



Report of Test

LLIA001630-009

Roadway/Area Light Distribution Photometry Test Report

Catalog Number: WPA-75W-PCTS-BZ-PC - 75W 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

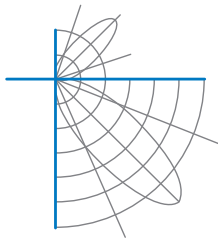
Performance Summary			
Input Voltage	120.0 Vac	Luminous Flux	9206.7 Lumens
Input Current	0.6214 A	Total Efficacy	125.2 Lm/W
Input Power	73.53 W		
Frequency	60.00 Hz		
Power Factor	0.986	Roadway Type	Area Light
Current THD	12.9 %	IES BUG Rating	B3 - U0 - G1

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

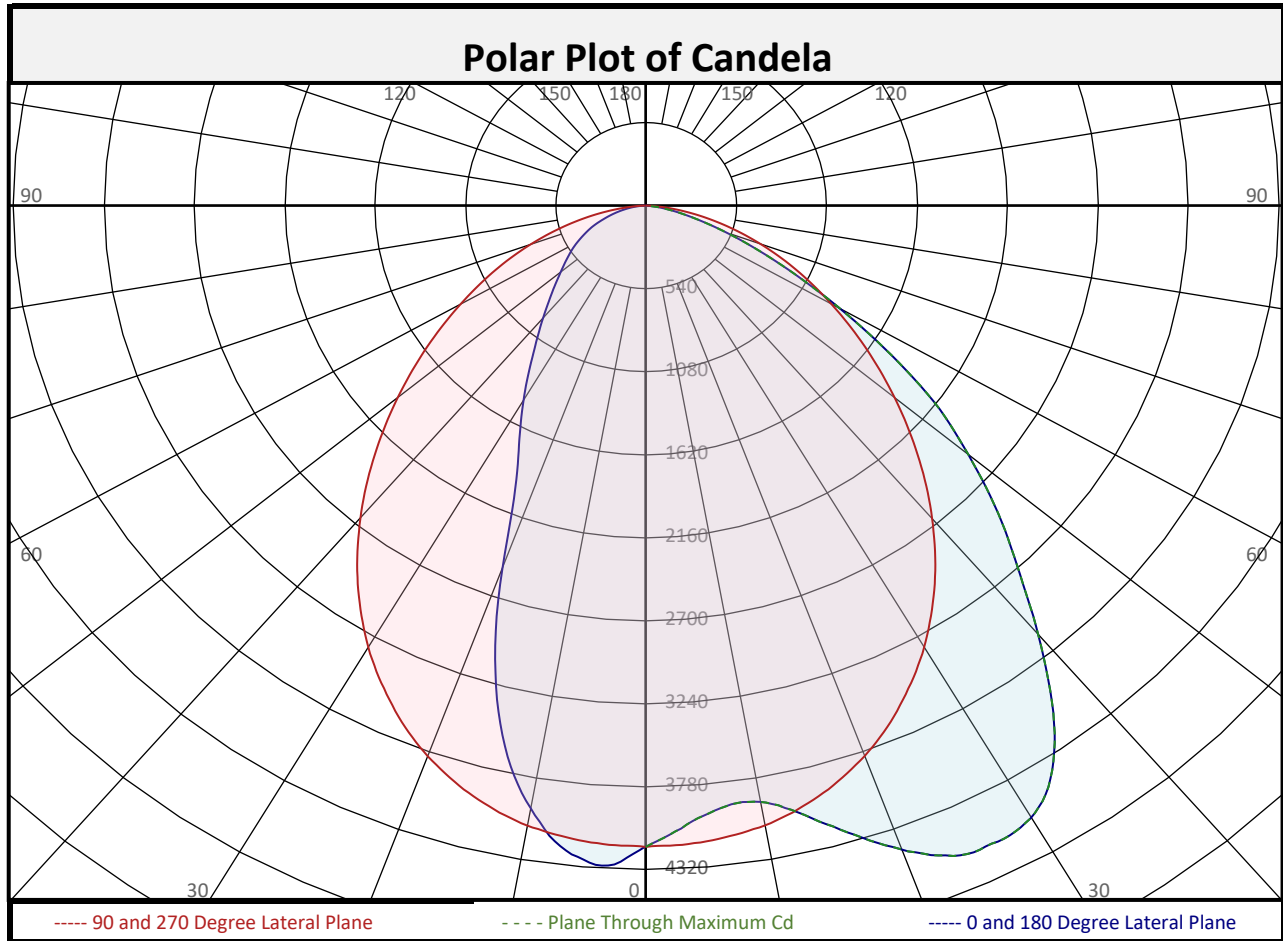
Test date: 01/14/2022

Report date: 01/14/2022

Signed: _____

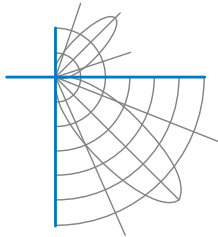


Report of Test
LLIA001630-009

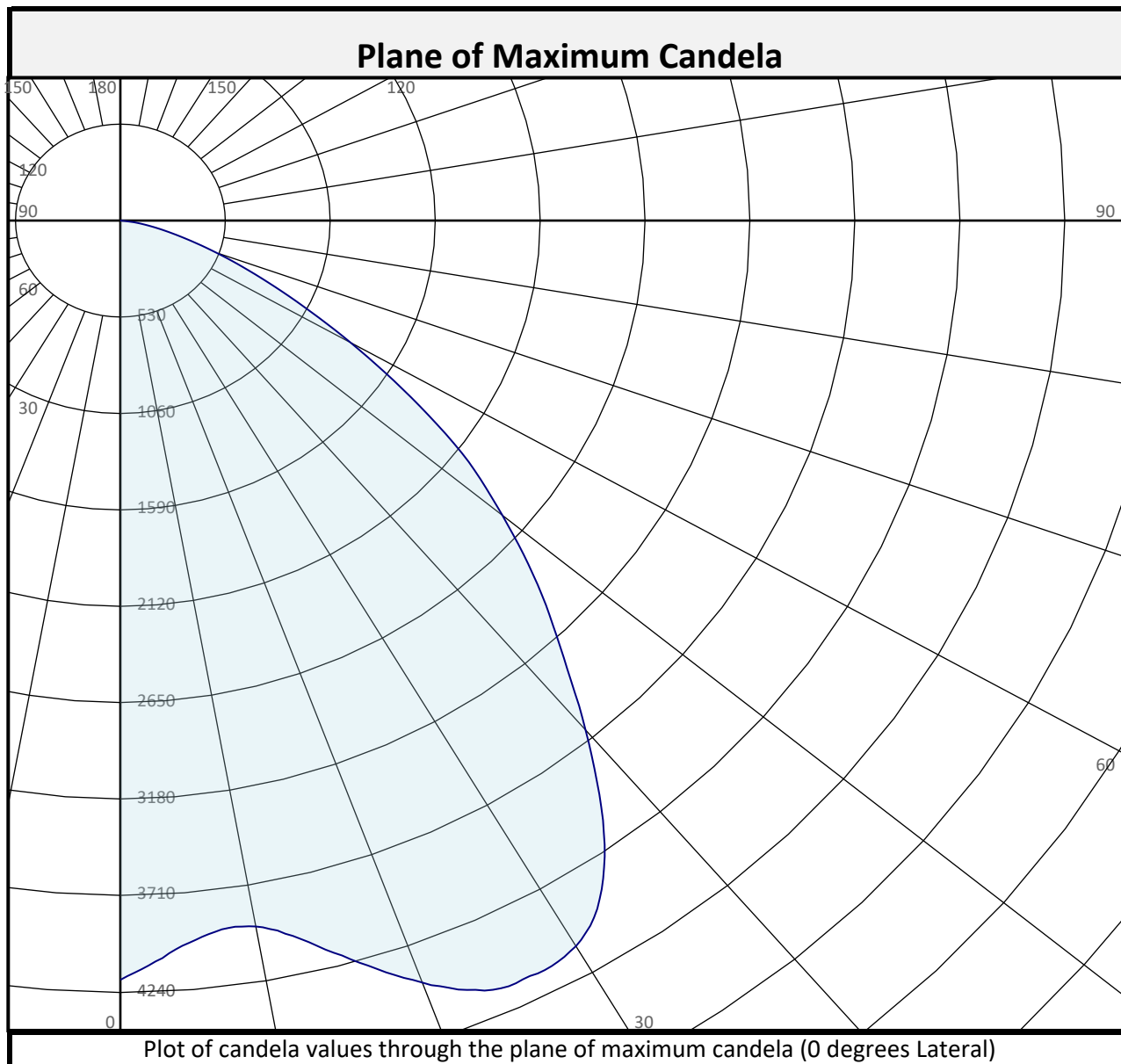


Zonal Flux Summary

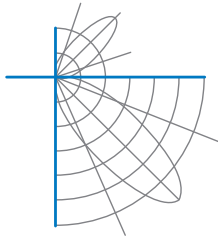
Zone (Deg Vert)	Flux (Lumens)	Percent of Total	Zone (Deg Vert)	Flux (Lumens)	Percent of Total	Zone (Deg Vert)	Flux (Lumens)	Percent of Total
0-10	392.0	4.3%	90-100	0.0	0.0%	0-20	1475	16.0%
10-20	1083	11.8%	100-110	0.0	0.0%	0-30	3018	32.8%
20-30	1543	16.8%	110-120	0.0	0.0%	0-40	4771	51.8%
30-40	1753	19.0%	120-130	0.0	0.0%	0-60	7776	84.5%
40-50	1657	18.0%	130-140	0.0	0.0%	0-80	9121	99.1%
50-60	1348	14.6%	140-150	0.0	0.0%	10-90	8815	95.7%
60-70	902.4	9.8%	150-160	0.0	0.0%	20-50	4953	53.8%
70-80	443.0	4.8%	160-170	0.0	0.0%	40-90	4436	48.2%
80-90	85.2	0.9%	170-180	0.0	0.0%	60-90	1431	15.5%
0-90	9207	100.0%	90-180	0.0	0.0%	0-180	9207	100.0%



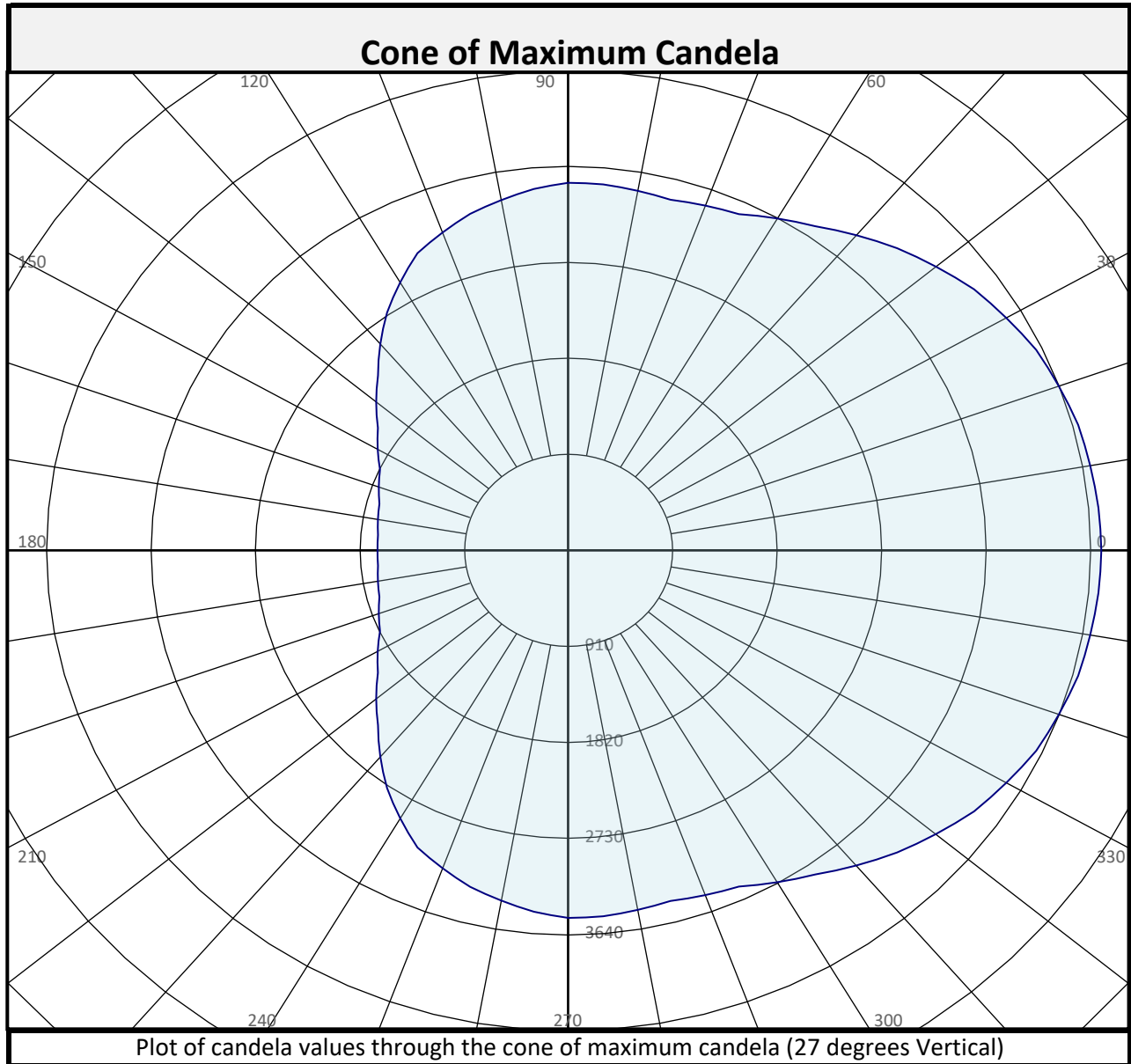
Report of Test
LLIA001630-009



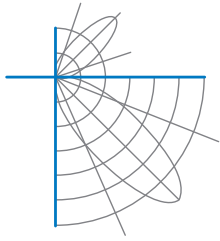
Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	5955.2	64.7%	0.0	0.0%	5955.2	64.7%
House Side	3251.5	35.3%	0.0	0.0%	3251.5	35.3%
Total	9206.7	100.0%	0.0	0.0%	9206.7	100.0%



Report of Test
LLIA001630-009

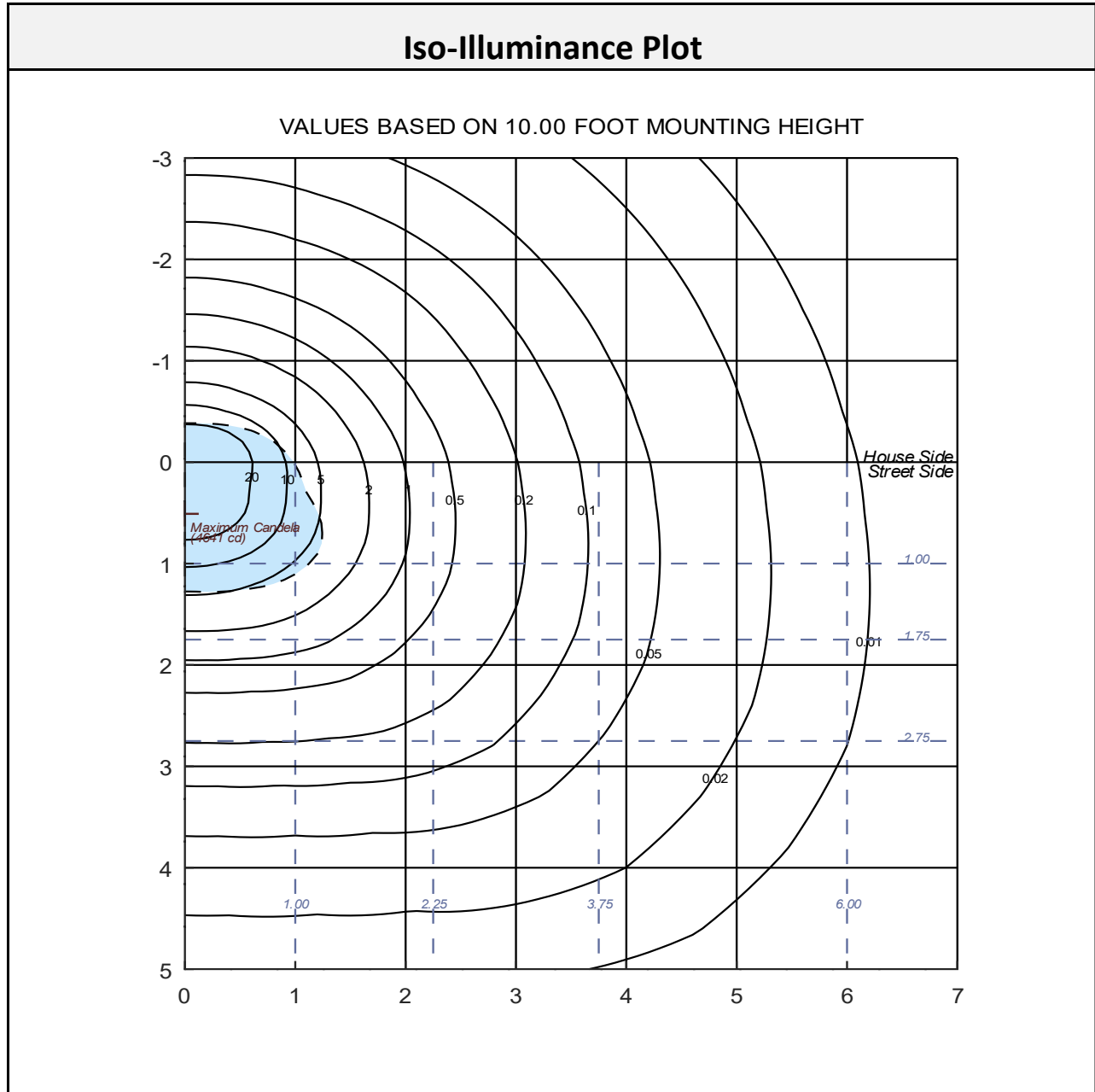


Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	5955.2	64.7%	0.0	0.0%	5955.2	64.7%
House Side	3251.5	35.3%	0.0	0.0%	3251.5	35.3%
Total	9206.7	100.0%	0.0	0.0%	9206.7	100.0%

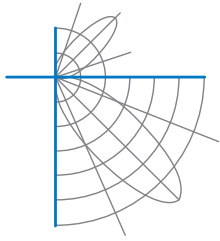


Report of Test

LLIA001630-009

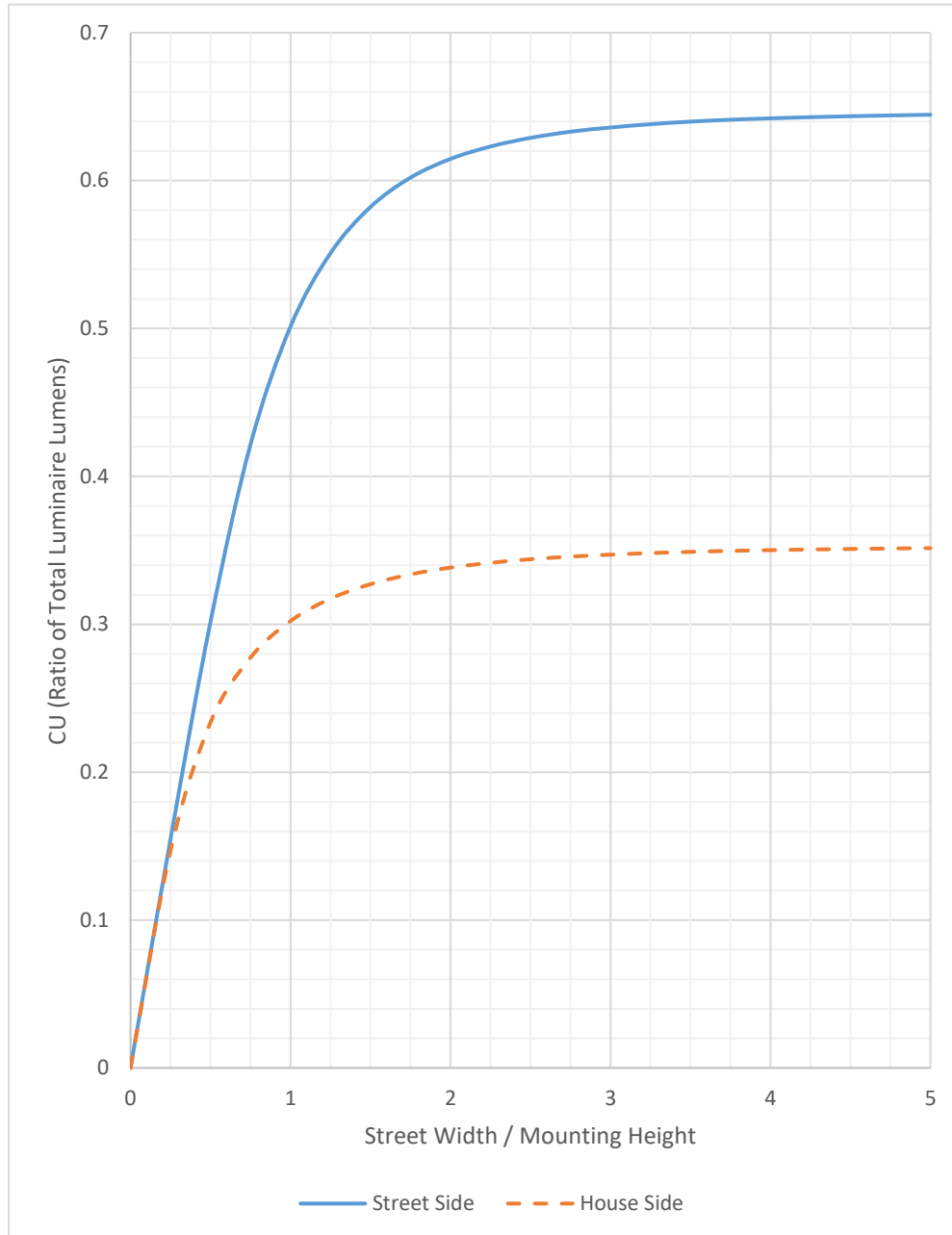


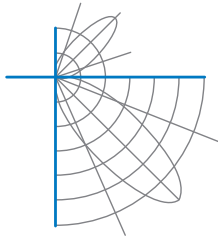
The isofootcandle values shown in the plot above are based on a mounting height of $h = 10.0$ feet. Grid values show multiples of mounting height. The isoilluminance contour lines are expressed in units of footcandles. The values expressed are based on the direct light from a single unit without the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



Report of Test LLIA001630-009

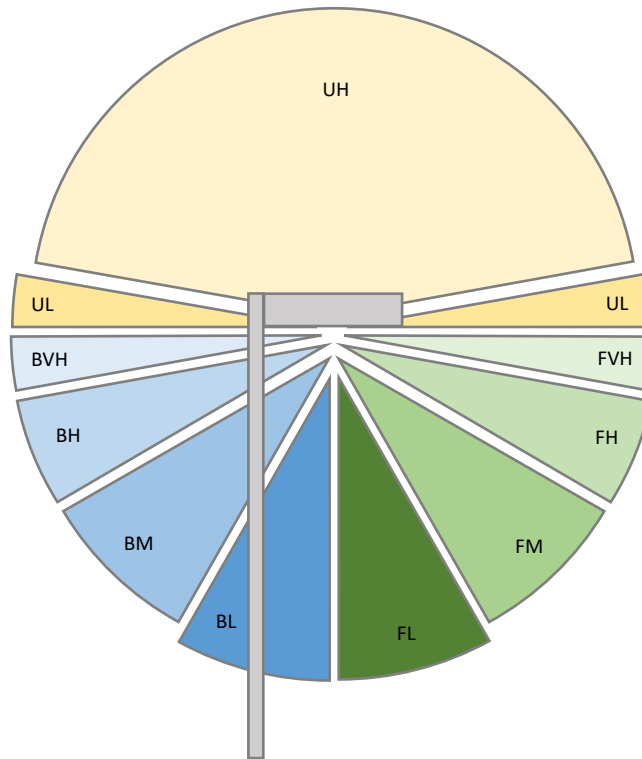
Coefficients of Utilization Plot





Report of Test
LLIA001630-009

LCS Tables and Bug Classification



Back Light

BL - Back Low (0°-30°)	1331.4 Lm
BM - Back Mid (30°-60°)	1458.5 Lm
BH - Back High (60°-80°)	427.2 Lm
BVH - Back Very High (80°-90°)	34.4 Lm

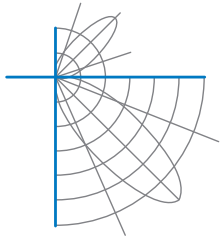
Forward Light

FL - Forward Low (0°-30°)	1686.5 Lm
FM - Forward Mid (30°-60°)	3299.7 Lm
FH - Forward High (60°-80°)	918.2 Lm
FVH - Forward Very High (80°-90°)	50.9 Lm

Uplight

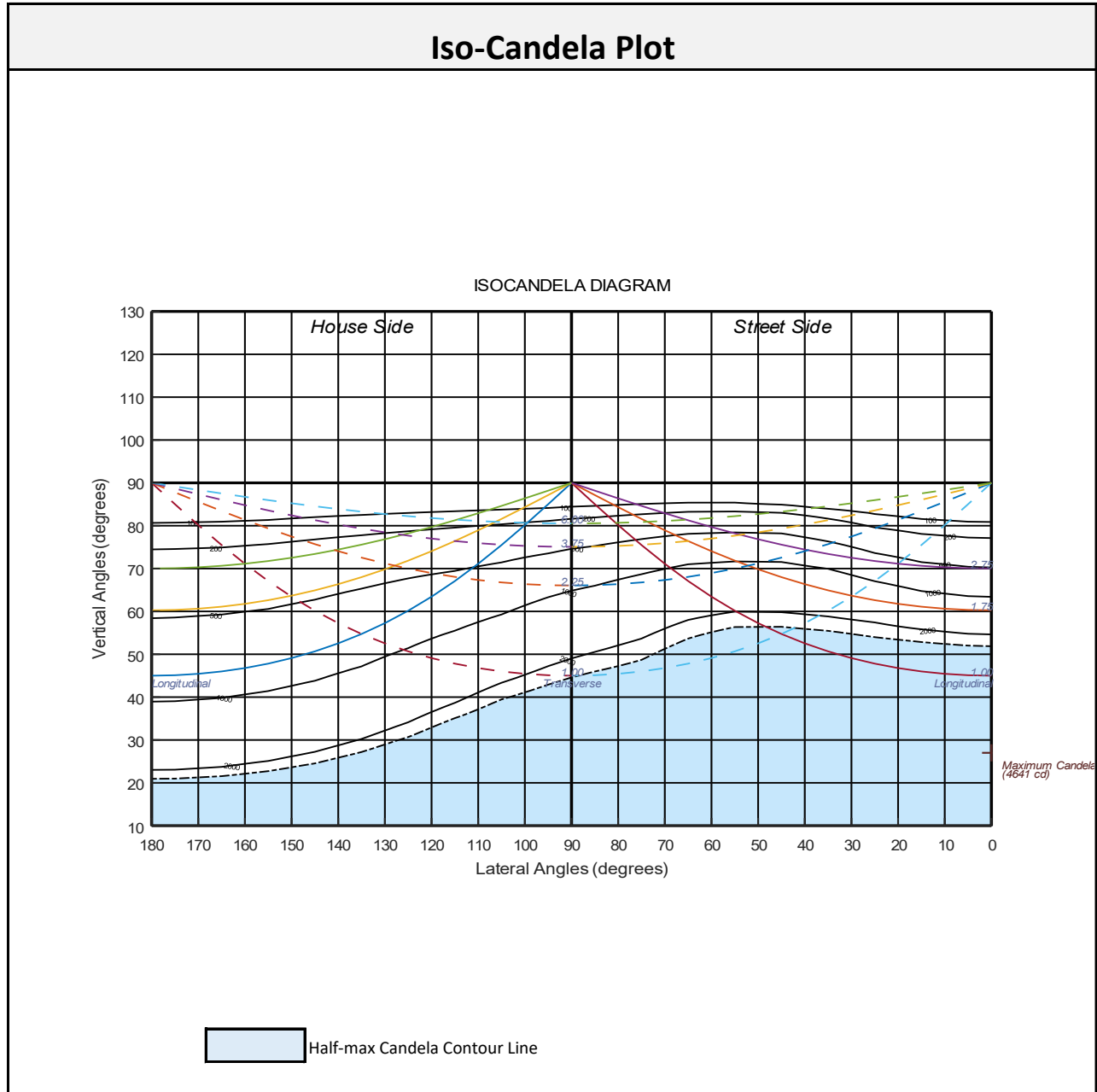
UL - Upward Low (90°-100°)	0.0 Lm
UH - Upward High (100°-180°)	0.0 Lm

BUG Ratings: B3 - U0 - G1



Report of Test
LLIA001630-009

Iso-Candela Plot



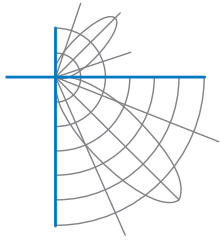


Report of Test

LLIA001630-009

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.	0	4170	4170	4170	4170	4170	4170	4170	4170	4170	4170	4170
	2.5	4073	4075	4085	4084	4097	4104	4113	4126	4139	4153	4162
	5	3982	3981	3991	3994	4012	4028	4048	4071	4103	4131	4150
	7.5	3926	3928	3934	3935	3947	3957	3979	4011	4055	4101	4125
	10	3937	3934	3935	3916	3906	3903	3915	3951	4000	4057	4092
	12.5	4024	4025	4008	3959	3913	3873	3861	3886	3936	4004	4043
	15	4163	4163	4129	4055	3966	3875	3821	3818	3864	3936	3976
	17.5	4310	4308	4269	4172	4046	3905	3790	3754	3783	3861	3899
	20	4453	4450	4403	4284	4130	3944	3776	3690	3702	3777	3810
	22.5	4573	4570	4516	4388	4212	3987	3768	3626	3616	3682	3706
	25	4640	4640	4591	4468	4276	4024	3757	3564	3519	3574	3584
	27.5	4641	4633	4594	4493	4314	4052	3746	3502	3421	3457	3457
	30	4601	4601	4558	4461	4307	4053	3725	3436	3314	3334	3317
	32.5	4482	4486	4469	4389	4248	4030	3691	3364	3205	3198	3163
	35	4263	4278	4298	4268	4154	3963	3642	3283	3087	3052	3003
	37.5	3973	3988	4048	4082	4023	3860	3568	3194	2958	2897	2831
	40	3654	3670	3746	3840	3849	3726	3470	3091	2828	2730	2654
	42.5	3340	3354	3439	3561	3637	3564	3346	2981	2688	2563	2475
	45	3064	3069	3144	3270	3393	3374	3199	2855	2543	2390	2291
	47.5	2794	2802	2876	2996	3133	3161	3032	2718	2393	2215	2110
	50	2518	2530	2608	2733	2876	2931	2847	2564	2239	2039	1932
	52.5	2255	2269	2354	2465	2623	2695	2648	2400	2077	1867	1759
	55	1953	1972	2096	2225	2368	2455	2439	2225	1913	1696	1591
	57.5	1639	1657	1794	1993	2123	2215	2220	2039	1748	1531	1429
	60	1346	1363	1494	1731	1896	1983	1996	1850	1579	1369	1275
	62.5	1082	1099	1217	1454	1673	1752	1772	1656	1410	1212	1129
	65	862	875	977	1193	1446	1530	1555	1460	1243	1060	990
	67.5	674	685	770	960	1217	1319	1343	1265	1076	913	856
	70	515	526	594	752	995	1120	1135	1075	914	774	725
	72.5	380	388	443	573	786	927	934	889	758	639	600
75	272	277	318	416	594	736	742	709	608	513	481	
77.5	188	192	220	288	423	550	564	540	465	394	369	
80	119	121	139	184	279	376	397	382	330	281	264	
82.5	67	68	79	106	164	226	245	240	208	177	167	
85	17	17	20	28	48	95	118	116	103	88	82	
87.5	0	0	0	0	1	4	13	21	26	23	22	
90	0	0	0	0	0	0	0	0	0	0	0	

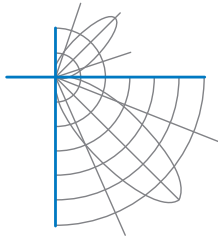


Report of Test

LLIA001630-009

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	

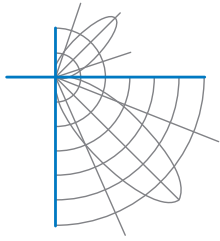


Report of Test

LLIA001630-009

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	4170	4170	4170	4170	4170	4170	4170	4170	4170	4170	4170
	2.5	4162	4174	4194	4213	4238	4254	4273	4283	4289	4289	4292
	5	4150	4166	4213	4247	4275	4286	4288	4285	4281	4274	4273
	7.5	4125	4155	4204	4234	4241	4224	4214	4200	4185	4174	4173
	10	4092	4126	4166	4173	4159	4127	4081	4033	3996	3979	3979
	12.5	4043	4075	4099	4081	4044	3973	3896	3826	3771	3741	3738
	15	3976	4004	4004	3966	3892	3786	3663	3554	3464	3410	3410
	17.5	3899	3918	3888	3823	3713	3548	3376	3208	3074	3001	3001
	20	3810	3814	3752	3661	3499	3274	3032	2798	2617	2518	2510
	22.5	3706	3693	3603	3480	3254	2958	2632	2357	2163	2071	2063
	25	3584	3556	3442	3278	2986	2607	2259	2012	1866	1811	1808
	27.5	3457	3409	3268	3062	2690	2285	1974	1766	1667	1630	1627
	30	3317	3253	3085	2824	2397	2022	1744	1582	1505	1469	1465
	32.5	3163	3085	2890	2577	2143	1803	1555	1431	1356	1320	1313
	35	3003	2908	2691	2330	1930	1615	1403	1295	1217	1180	1175
	37.5	2831	2730	2483	2099	1743	1453	1275	1168	1097	1064	1059
	40	2654	2541	2275	1895	1576	1313	1157	1057	993	963	958
	42.5	2475	2352	2069	1713	1427	1194	1052	958	900	873	868
	45	2291	2165	1867	1551	1292	1087	956	871	819	795	790
	47.5	2110	1981	1680	1404	1169	988	873	796	749	726	721
50	1932	1802	1509	1268	1058	900	800	730	686	665	661	
52.5	1759	1633	1354	1140	958	823	735	671	632	613	609	
55	1591	1472	1216	1022	868	755	676	617	582	565	561	
57.5	1429	1318	1087	914	785	692	619	565	534	520	517	
60	1275	1177	965	815	709	630	562	512	485	473	470	
62.5	1129	1042	849	727	641	569	505	459	436	425	423	
65	990	911	744	644	574	508	449	407	388	380	378	
67.5	856	782	646	562	506	446	395	357	341	334	332	
70	725	661	552	483	436	384	341	308	295	283	281	
72.5	600	546	462	406	365	324	288	261	246	236	234	
75	481	438	375	331	296	264	236	214	198	192	191	
77.5	369	336	291	258	230	206	186	166	155	150	149	
80	264	240	210	188	168	151	137	122	114	111	110	
82.5	167	152	135	122	110	100	92	82	77	75	74	
85	82	75	68	63	59	55	51	45	41	39	39	
87.5	22	21	20	20	18	16	14	12	11	10	10	
90	0	0	0	0	0	0	0	0	0	0	0	

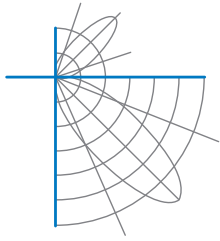


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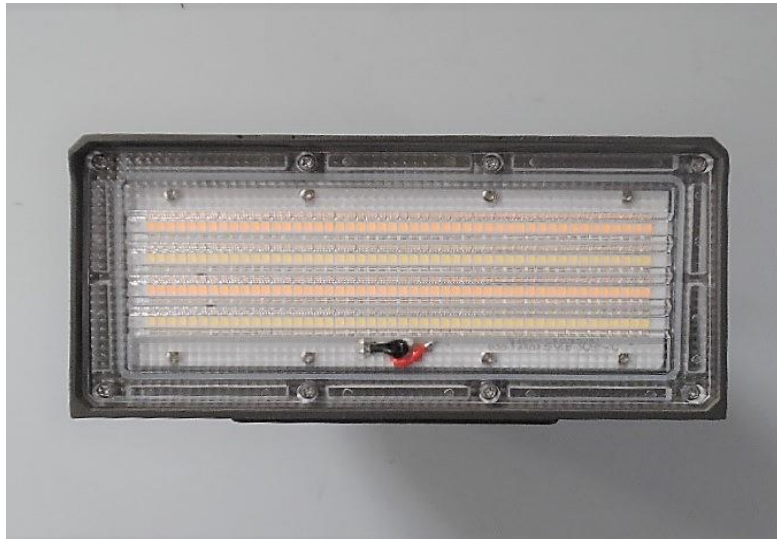
Luminous Intensity (Candela) Table

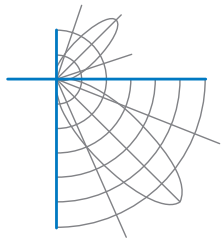
	Lateral (C-Plane) Angles											
	90	95	105	115	125	135	145	155	165	175	180	
Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	90	0	0	0	0	0	0	0	0	0	0	0
	92.5	0	0	0	0	0	0	0	0	0	0	0
	95	0	0	0	0	0	0	0	0	0	0	0
	97.5	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0
	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 25.2 °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.