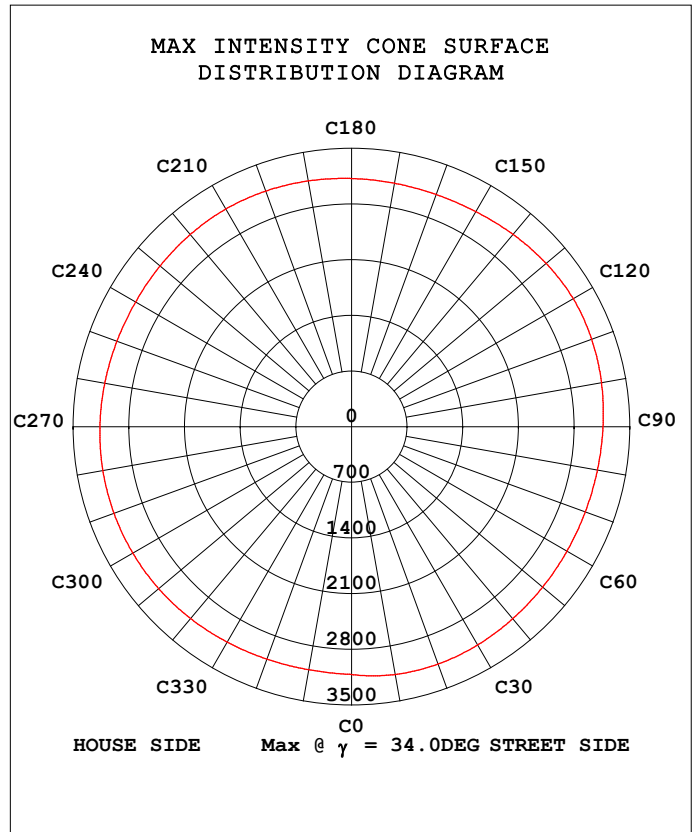
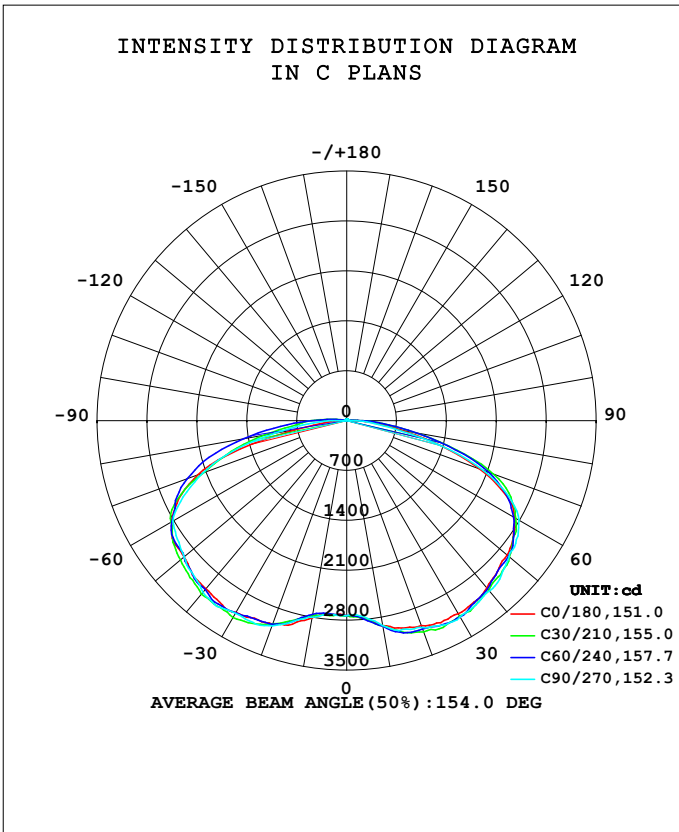


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:230.32V I:0.4040A P:90.264W PF:0.9701 Freq:49.99Hz Lamp Flux:14668.7x1 lm		
NAME: MUFO-232100	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	232100	Imax (cd)	3220	η street_up (%)	0.7
NOMINAL POWER (W)	90	LOR (%)	100.0	η street_down (%)	48.9
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	14669	η house_up (%)	0.9
NOMINAL FLUX (lm)	14668.7	MAXIMUM @ (C, γ)	120,34.0	η house_down (%)	49.4
LAMPS INSIDE	1	η up (%)	1.7	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	230	η down (%)	98.3	SLI	22.644

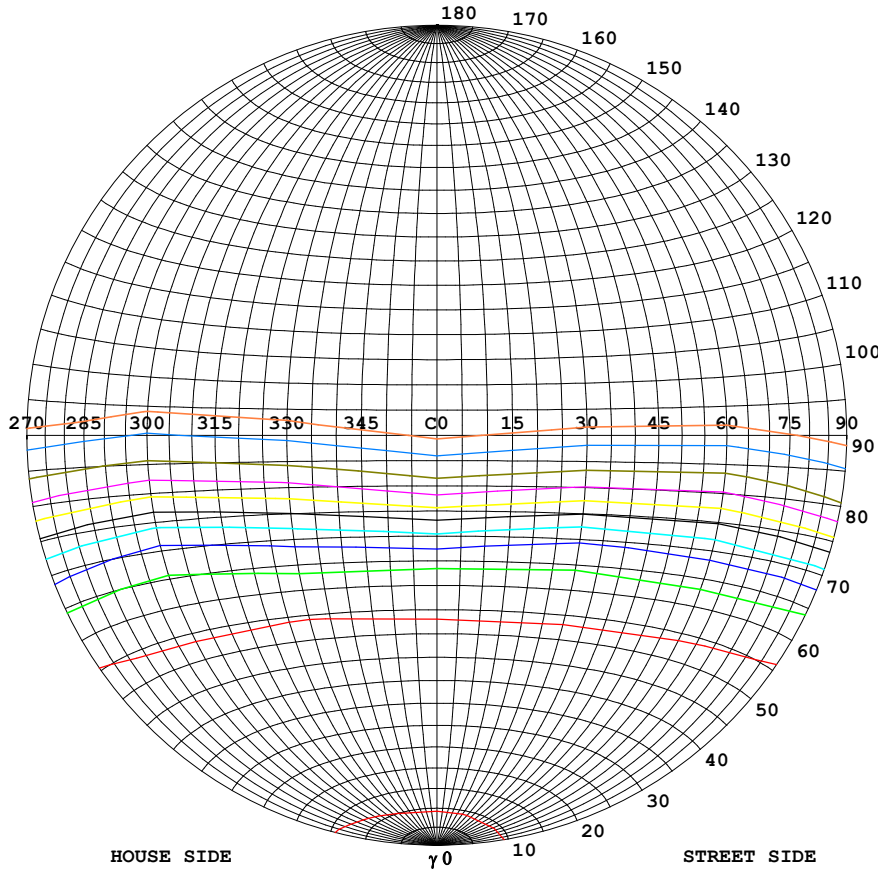


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: ADMIN
 Test Date: 2023-07-08

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:230.32V I:0.4040A P:90.264W PF:0.9701 Freq:49.99Hz Lamp Flux:14668.7x1 lm		
NAME: MUFO-232100	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:



Classification:

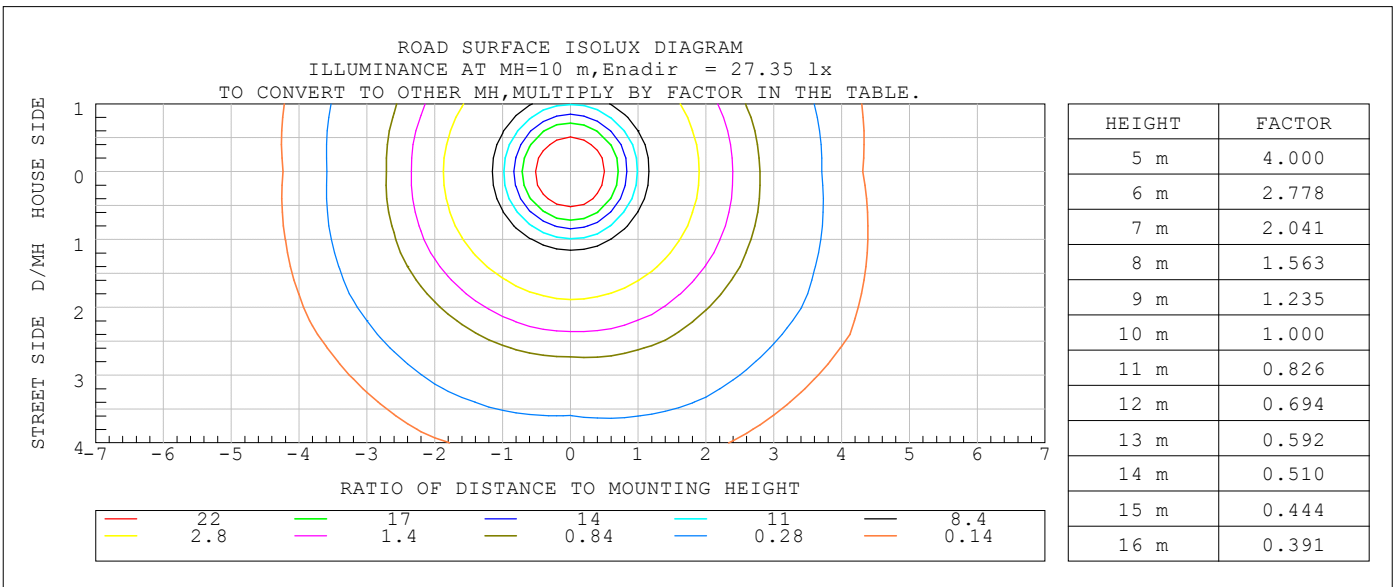
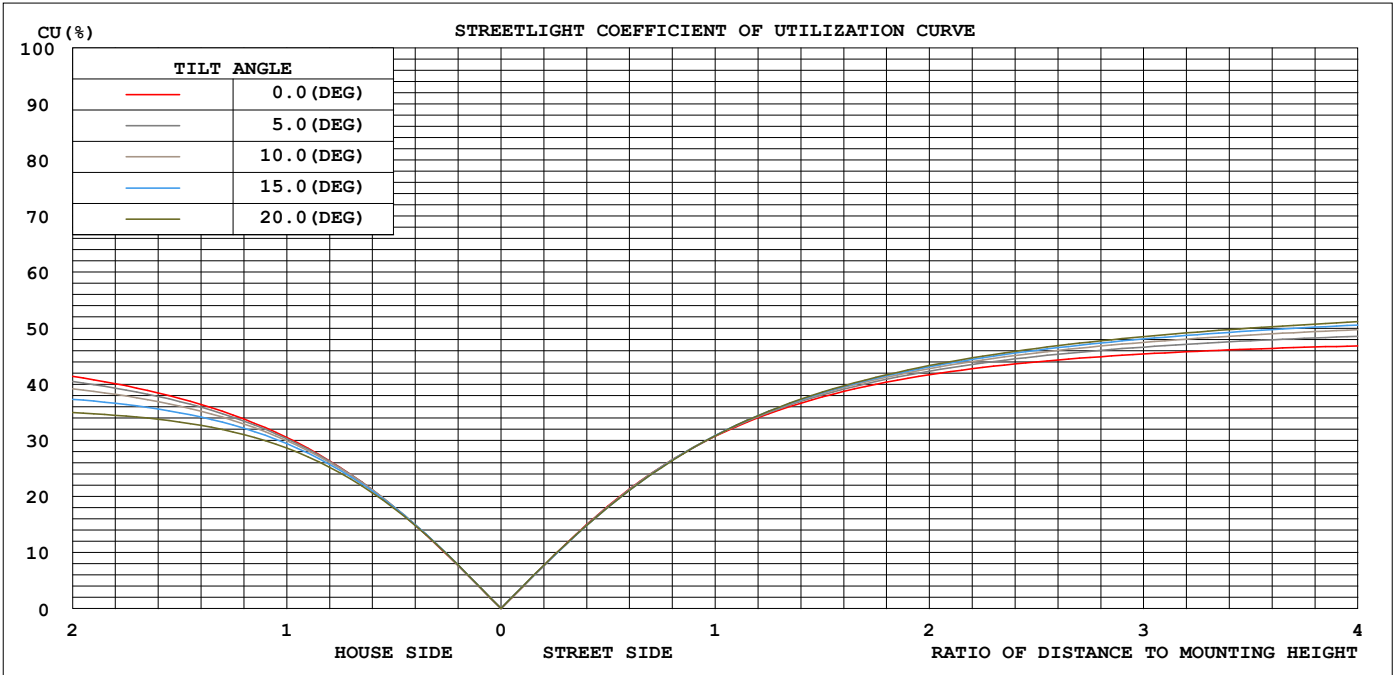
IES:Type VS - Very Short
 CIE:Broad - Short
 IES:None cut-off
 CIE:Semi-cut-off
 Max.At80:99.99cd/klm
 Max.At90:34.57cd/klm
 Max.80-90:99.99cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	3220
90%	2898
80%	2576
70%	2254
60%	1932
50%	1610
40%	1288
30%	966
20%	644
10%	322
5%	161

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ADMIN
 Test Date:2023-07-08

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: 2023-07-08

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:230.32V I:0.4040A P:90.264W PF:0.9701 Freq:49.99Hz Lamp Flux:14668.7x1 lm		
NAME: MUFO-232100	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:

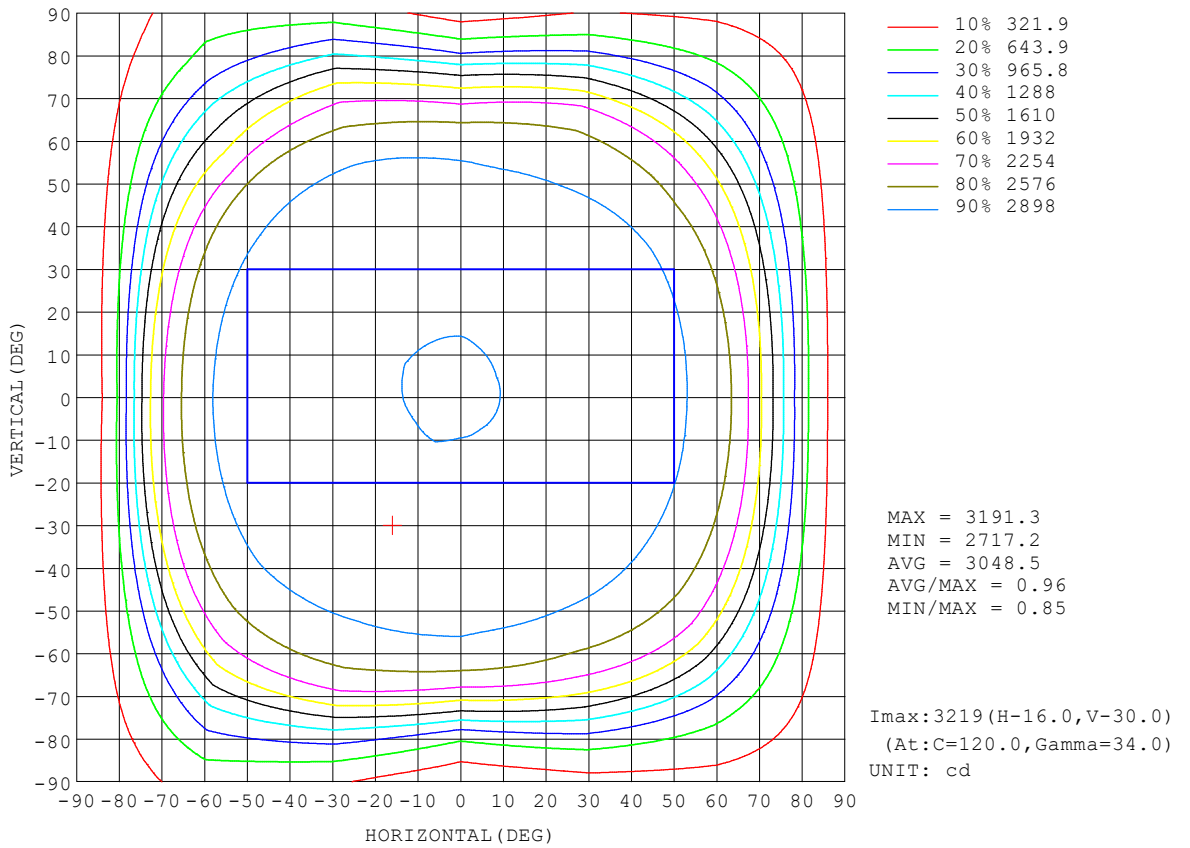
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	2917	2925	2918	2846	2810	2767	2798	2880	0- 10	266.3	266.3	1.82,1.82
20	3056	3133	3085	3065	3040	3033	3064	3059	10- 20	846.9	1113	7.59,7.59
30	3125	3170	3178	3181	3108	3151	3120	3124	20- 30	1445	2558	17.4,17.4
40	3061	3089	3120	3126	3076	3134	3140	3093	30- 40	1972	4531	30.9,30.9
50	2936	2970	2973	3019	2977	3010	2979	2952	40- 50	2355	6886	46.9,46.9
60	2727	2721	2790	2827	2834	2841	2819	2734	50- 60	2598	9484	64.7,64.7
70	1977	2159	2036	2380	2222	2257	2146	2233	60- 70	2517	12001	81.8,81.8
80	772.6	987.5	690.8	1307	706.7	1321	1021	1137	70- 80	1749	13751	93.7,93.7
90	135.5	226.8	106.3	409.1	51.51	498.6	202.8	304.9	80- 90	670.7	14422	98.3,98.3
100	16.10	34.60	29.93	64.77	29.24	87.07	26.50	48.09	90-100	142.4	14564	99.3,99.3
110	12.85	13.47	19.20	16.06	16.24	21.47	18.33	17.18	100-110	28.94	14593	99.5,99.5
120	15.28	15.25	18.22	15.04	17.94	18.71	20.67	16.13	110-120	16.04	14609	99.6,99.6
130	17.15	17.10	18.10	16.44	18.50	20.23	22.53	19.53	120-130	15.95	14625	99.7,99.7
140	18.22	18.76	18.64	17.71	18.89	20.59	22.78	21.93	130-140	14.87	14640	99.8,99.8
150	18.41	18.82	18.73	17.97	19.34	20.46	21.91	21.66	140-150	12.39	14652	99.9,99.9
160	18.64	18.92	18.50	18.23	20.45	20.79	20.70	20.91	150-160	9.088	14661	99.9,99.9
170	19.49	19.21	19.16	18.89	21.36	21.15	20.47	20.10	160-170	5.600	14667	100,100
180	21.64	20.61	20.58	20.28	21.65	20.59	20.60	20.28	170-180	1.927	14669	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:2023-07-08

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

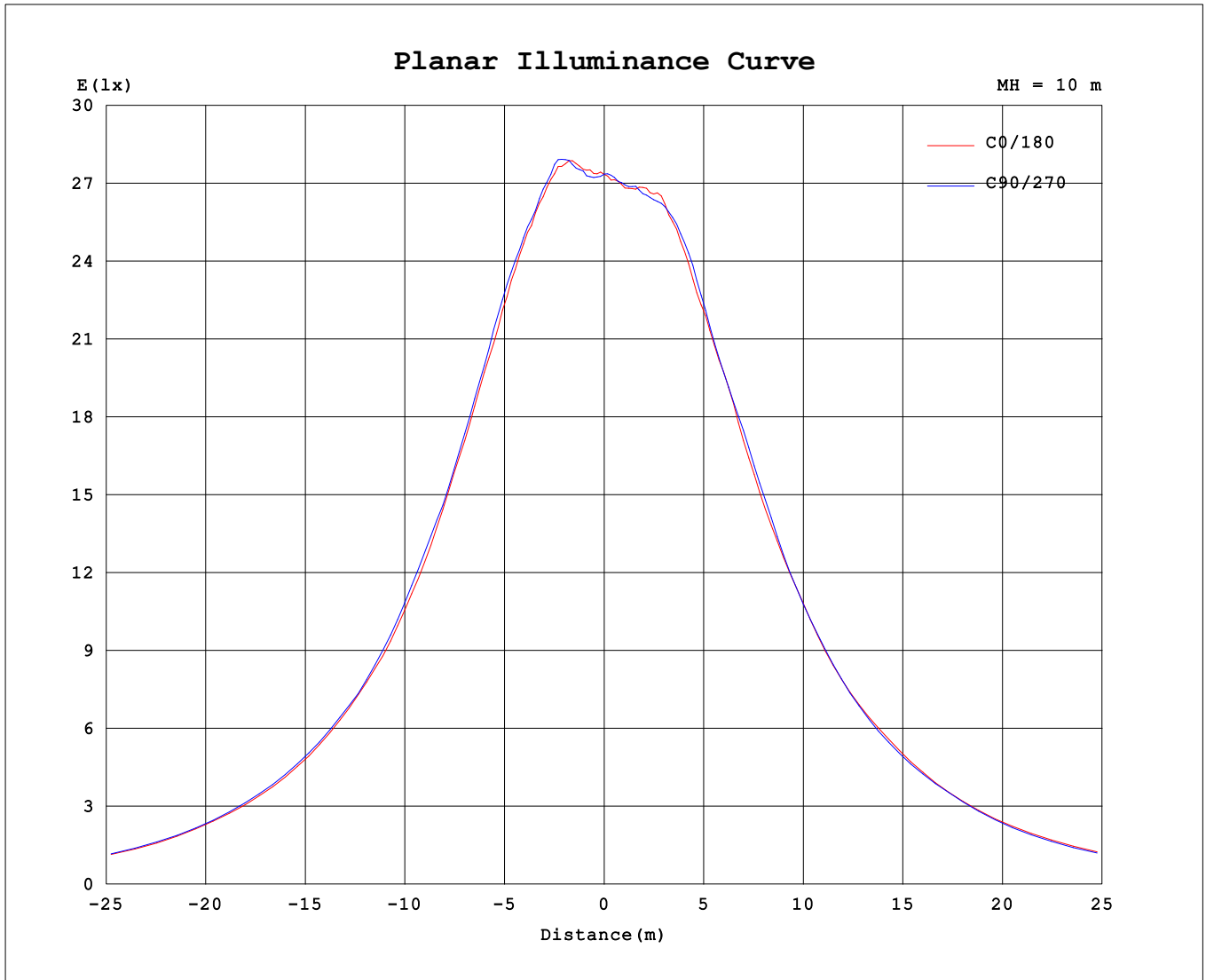
Test:U:230.32V I:0.4040A P:90.264W PF:0.9701 Freq:49.99Hz Lamp Flux:14668.7x1 lm		
NAME: MUFO-232100	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: BBT-LIGHTING	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: ADMIN
 Test Date: 2023-07-08

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



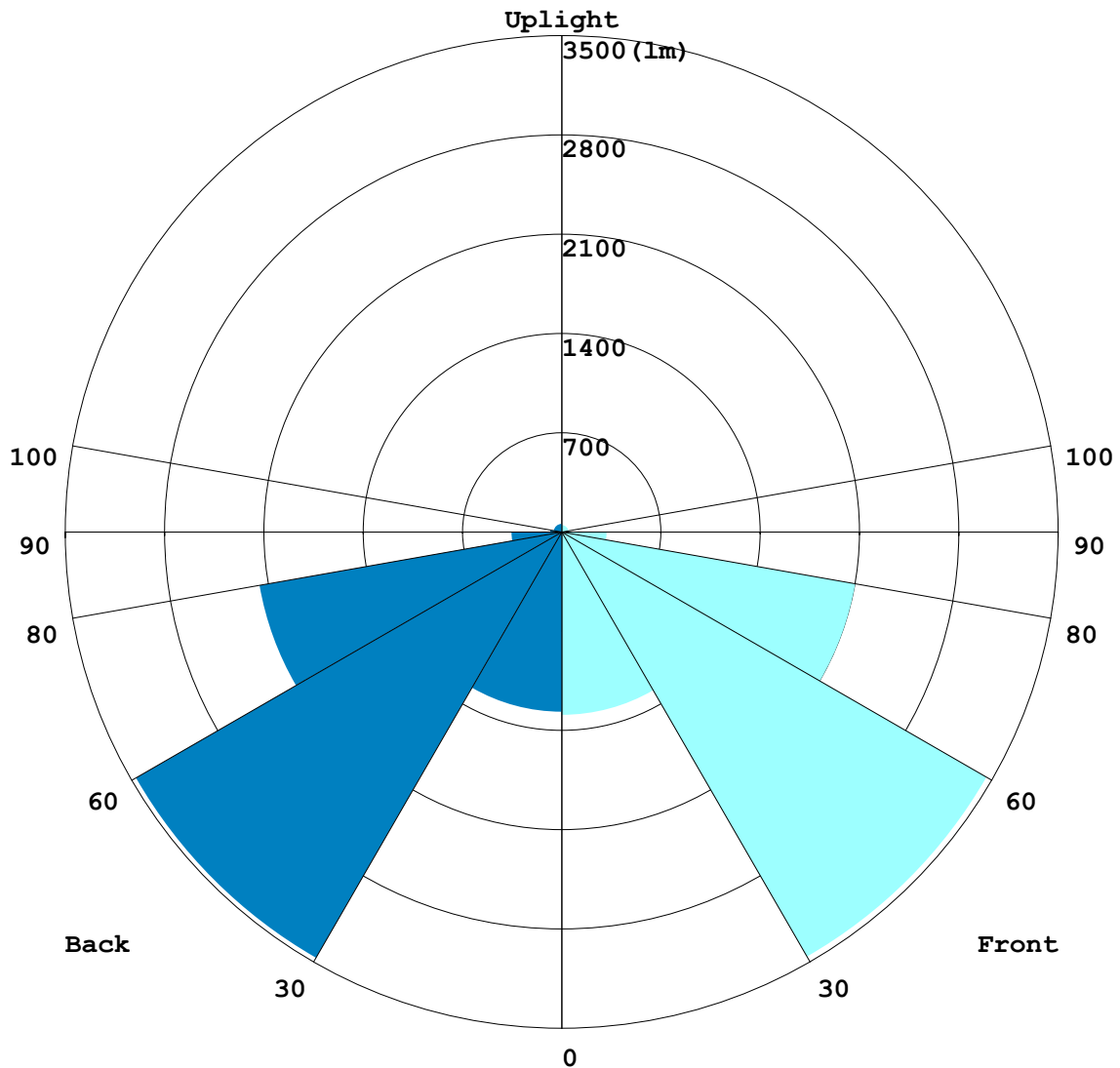
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: ADMIN
 Test Date: 2023-07-08

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:230.32V I:0.4040A P:90.264W PF:0.9701 Freq:49.99Hz		
Lamp Flux:14668.7x1 lm		
NAME: MUFO-232100	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:2023-07-08

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:230.32V I:0.4040A P:90.264W PF:0.9701 Freq:49.99Hz Lamp Flux:14668.7x1 lm		
NAME: MUFO-232100	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)	1290.7	8.8
FM - Front-Medium(30-60)	3458.3	23.6
FH - Front-High(60-80)	2103.2	14.3
FVH - Front-Very High(80-90)	316.06	2.2
Total Forward Light	7277.7	49.6

BL - Back-Low(0-30)	1267.7	8.6
BM - Back-Medium(30-60)	3467.5	23.6
BH - Back-High(60-80)	2163.4	14.7
BVH - Back-Very High(80-90)	354.6	2.4
Total Back Light	7390.9	50.4

UL - Uplight-Low(90-100)	142.37	1.0
UH - Uplight-High(100-180)	104.8	0.7
Total Up Light	247.17	1.7

BUG(Back,Up,Glare) Rating	B3-U3-G3
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	7253.3	137.67	7390.9
Street Side	7168.2	109.49	7277.7

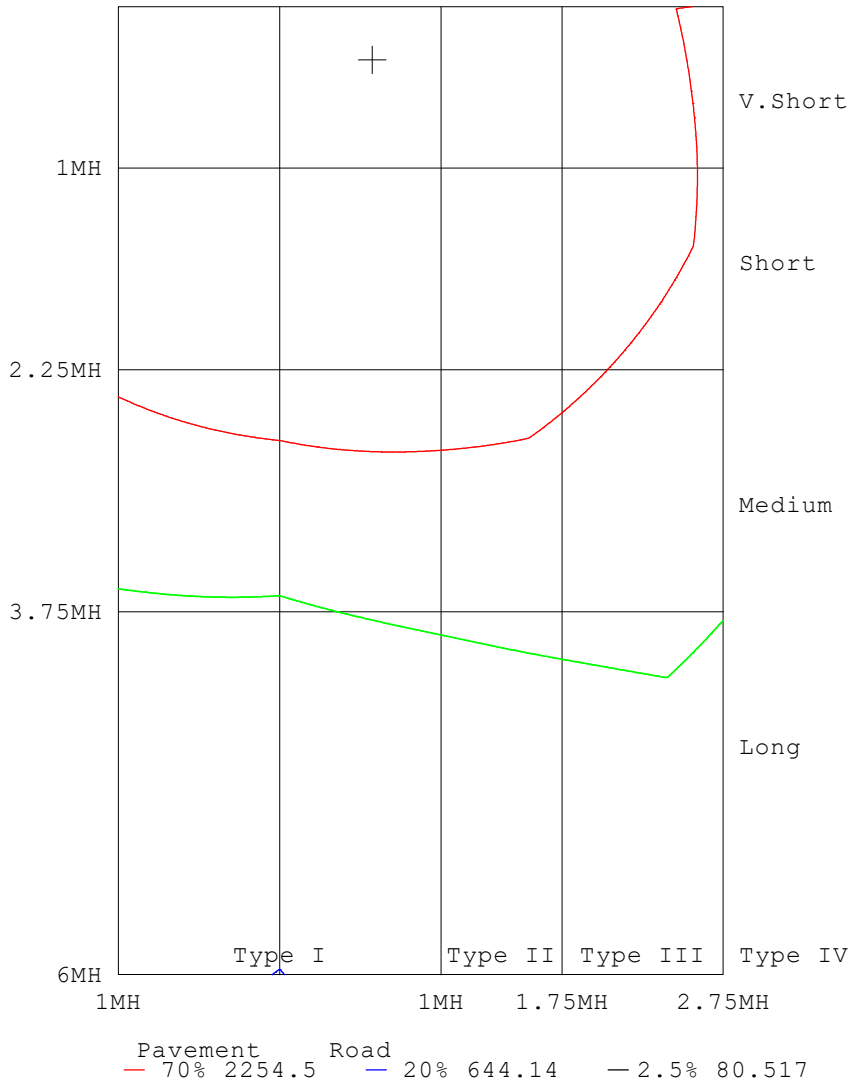
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ADMIN
 Test Date:2023-07-08

