	10.6	10.0							
170	18.6	15.6	13.2	11.1	10.6	10.3	18.9	15.5	13.3	11.2	10.7	10.1							
175	18.1	14.8	11.7	9.73	9.25	9.24	18.9	15.1	13.0	10.8	10.5	9.82							
180	17.5	13.6	11.3	9.48	9.38	8.82	17.5	13.5	11.3	9.48	9.41	8.77							

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ADMIN
 Test Date:2023-07-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:9.345m [K=1.0000]
 Remarks: