



Report of Test

LLIA001630-003

Roadway/Area Light Distribution Photometry Test Report

Catalog Number: WPFC-75W-PCTS-BZ-PC - 75W and 5000K Setting
Surface mounted wall pack, cast aluminum housing, clear plastic enclosure with lightly textured general finish, linear lens above each row of LEDs with vertical linear micro prisms.
192 LEDs, 96 cool white and 96 warm white LEDs on white circuit board
One BQ BQE78-0720-100-PVF-PS LED driver



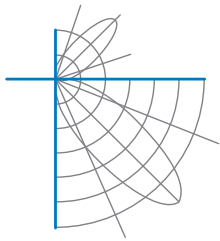
Prepared For:
Topaz Lighting Corp
925 Waverly Avenue
Holtsville, NY 11742, USA

Performance Summary			
Input Voltage	120.0 Vac	Luminous Flux	9611.1 Lumens
Input Current	0.6203 A	Total Efficacy	130.8 Lm/W
Input Power	73.48 W		
Frequency	60.00 Hz		
Power Factor	0.987	Roadway Type	Area Light
Current THD	12.5 %	IES BUG Rating	B2 - U0 - G2

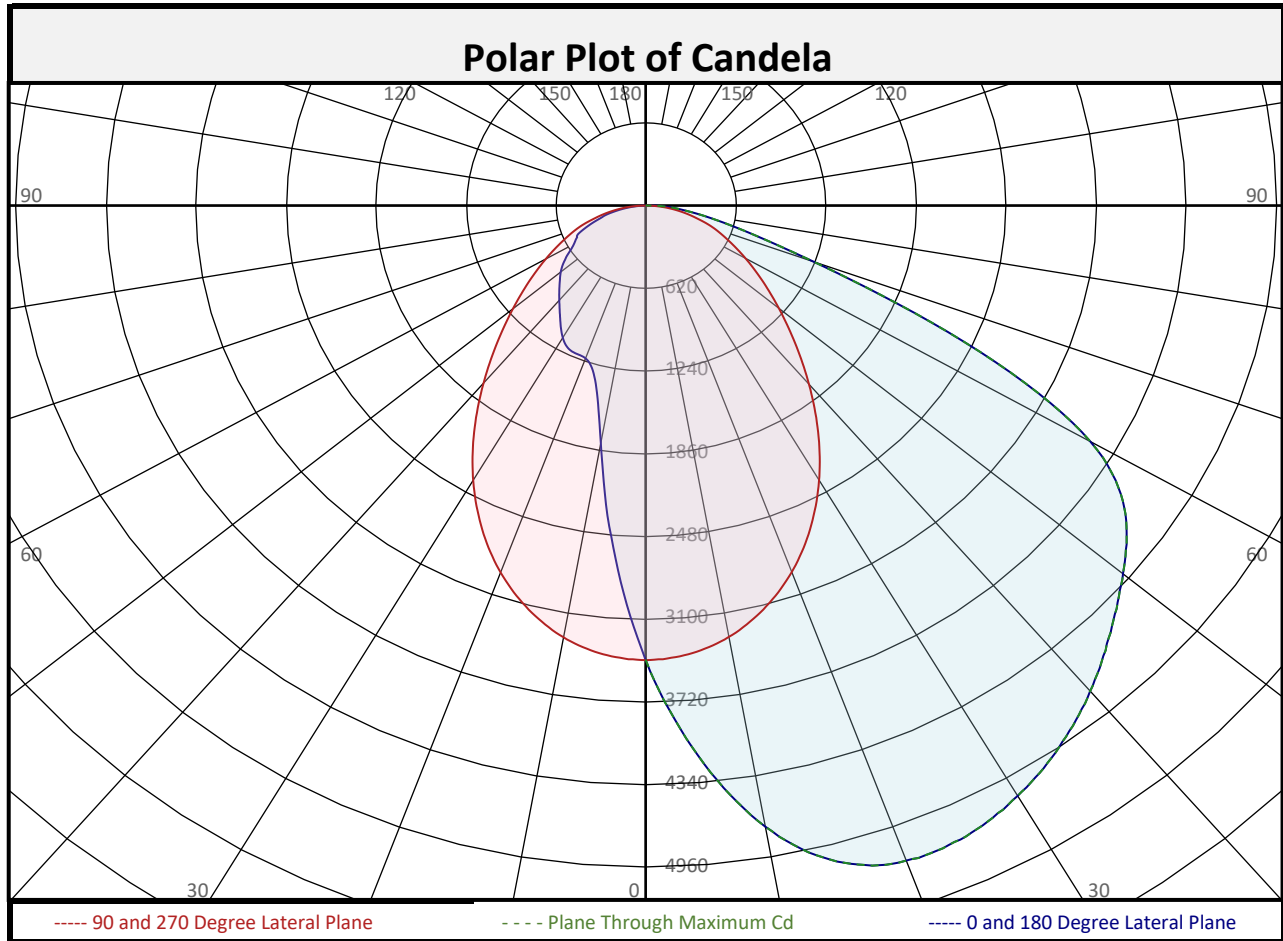
This test report was issued by LightLab International Allentown, LLC without alterations or erasures.

Test date: 01/12/2022
Report date: 01/14/2022

Signed: _____

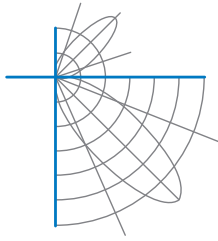


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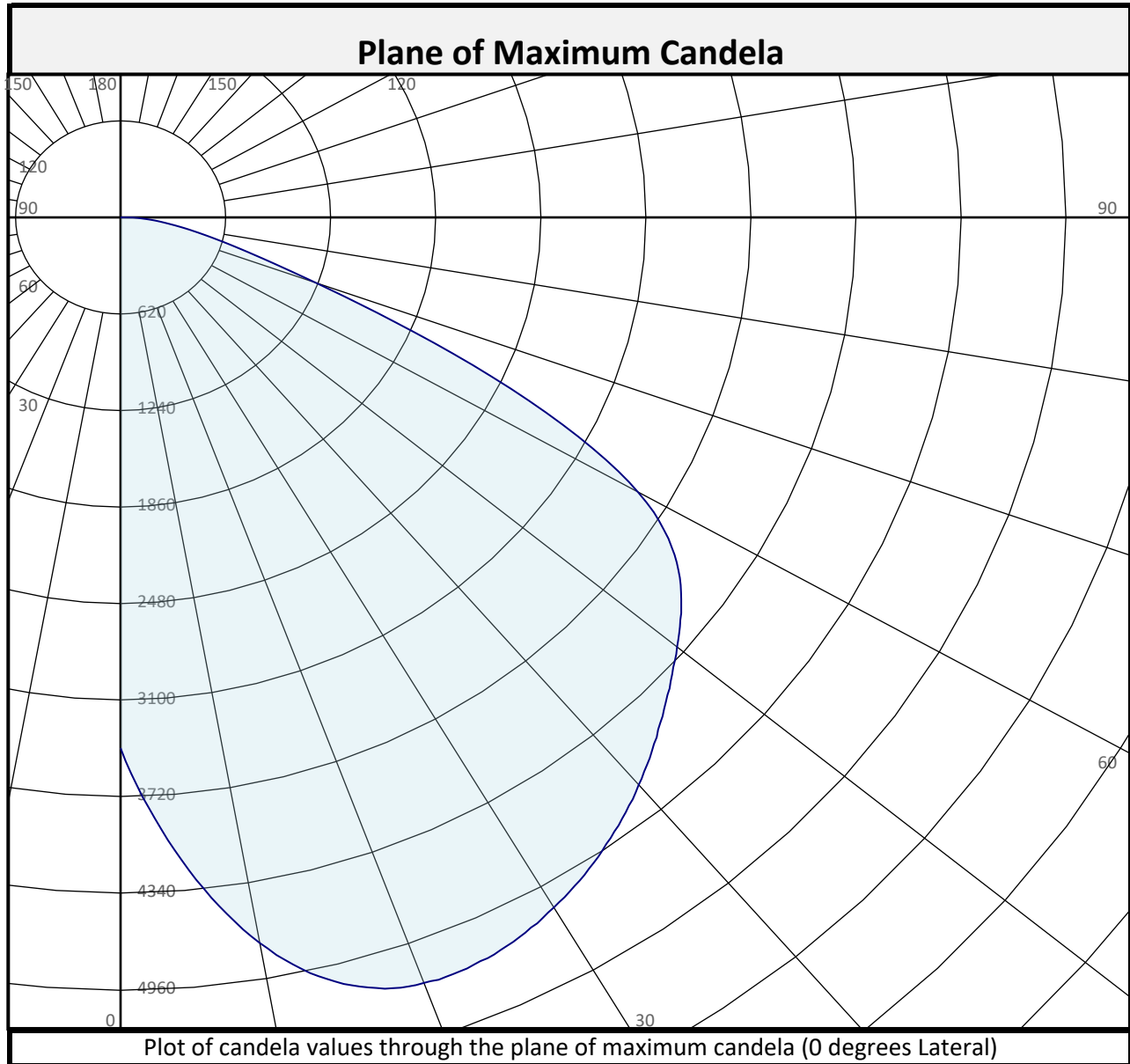


Zonal Flux Summary

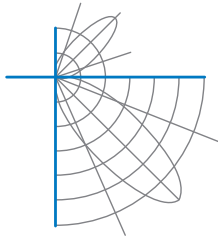
Zone (Deg Vert)	Flux (Lumens)	Percent of Total	Zone (Deg Vert)	Flux (Lumens)	Percent of Total	Zone (Deg Vert)	Flux (Lumens)	Percent of Total
0-10	318.3	3.3%	90-100	0.0	0.0%	0-20	1212	12.6%
10-20	894.0	9.3%	100-110	0.0	0.0%	0-30	2578	26.8%
20-30	1366	14.2%	110-120	0.0	0.0%	0-40	4241	44.1%
30-40	1663	17.3%	120-130	0.0	0.0%	0-60	7609	79.2%
40-50	1740	18.1%	130-140	0.0	0.0%	0-80	9448	98.3%
50-60	1629	16.9%	140-150	0.0	0.0%	10-90	9293	96.7%
60-70	1239	12.9%	150-160	0.0	0.0%	20-50	4769	49.6%
70-80	599.7	6.2%	160-170	0.0	0.0%	40-90	5370	55.9%
80-90	162.7	1.7%	170-180	0.0	0.0%	60-90	2002	20.8%
0-90	9611	100.0%	90-180	0.0	0.0%	0-180	9611	100.0%



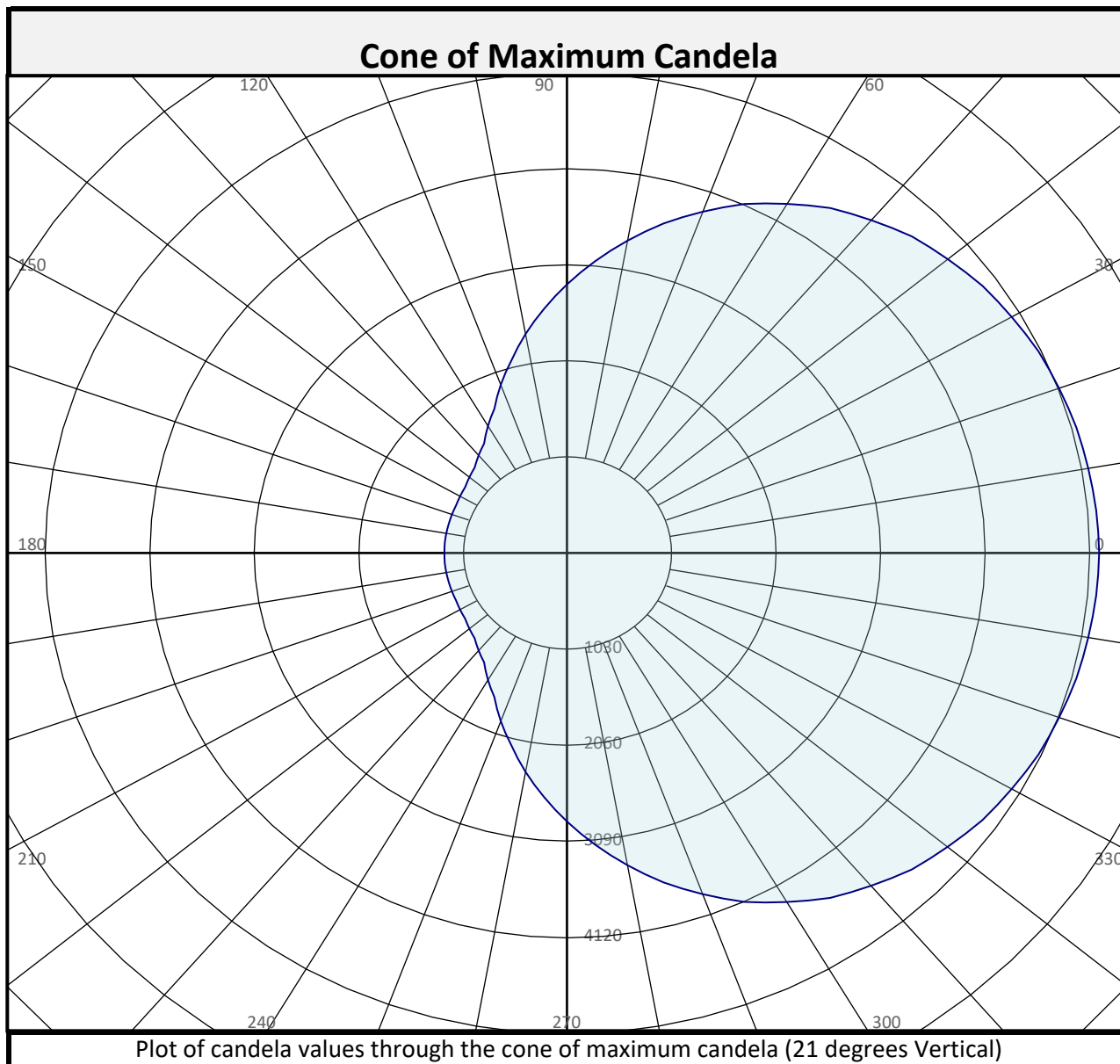
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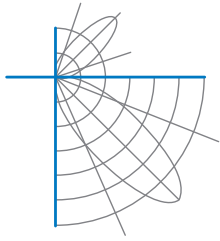
Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	7392.2	76.9%	0.0	0.0%	7392.2	76.9%
House Side	2218.9	23.1%	0.0	0.0%	2218.9	23.1%
Total	9611.1	100.0%	0.0	0.0%	9611.1	100.0%



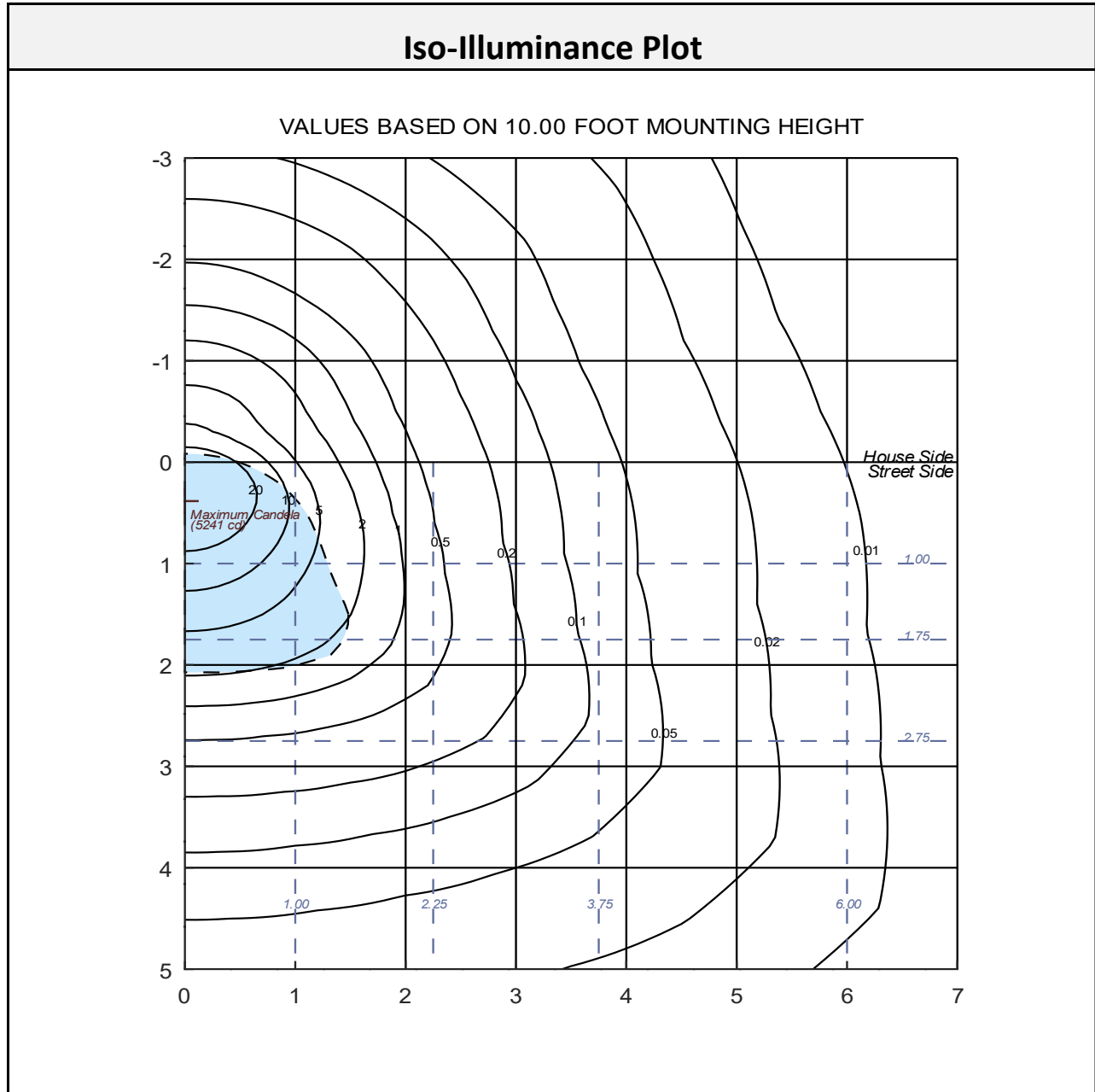
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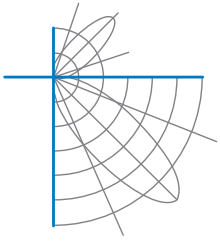
Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	7392.2	76.9%	0.0	0.0%	7392.2	76.9%
House Side	2218.9	23.1%	0.0	0.0%	2218.9	23.1%
Total	9611.1	100.0%	0.0	0.0%	9611.1	100.0%



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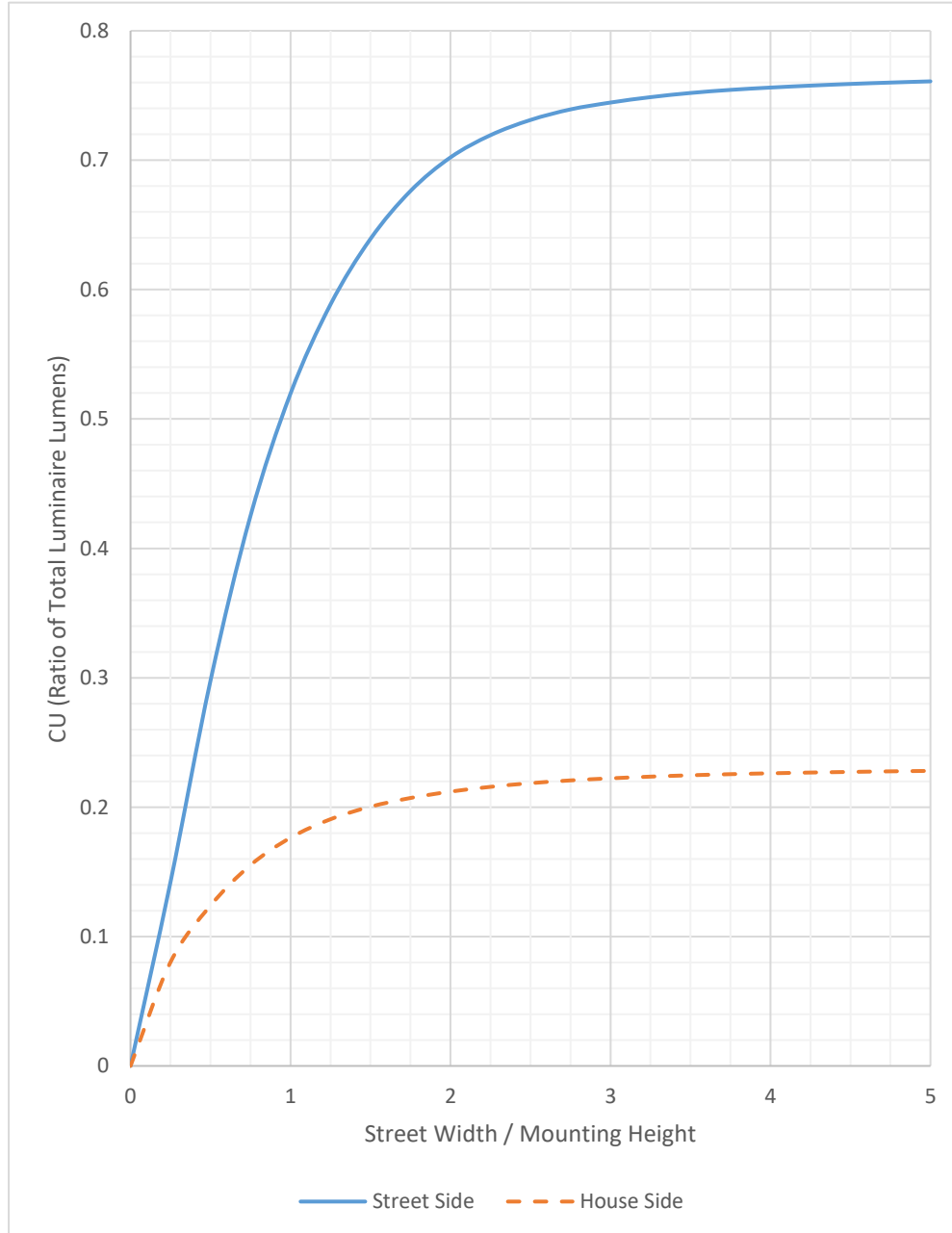


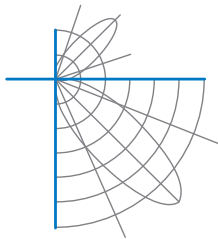
The isofootcandle values shown in the plot above are based on a mounting height of $h = 10.0$ feet. Grid values show multiples of mounting height. The isoilluminance contour lines are expressed in units of footcandles. The values expressed are based on the direct light from a single unit without the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



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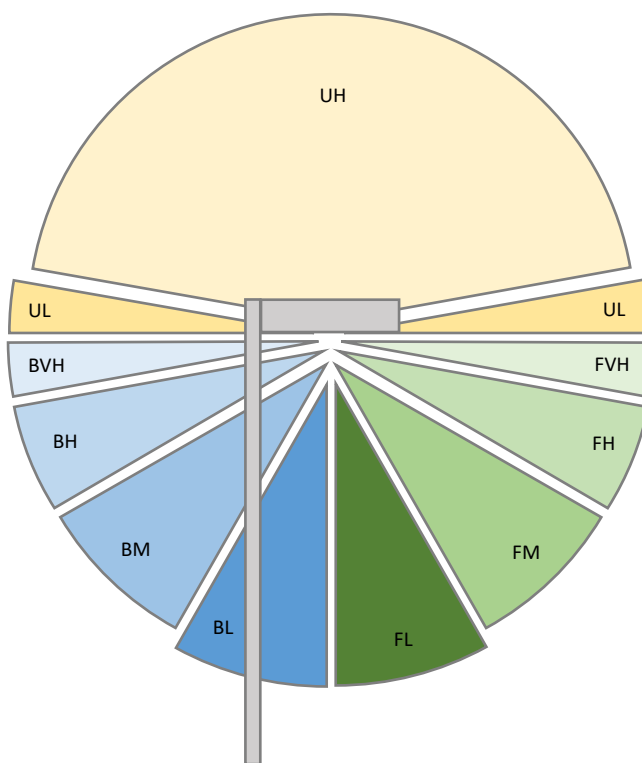
Coefficients of Utilization Plot





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LCS Tables and Bug Classification



Back Light

BL - Back Low (0°-30°)	726.4 Lm
BM - Back Mid (30°-60°)	1040.1 Lm
BH - Back High (60°-80°)	406.0 Lm
BVH - Back Very High (80°-90°)	46.4 Lm

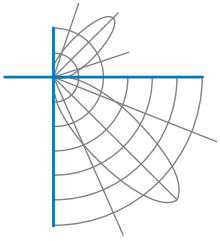
Forward Light

FL - Forward Low (0°-30°)	1851.6 Lm
FM - Forward Mid (30°-60°)	3991.4 Lm
FH - Forward High (60°-80°)	1432.9 Lm
FVH - Forward Very High (80°-90°)	116.3 Lm

Uplight

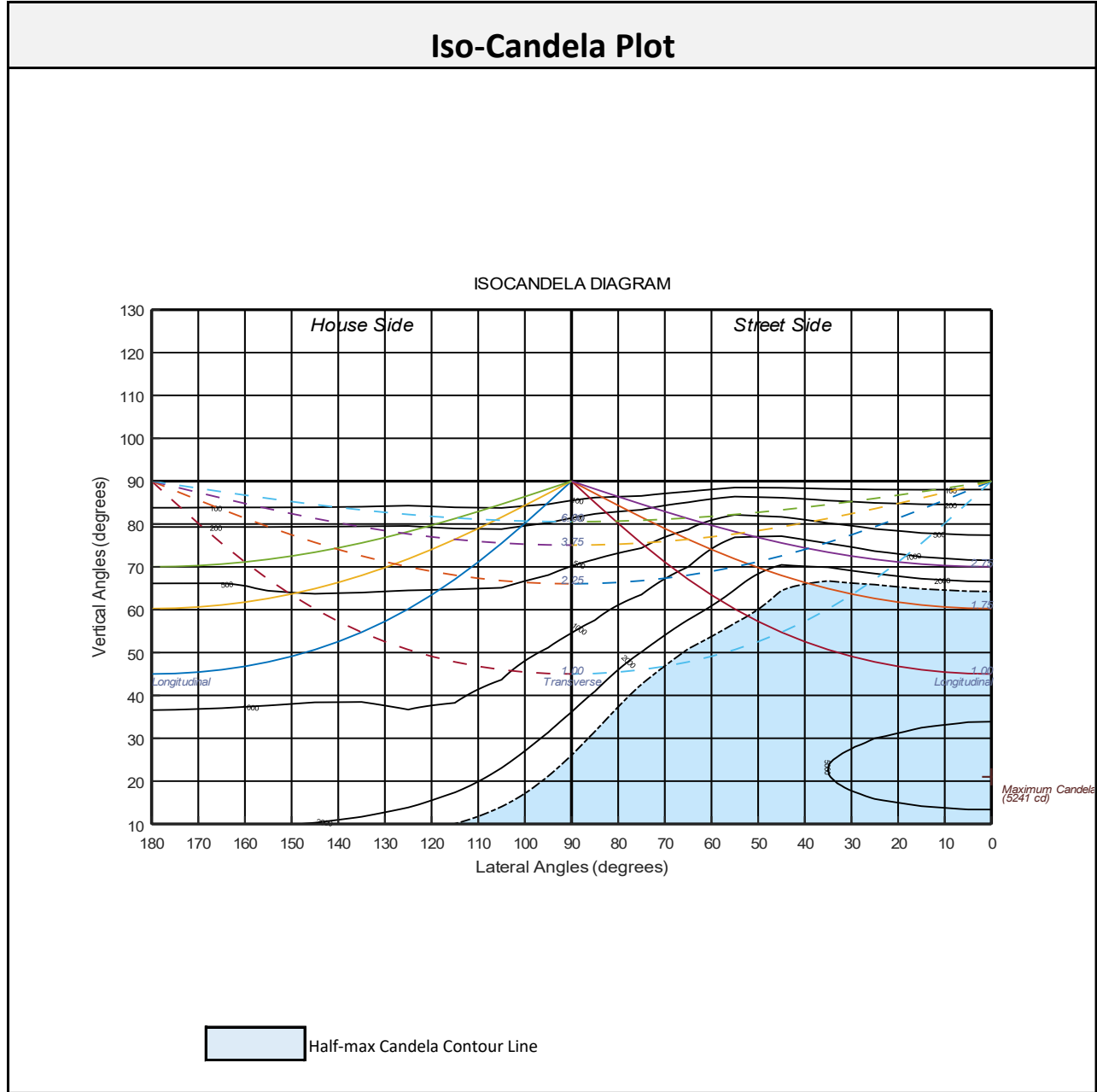
UL - Upward Low (90°-100°)	0.0 Lm
UH - Upward High (100°-180°)	0.0 Lm

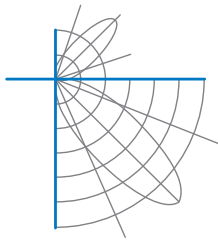
BUG Ratings: B2 - U0 - G2



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Iso-Candela Plot





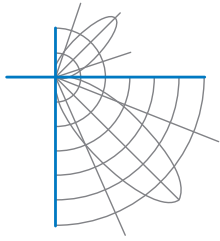
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Luminous Intensity (Candela) Table

	Lateral (C-Plane) Angles											
	0	5	15	25	35	45	55	65	75	85	90	
0	3405	3405	3405	3405	3405	3405	3405	3405	3405	3405	3405	3405
2.5	3790	3792	3774	3751	3715	3671	3617	3559	3496	3432	3397	
5	4140	4139	4110	4066	3999	3913	3810	3698	3573	3441	3375	
7.5	4457	4457	4416	4354	4259	4136	3985	3819	3633	3437	3337	
10	4727	4723	4679	4605	4486	4331	4140	3921	3676	3418	3283	
12.5	4940	4939	4891	4810	4675	4497	4270	4002	3702	3380	3215	
15	5093	5089	5045	4958	4824	4633	4377	4066	3707	3329	3134	
17.5	5190	5184	5139	5059	4925	4729	4454	4107	3698	3261	3038	
20	5229	5225	5188	5110	4981	4790	4505	4128	3671	3179	2931	
22.5	5237	5232	5194	5122	5001	4812	4527	4126	3629	3081	2810	
25	5219	5209	5175	5103	4987	4802	4519	4103	3567	2970	2679	
27.5	5175	5169	5132	5059	4942	4763	4484	4057	3485	2848	2538	
30	5115	5112	5070	5000	4873	4696	4422	3989	3385	2712	2388	
32.5	5046	5044	4999	4919	4791	4606	4332	3898	3271	2564	2232	
35	4960	4959	4913	4830	4693	4501	4223	3781	3134	2404	2072	
37.5	4864	4858	4816	4727	4582	4378	4095	3650	2982	2236	1911	
40	4757	4753	4706	4613	4456	4241	3943	3492	2811	2064	1752	
42.5	4644	4637	4589	4493	4324	4088	3778	3313	2626	1891	1599	
45	4527	4516	4471	4363	4183	3928	3597	3122	2428	1719	1456	
47.5	4406	4400	4350	4235	4037	3760	3405	2913	2222	1551	1322	
50	4289	4284	4229	4109	3886	3584	3202	2695	2012	1395	1199	
52.5	4173	4167	4112	3983	3742	3405	2990	2471	1799	1250	1085	
55	4032	4027	3989	3860	3603	3229	2778	2242	1595	1120	982	
57.5	3836	3833	3821	3727	3469	3055	2568	2014	1402	1002	886	
60	3530	3536	3569	3545	3334	2897	2360	1790	1222	895	797	
62.5	3047	3063	3158	3255	3155	2747	2162	1573	1060	796	714	
65	2417	2438	2585	2810	2884	2581	1977	1366	917	708	638	
67.5	1752	1771	1931	2228	2481	2357	1801	1175	791	628	569	
70	1229	1242	1368	1638	1981	2065	1614	1001	678	553	504	
72.5	886	896	977	1170	1481	1700	1410	842	575	476	435	
75	660	665	714	837	1065	1310	1185	697	477	397	361	
77.5	494	497	525	599	750	955	939	561	389	328	298	
80	368	370	384	426	516	659	693	434	306	261	234	
82.5	264	265	272	295	344	430	470	314	227	196	173	
85	184	185	187	197	221	261	285	203	147	131	112	
87.5	113	112	112	114	120	133	141	103	72	62	51	
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											
	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	
Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	0	3405	3405	3405	3405	3405	3405	3405	3405	3405	3405	3405
	2.5	3397	3361	3293	3227	3166	3117	3072	3036	3013	3005	2993
	5	3375	3303	3170	3038	2918	2815	2724	2653	2605	2584	2572
	7.5	3337	3233	3034	2837	2654	2501	2384	2287	2217	2185	2171
	10	3283	3150	2884	2625	2397	2209	2038	1915	1842	1806	1795
	12.5	3215	3050	2723	2408	2143	1906	1737	1626	1563	1533	1524
	15	3134	2941	2555	2207	1884	1658	1512	1426	1380	1360	1354
	17.5	3038	2818	2377	1988	1665	1468	1358	1300	1273	1264	1260
	20	2931	2685	2204	1780	1490	1336	1259	1228	1220	1221	1219
	22.5	2810	2543	2037	1602	1357	1241	1198	1194	1204	1211	1210
	25	2679	2394	1869	1454	1255	1177	1165	1183	1200	1208	1207
	27.5	2538	2242	1699	1334	1177	1132	1147	1173	1186	1190	1188
	30	2388	2085	1544	1235	1114	1102	1132	1149	1153	1151	1148
	32.5	2232	1931	1410	1152	1064	1078	1105	1110	1102	1096	1093
	35	2072	1777	1296	1081	1024	1051	1067	1059	1045	1036	1034
	37.5	1911	1630	1199	1018	988	1016	1018	1003	990	982	980
	40	1752	1493	1112	962	953	973	967	951	940	933	932
	42.5	1599	1367	1034	911	915	927	916	904	894	888	887
	45	1456	1249	962	863	874	878	870	858	851	845	845
	47.5	1322	1142	894	818	829	831	824	816	809	805	806
	50	1199	1044	831	773	783	786	782	775	770	767	768
	52.5	1085	951	772	728	737	742	739	732	727	724	723
	55	982	864	715	683	694	699	696	686	676	672	673
	57.5	886	784	660	639	651	654	644	627	619	615	616
	60	797	710	607	594	603	602	578	567	571	574	573
	62.5	714	640	554	546	550	534	522	525	538	544	544
	65	638	574	503	495	488	478	479	494	517	522	522
	67.5	569	513	450	437	431	430	449	463	467	467	467
	70	504	456	397	381	382	400	405	402	404	405	405
	72.5	435	393	341	326	349	352	345	342	343	343	343
75	361	324	280	277	303	292	287	285	292	297	298	
77.5	298	264	227	230	245	237	237	242	243	241	242	
80	234	206	176	176	190	191	186	184	185	184	184	
82.5	173	148	126	126	140	136	130	129	128	127	127	
85	112	91	76	79	83	80	80	79	77	75	75	
87.5	51	37	34	37	37	37	35	33	31	29	29	
90	0	0	0	0	0	0	0	0	0	0	0	

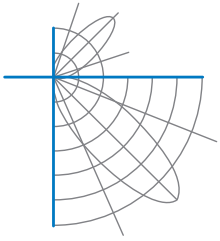


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Luminous Intensity (Candela) Table

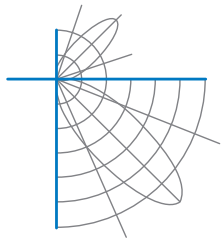
	Lateral (C-Plane) Angles											
	90	95	105	115	125	135	145	155	165	175	180	
Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	90	0	0	0	0	0	0	0	0	0	0	0
	92.5	0	0	0	0	0	0	0	0	0	0	0
	95	0	0	0	0	0	0	0	0	0	0	0
	97.5	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0
	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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Additional Pictures of Test Subject





Report of Test

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Test Distance 9.5 m
Ambient Temperature 24.7 °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.