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:230.32V I:0.4040A P:90.264W PF:0.9701 Freq:49.99Hz Lamp Flux:14668.7x1 lm		
NAME: MUFO-232100	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:2023-07-08

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:230.32V I:0.4040A P:90.264W PF:0.9701 Freq:49.99Hz Lamp Flux:14668.7x1 lm		
NAME: MUFO-232100	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	2734	2734	2734	2734	2734	2734	2734	2734	2734	2734	2734	2734							
5	2782	2787	2793	2758	2765	2741	2726	2743	2720	2733	2747	2769							
10	2917	2922	2929	2918	2852	2840	2810	2778	2757	2798	2854	2906							
15	3011	3074	3081	3032	2962	2981	2955	2899	2914	2917	2982	3024							
20	3056	3156	3109	3085	3078	3052	3040	3028	3039	3064	3057	3061							
25	3124	3199	3159	3167	3172	3116	3059	3138	3068	3121	3087	3094							
30	3125	3162	3178	3178	3218	3145	3108	3191	3112	3120	3145	3103							
35	3108	3154	3122	3158	3212	3139	3107	3177	3143	3178	3168	3129							
40	3061	3100	3078	3120	3152	3099	3076	3176	3091	3140	3113	3073							
45	2989	3054	2993	3066	3092	3029	3060	3112	3055	3049	3019	2990							
50	2936	2978	2963	2973	3023	3016	2977	3041	2978	2979	2952	2953							
55	2853	2849	2859	2907	2927	2953	2966	2976	2948	2901	2857	2872							
60	2727	2738	2705	2790	2807	2847	2834	2849	2833	2819	2757	2710							
65	2460	2542	2480	2502	2643	2667	2599	2620	2650	2530	2609	2479							
70	1977	2192	2127	2036	2369	2392	2222	2133	2381	2146	2328	2139							
75	1368	1601	1578	1376	1867	1988	1554	1678	2003	1651	1824	1610							
80	773	983	992	691	1224	1389	707	1175	1467	1021	1218	1055							
85	380	508	528	339	720	859	255	713	933	545	698	579							
90	135	222	231	106	360	458	51.5	507	490	203	338	272							
95	31.2	80.1	81.1	43.5	145	195	40.4	239	222	45.3	134	103							
100	16.1	32.2	37.0	29.9	57.8	71.7	29.2	90.4	83.7	26.5	53.7	42.5							
105	12.4	16.7	20.9	23.6	28.3	31.2	18.9	38.8	37.3	18.6	29.1	22.0							
110	12.8	12.6	14.3	19.2	16.6	15.6	16.2	20.8	22.2	18.3	19.7	14.6							
115	14.1	13.4	13.8	18.8	15.4	13.1	16.8	17.2	18.2	19.5	15.4	14.6							
120	15.3	14.4	16.1	18.2	15.8	14.2	17.9	18.4	19.0	20.7	16.6	15.7							
125	16.3	15.2	17.3	18.0	15.8	15.3	18.7	19.6	19.8	21.7	19.3	17.2							
130	17.1	16.2	18.0	18.1	16.6	16.3	18.5	19.8	20.6	22.5	21.4	17.7							
135	17.9	18.2	18.6	18.3	17.4	17.1	18.7	20.0	21.1	23.1	22.0	18.9							
140	18.2	18.8	18.8	18.6	17.8	17.6	18.9	20.0	21.2	22.8	22.3	21.6							
145	18.2	19.1	18.7	18.8	17.9	17.8	19.0	20.1	21.1	22.0	22.3	21.5							
150	18.4	19.0	18.6	18.7	18.1	17.9	19.3	19.9	21.0	21.9	21.8	21.5							
155	18.4	19.1	18.6	18.5	18.2	18.0	19.8	20.1	21.0	21.1	21.2	21.4							
160	18.6	19.1	18.7	18.5	18.4	18.1	20.4	20.5	21.0	20.7	20.7	21.1							
165	18.9	19.2	18.8	18.8	18.6	18.4	21.1	21.1	21.1	20.5	20.1	20.5							
170	19.5	19.3	19.1	19.2	18.9	18.9	21.4	21.4	20.9	20.5	20.0	20.2							
175	20.6	20.5	19.7	19.7	19.2	19.6	21.6	21.4	20.8	20.7	20.4	20.3							
180	21.6	21.1	20.1	20.6	20.3	20.3	21.6	21.0	20.2	20.6	20.3	20.3							

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:ADMIN
 Test Date:2023-07-08

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: