



Report of Test

LLIA001630-008

Roadway/Area Light Distribution Photometry Test Report

Catalog Number: WPA-75W-PCTS-BZ-PC - 60W and 5000K Setting

Surface mounted wall pack, cast aluminum housings, clear plastic enclosure with perimeter prisms, linear lens above each row of LEDs with vertical linear micro prisms. Aimed straight down.

192 LEDs, 96 cool white and 96 warm white LEDs on white circuit board

One BQ BQE78-0720-100-PVF-PS LED driver



Prepared For:

Topaz Lighting Corp

925 Waverly Avenue

Holtsville, NY 11742, USA

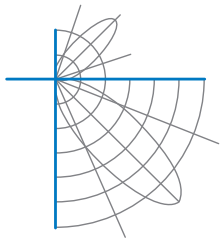
Performance Summary			
Input Voltage	120.0 Vac	Luminous Flux	7885.5 Lumens
Input Current	0.5005 A	Total Efficacy	133.2 Lm/W
Input Power	59.19 W		
Frequency	60.00 Hz		
Power Factor	0.985	Roadway Type	Area Light
Current THD	12.8 %	IES BUG Rating	B3 - U0 - G1

This test report was issued by LightLab International Allentown, LLC without alterations or erasures.

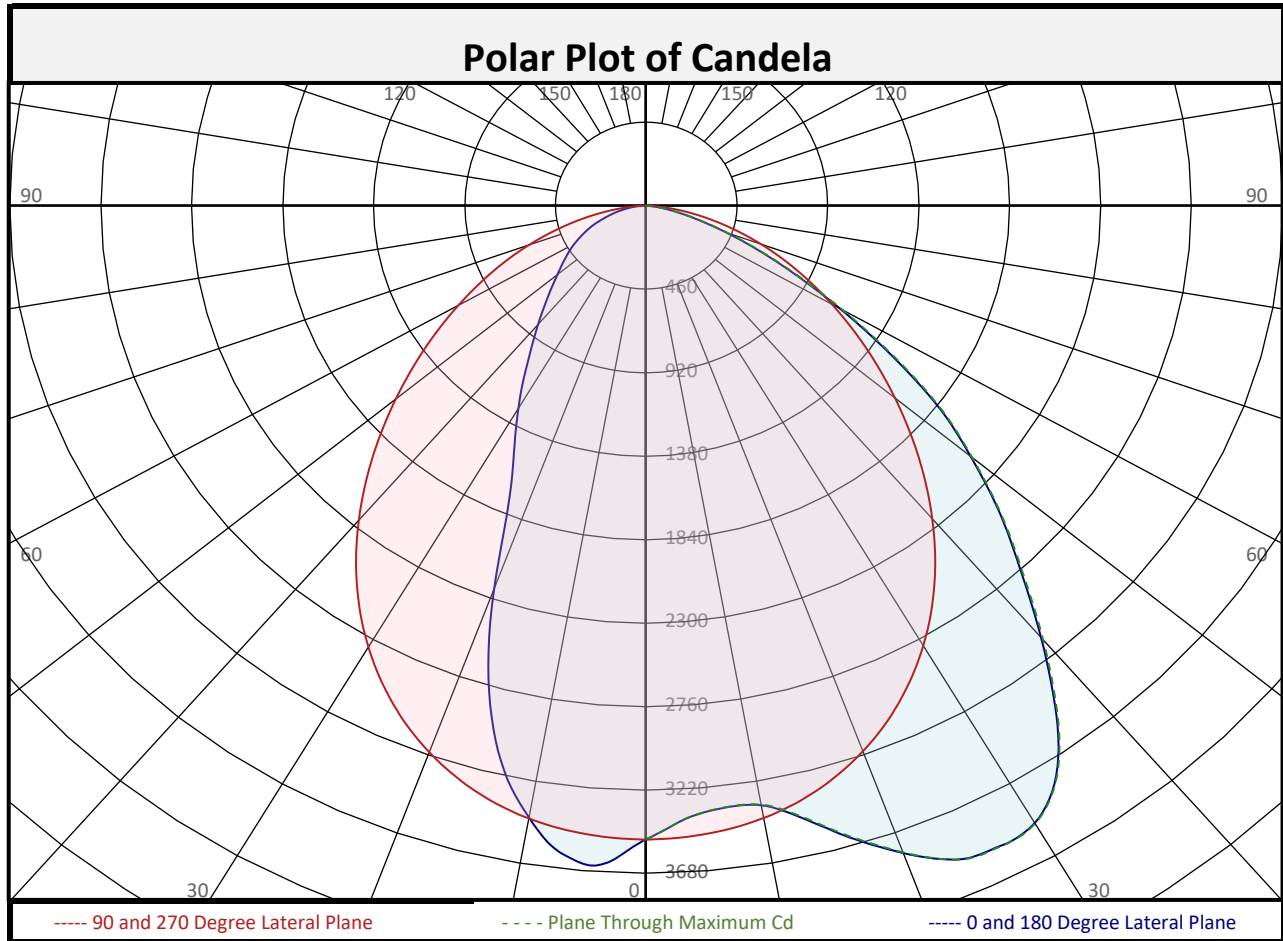
Test date: 01/14/2022

Report date: 01/14/2022

Signed: _____

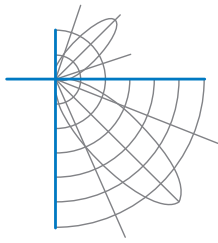


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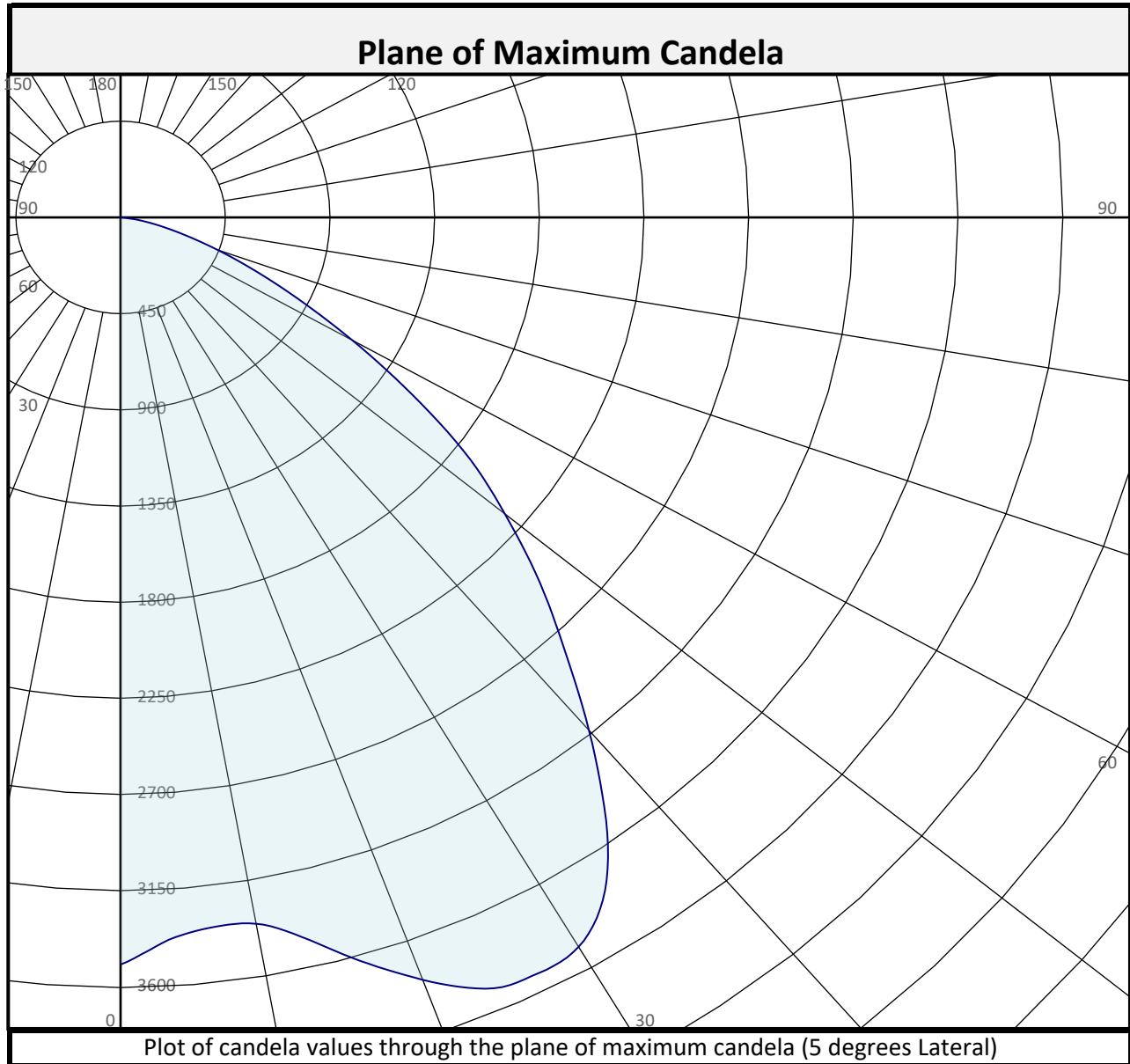


Zonal Flux Summary

Zone (Deg Vert)	Flux (Lumens)	Percent of Total	Zone (Deg Vert)	Flux (Lumens)	Percent of Total	Zone (Deg Vert)	Flux (Lumens)	Percent of Total
0-10	330.8	4.2%	90-100	0.0	0.0%	0-20	1256	15.9%
10-20	925.0	11.7%	100-110	0.0	0.0%	0-30	2581	32.7%
20-30	1325	16.8%	110-120	0.0	0.0%	0-40	4086	51.8%
30-40	1505	19.1%	120-130	0.0	0.0%	0-60	6662	84.5%
40-50	1422	18.0%	130-140	0.0	0.0%	0-80	7813	99.1%
50-60	1155	14.6%	140-150	0.0	0.0%	10-90	7555	95.8%
60-70	772.6	9.8%	150-160	0.0	0.0%	20-50	4251	53.9%
70-80	378.6	4.8%	160-170	0.0	0.0%	40-90	3800	48.2%
80-90	72.1	0.9%	170-180	0.0	0.0%	60-90	1223	15.5%
0-90	7886	100.0%	90-180	0.0	0.0%	0-180	7886	100.0%



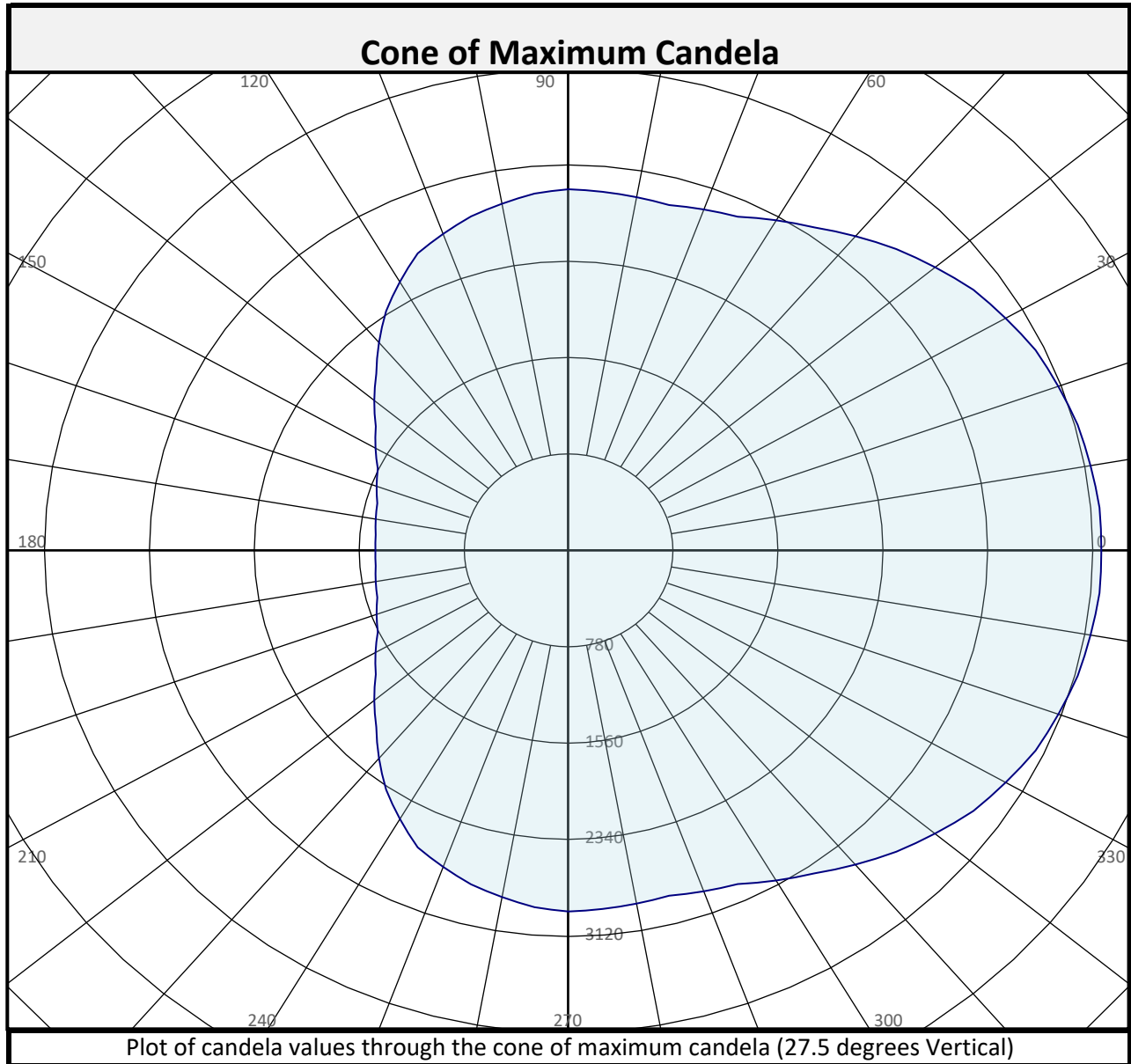
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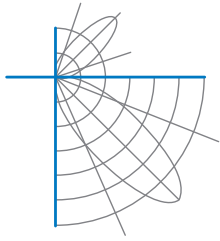
Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	5057.5	64.1%	0.0	0.0%	5057.5	64.1%
House Side	2828.0	35.9%	0.0	0.0%	2828.0	35.9%
Total	7885.5	100.0%	0.0	0.0%	7885.5	100.0%



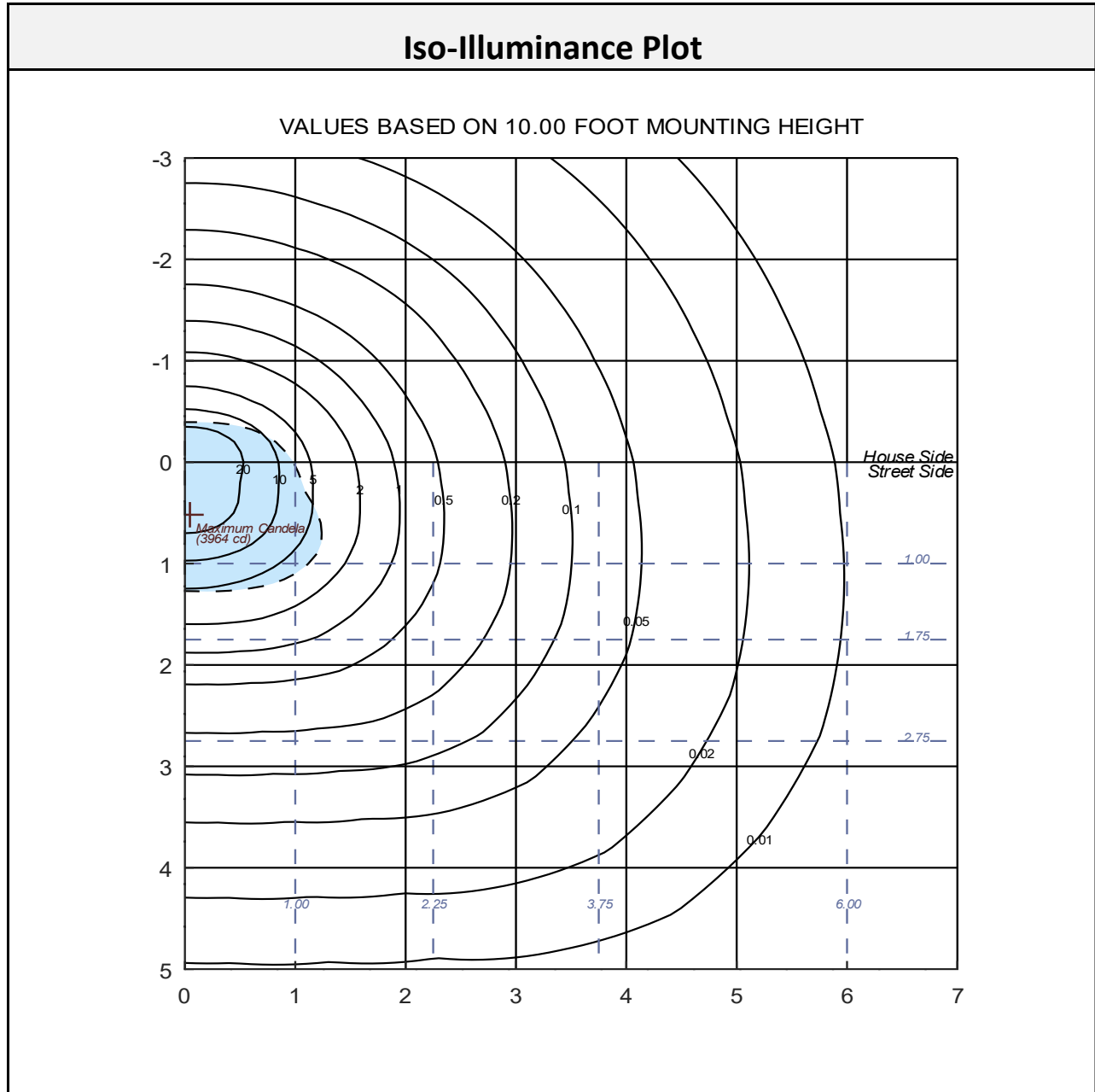
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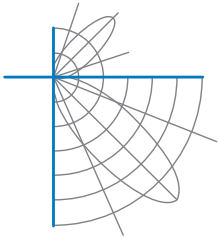
Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	5057.5	64.1%	0.0	0.0%	5057.5	64.1%
House Side	2828.0	35.9%	0.0	0.0%	2828.0	35.9%
Total	7885.5	100.0%	0.0	0.0%	7885.5	100.0%



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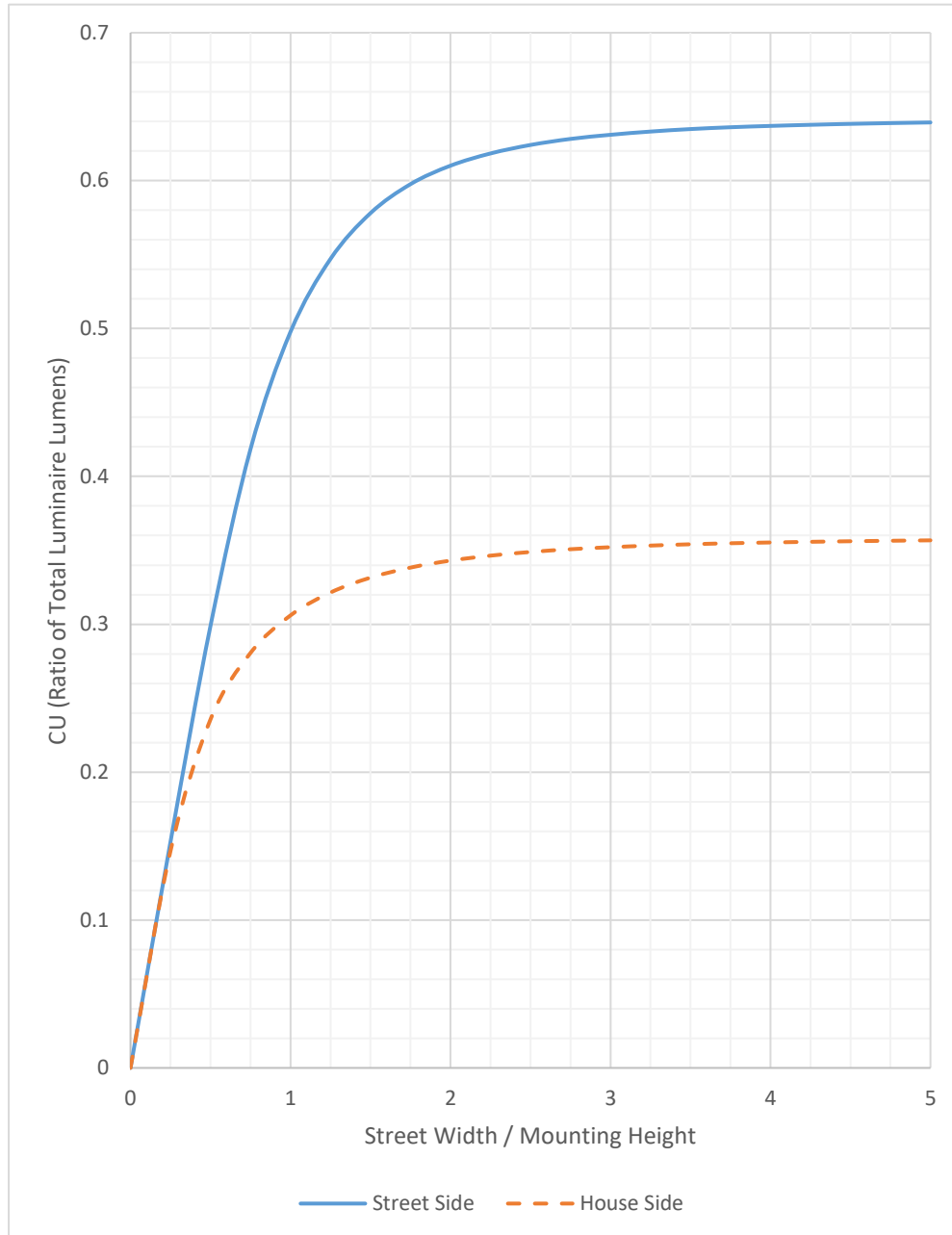


The isofootcandle values shown in the plot above are based on a mounting height of $h = 10.0$ feet. Grid values show multiples of mounting height. The isoilluminance contour lines are expressed in units of footcandles. The values expressed are based on the direct light from a single unit without the contribution of room reflections.



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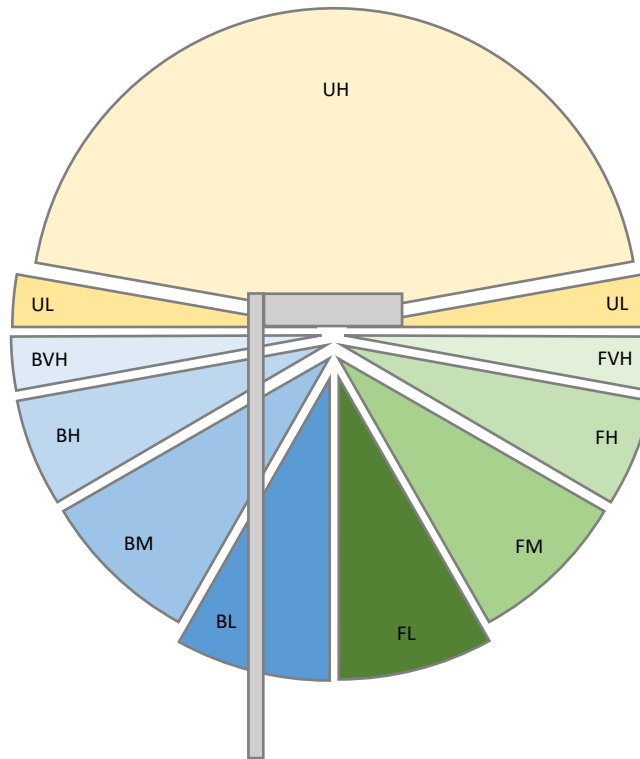
Coefficients of Utilization Plot





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LCS Tables and Bug Classification



Back Light

BL - Back Low (0°-30°)	1149.4 Lm
BM - Back Mid (30°-60°)	1272.6 Lm
BH - Back High (60°-80°)	374.7 Lm
BVH - Back Very High (80°-90°)	31.3 Lm

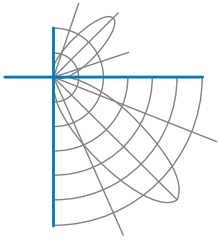
Forward Light

FL - Forward Low (0°-30°)	1431.2 Lm
FM - Forward Mid (30°-60°)	2808.9 Lm
FH - Forward High (60°-80°)	776.6 Lm
FVH - Forward Very High (80°-90°)	40.9 Lm

Uplight

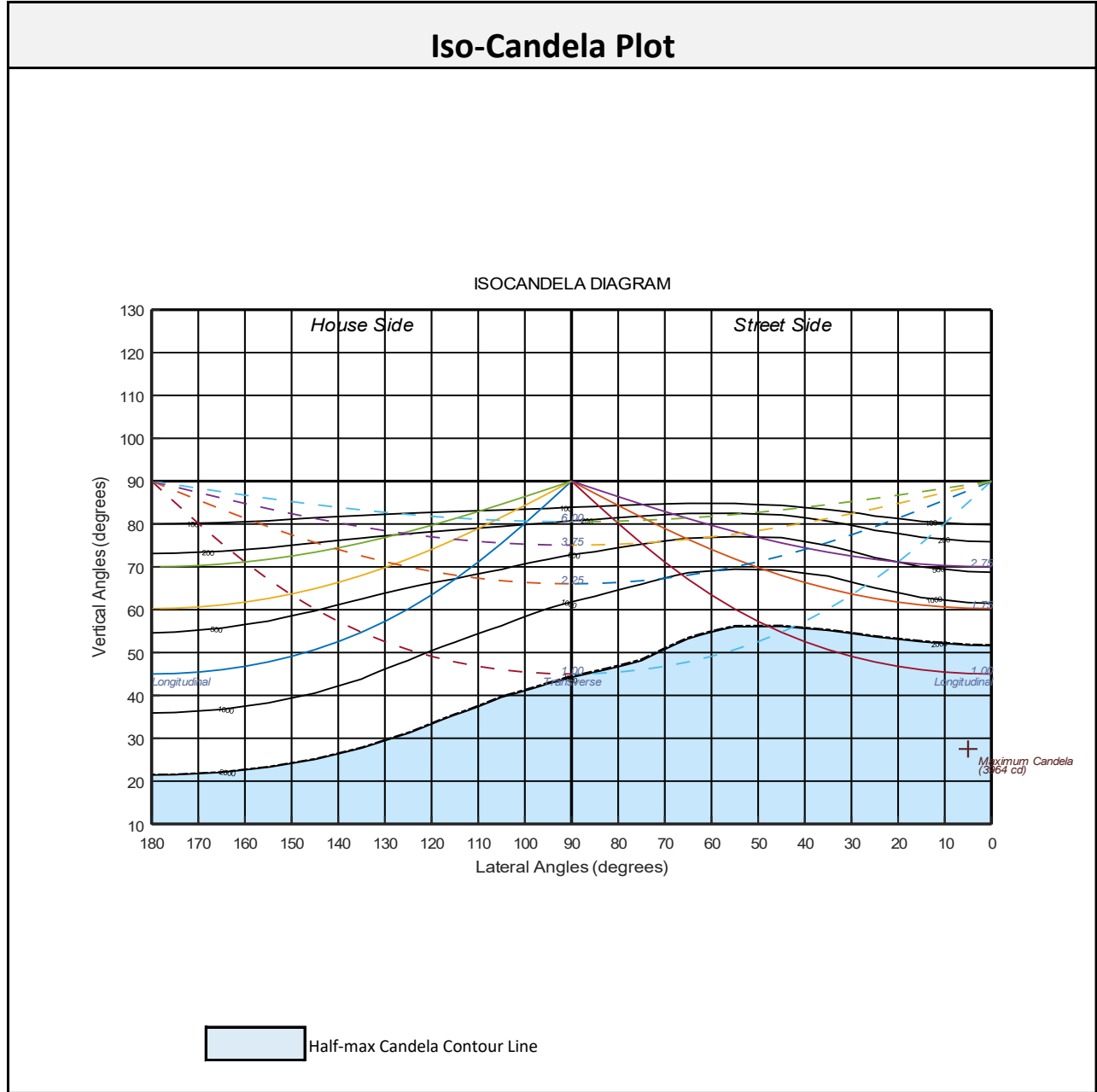
UL - Upward Low (90°-100°)	0.0 Lm
UH - Upward High (100°-180°)	0.0 Lm

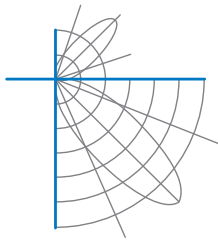
BUG Ratings: B3 - U0 - G1



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Iso-Candela Plot





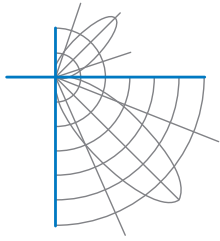
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Luminous Intensity (Candela) Table

	Lateral (C-Plane) Angles											
	0	5	15	25	35	45	55	65	75	85	90	
0	3492	3492	3492	3492	3492	3492	3492	3492	3492	3492	3492	3492
2.5	3412	3413	3412	3417	3426	3433	3440	3452	3464	3479	3486	3486
5	3358	3357	3356	3360	3367	3375	3388	3408	3432	3459	3474	3474
7.5	3340	3339	3337	3336	3337	3337	3344	3362	3393	3431	3454	3454
10	3356	3353	3345	3332	3320	3310	3308	3319	3350	3396	3425	3425
12.5	3435	3429	3410	3371	3329	3293	3275	3275	3301	3352	3386	3386
15	3554	3548	3518	3456	3377	3298	3245	3230	3248	3299	3337	3337
17.5	3680	3673	3636	3556	3447	3324	3225	3181	3188	3238	3275	3275
20	3797	3792	3746	3651	3520	3361	3213	3131	3122	3170	3203	3203
22.5	3898	3897	3845	3738	3585	3396	3207	3080	3052	3094	3121	3121
25	3955	3959	3914	3805	3642	3426	3201	3030	2974	3007	3027	3027
27.5	3963	3964	3921	3833	3676	3448	3190	2979	2893	2912	2922	2922
30	3933	3936	3895	3808	3673	3452	3171	2924	2805	2809	2807	2807
32.5	3829	3834	3816	3748	3627	3433	3142	2863	2713	2698	2683	2683
35	3643	3651	3668	3644	3548	3379	3098	2794	2615	2577	2549	2549
37.5	3385	3399	3451	3484	3436	3293	3039	2717	2509	2448	2408	2408
40	3114	3130	3192	3274	3285	3177	2955	2630	2398	2312	2258	2258
42.5	2848	2863	2929	3035	3103	3040	2849	2535	2281	2170	2106	2106
45	2611	2623	2680	2787	2893	2879	2725	2428	2159	2025	1954	1954
47.5	2381	2391	2449	2553	2673	2695	2582	2311	2032	1879	1799	1799
50	2144	2154	2220	2327	2453	2500	2425	2182	1900	1732	1648	1648
52.5	1918	1930	2003	2101	2233	2297	2255	2041	1763	1585	1501	1501
55	1651	1669	1777	1895	2015	2092	2076	1893	1625	1442	1359	1359
57.5	1382	1401	1517	1693	1807	1887	1889	1736	1484	1302	1222	1222
60	1135	1152	1263	1465	1612	1687	1698	1574	1340	1166	1091	1091
62.5	914	929	1028	1228	1421	1490	1507	1407	1196	1032	966	966
65	729	741	825	1008	1224	1300	1322	1240	1054	903	848	848
67.5	570	579	649	809	1028	1120	1140	1074	912	778	733	733
70	434	442	499	634	838	948	962	911	775	659	622	622
72.5	318	325	371	480	661	781	791	752	642	545	514	514
75	227	231	265	346	496	617	626	598	514	437	413	413
77.5	155	158	182	238	350	458	472	453	392	334	316	316
80	97	99	114	150	228	309	329	319	278	238	226	226
82.5	39	40	57	84	132	183	200	198	174	150	143	143
85	10	11	14	20	33	61	92	93	84	74	70	70
87.5	0	0	0	0	0	2	6	14	21	19	19	19
90	0	0	0	0	0	0	0	0	0	0	0	0

Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.

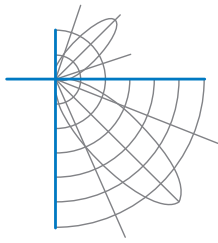


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Luminous Intensity (Candela) Table

	Lateral (C-Plane) Angles											
	0	5	15	25	35	45	55	65	75	85	90	
Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	90	0	0	0	0	0	0	0	0	0	0	0
	92.5	0	0	0	0	0	0	0	0	0	0	0
	95	0	0	0	0	0	0	0	0	0	0	0
	97.5	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0
	102.5	0	0	0	0	0	0	0	0	0	0	0
	105	0	0	0	0	0	0	0	0	0	0	0
	107.5	0	0	0	0	0	0	0	0	0	0	0
	110	0	0	0	0	0	0	0	0	0	0	0
	112.5	0	0	0	0	0	0	0	0	0	0	0
	115	0	0	0	0	0	0	0	0	0	0	0
	117.5	0	0	0	0	0	0	0	0	0	0	0
	120	0	0	0	0	0	0	0	0	0	0	0
	122.5	0	0	0	0	0	0	0	0	0	0	0
	125	0	0	0	0	0	0	0	0	0	0	0
	127.5	0	0	0	0	0	0	0	0	0	0	0
	130	0	0	0	0	0	0	0	0	0	0	0
	132.5	0	0	0	0	0	0	0	0	0	0	0
	135	0	0	0	0	0	0	0	0	0	0	0
	137.5	0	0	0	0	0	0	0	0	0	0	0
	140	0	0	0	0	0	0	0	0	0	0	0
	142.5	0	0	0	0	0	0	0	0	0	0	0
	145	0	0	0	0	0	0	0	0	0	0	0
	147.5	0	0	0	0	0	0	0	0	0	0	0
	150	0	0	0	0	0	0	0	0	0	0	0
	152.5	0	0	0	0	0	0	0	0	0	0	0
	155	0	0	0	0	0	0	0	0	0	0	0
	157.5	0	0	0	0	0	0	0	0	0	0	0
	160	0	0	0	0	0	0	0	0	0	0	0
	162.5	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0	
167.5	0	0	0	0	0	0	0	0	0	0	0	
170	0	0	0	0	0	0	0	0	0	0	0	
172.5	0	0	0	0	0	0	0	0	0	0	0	
175	0	0	0	0	0	0	0	0	0	0	0	
177.5	0	0	0	0	0	0	0	0	0	0	0	
180	0	0	0	0	0	0	0	0	0	0	0	



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Luminous Intensity (Candela) Table

	Lateral (C-Plane) Angles										
	90	95	105	115	125	135	145	155	165	175	180
0	3492	3492	3492	3492	3492	3492	3492	3492	3492	3492	3492
2.5	3486	3494	3509	3527	3545	3564	3579	3592	3598	3602	3606
5	3474	3489	3525	3564	3596	3620	3633	3639	3638	3638	3642
7.5	3454	3478	3530	3572	3596	3597	3588	3581	3572	3567	3571
10	3425	3456	3512	3542	3539	3522	3493	3462	3432	3419	3421
12.5	3386	3420	3468	3474	3451	3405	3349	3299	3257	3238	3241
15	3337	3369	3401	3382	3333	3259	3170	3090	3022	2987	2986
17.5	3275	3302	3308	3267	3192	3073	2944	2819	2715	2660	2657
20	3203	3223	3199	3138	3024	2855	2669	2485	2336	2258	2249
22.5	3121	3129	3076	2992	2829	2600	2339	2105	1932	1849	1840
25	3027	3020	2942	2828	2609	2307	2008	1789	1651	1601	1596
27.5	2922	2898	2797	2652	2363	2021	1749	1564	1471	1439	1435
30	2807	2766	2644	2459	2111	1787	1542	1397	1327	1297	1293
32.5	2683	2628	2485	2250	1886	1594	1375	1262	1198	1167	1163
35	2549	2482	2318	2038	1698	1427	1237	1142	1076	1044	1039
37.5	2408	2330	2146	1837	1534	1282	1123	1031	969	940	936
40	2258	2174	1970	1656	1386	1157	1020	932	875	851	847
42.5	2106	2015	1794	1498	1255	1051	927	845	793	770	766
45	1954	1855	1623	1355	1135	956	842	768	721	700	696
47.5	1799	1699	1461	1226	1027	869	767	700	659	638	634
50	1648	1549	1312	1107	929	790	702	641	604	585	581
52.5	1501	1404	1177	996	840	722	645	589	555	538	535
55	1359	1266	1057	893	762	663	594	542	512	496	493
57.5	1222	1137	945	799	689	608	544	497	470	457	455
60	1091	1014	839	713	622	553	494	452	428	417	414
62.5	966	899	738	634	561	500	445	405	385	375	373
65	848	786	647	562	503	446	396	359	342	335	334
67.5	733	675	561	491	444	392	348	316	302	296	294
70	622	571	480	423	384	339	301	273	262	253	251
72.5	514	472	402	356	322	286	256	232	220	211	209
75	413	378	326	291	262	234	211	191	178	173	172
77.5	316	290	254	227	205	184	166	150	140	136	135
80	226	208	184	166	151	136	124	111	104	101	100
82.5	143	131	119	109	100	91	84	75	72	70	69
85	70	65	61	57	55	52	49	43	40	39	38
87.5	19	18	18	19	19	17	15	14	13	12	12
90	0	0	0	0	0	0	0	0	0	0	0

Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.

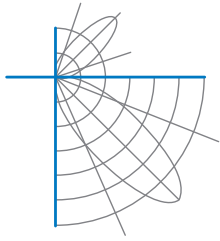


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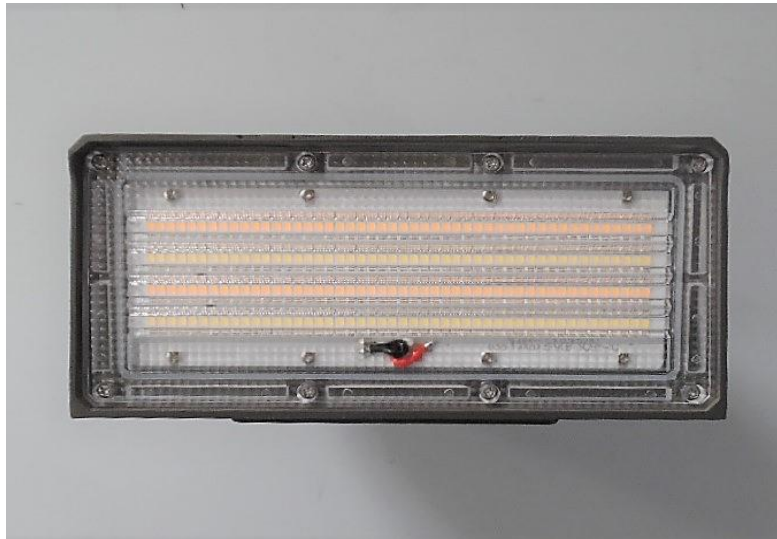
Luminous Intensity (Candela) Table

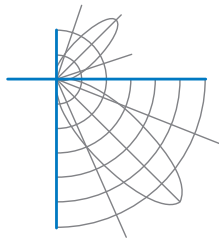
	Lateral (C-Plane) Angles											
	90	95	105	115	125	135	145	155	165	175	180	
Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	90	0	0	0	0	0	0	0	0	0	0	0
	92.5	0	0	0	0	0	0	0	0	0	0	0
	95	0	0	0	0	0	0	0	0	0	0	0
	97.5	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0
	102.5	0	0	0	0	0	0	0	0	0	0	0
	105	0	0	0	0	0	0	0	0	0	0	0
	107.5	0	0	0	0	0	0	0	0	0	0	0
	110	0	0	0	0	0	0	0	0	0	0	0
	112.5	0	0	0	0	0	0	0	0	0	0	0
	115	0	0	0	0	0	0	0	0	0	0	0
	117.5	0	0	0	0	0	0	0	0	0	0	0
	120	0	0	0	0	0	0	0	0	0	0	0
	122.5	0	0	0	0	0	0	0	0	0	0	0
	125	0	0	0	0	0	0	0	0	0	0	0
	127.5	0	0	0	0	0	0	0	0	0	0	0
	130	0	0	0	0	0	0	0	0	0	0	0
	132.5	0	0	0	0	0	0	0	0	0	0	0
	135	0	0	0	0	0	0	0	0	0	0	0
	137.5	0	0	0	0	0	0	0	0	0	0	0
	140	0	0	0	0	0	0	0	0	0	0	0
	142.5	0	0	0	0	0	0	0	0	0	0	0
	145	0	0	0	0	0	0	0	0	0	0	0
	147.5	0	0	0	0	0	0	0	0	0	0	0
	150	0	0	0	0	0	0	0	0	0	0	0
	152.5	0	0	0	0	0	0	0	0	0	0	0
	155	0	0	0	0	0	0	0	0	0	0	0
	157.5	0	0	0	0	0	0	0	0	0	0	0
	160	0	0	0	0	0	0	0	0	0	0	0
	162.5	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0	
167.5	0	0	0	0	0	0	0	0	0	0	0	
170	0	0	0	0	0	0	0	0	0	0	0	
172.5	0	0	0	0	0	0	0	0	0	0	0	
175	0	0	0	0	0	0	0	0	0	0	0	
177.5	0	0	0	0	0	0	0	0	0	0	0	
180	0	0	0	0	0	0	0	0	0	0	0	



Report of Test LLIA001630-008

Additional Pictures of Test Subject





Report of Test

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Test Distance 9.5 m
Ambient Temperature 25.1 °C

Notes

The laboratory has not participated in the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

Tested in accordance with the applicable sections of publications: IES LM-79-19. Format of reports and angular increments based on IES LM-31-20 and LM-10-20.

The luminous intensity values, and other derived quantities, contained in this report are based on absolute data.

Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections.

Photometric intensity values are reported using the IES C-Type spherical coordinate system as defined in IES LM-75-19.

This report may contain data that are not covered by the NVLAP accreditation. Quantities marked with ‡ are not covered.

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the Federal Government.

The device under test emits no detectable uplight, as defined by ANSI/IES LM-31-20. For the purpose of this report, certain non-zero uplight readings, attributable to instrument artifacts, have been assigned a zero value.