



Report of Test

LLIA001821-013A

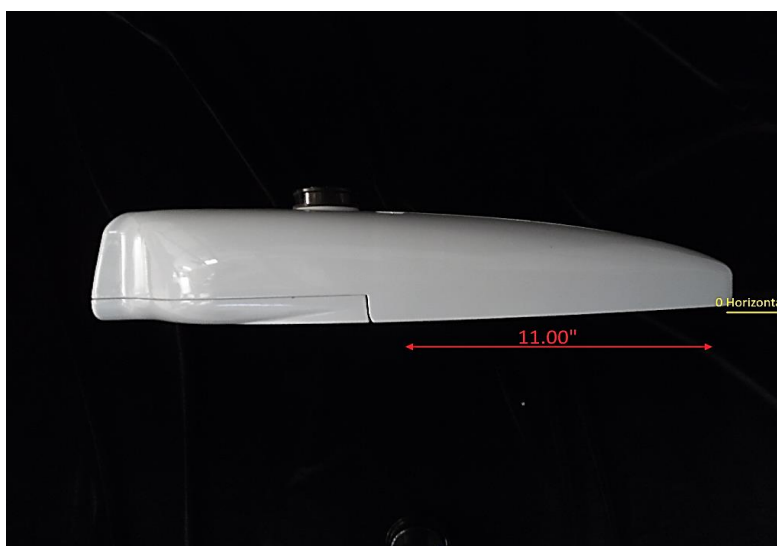
Roadway/Area Light Distribution Photometry Test Report

Catalog Number: L6-60M-5-X-2ES-J-X-XX-3-XX-X-X-X

Pole/arm mounted, gray painted cast aluminum housing and driver compartment cover, one circuit board, one clear plastic lens with optic below each LED, open bottom.

60 white LEDs

Osram OT180W/UNV/800C/2DIM/P6 LED driver set at 750mA, Littlefuse LSP10277SBX3472 suppressor.



Prepared For:

LED Roadway Lighting

84 Chain Lake Drive

Suite 403

Halifax, Nova Scotia B3S 1A2, Canada

Performance Summary

Input Voltage	120.0 Vac	Luminous Flux	15080.4 Lumens
Input Current	0.7851 A	Total Efficacy	161.3 Lm/W
Input Power	93.52 W		
Frequency	60.00 Hz	Roadway Throw	Medium
Power Factor	0.992	Roadway Type	Type II
Current THD	5.0 %	IES BUG Rating	B3 - U0 - G3

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

Test date: 08/01/2022

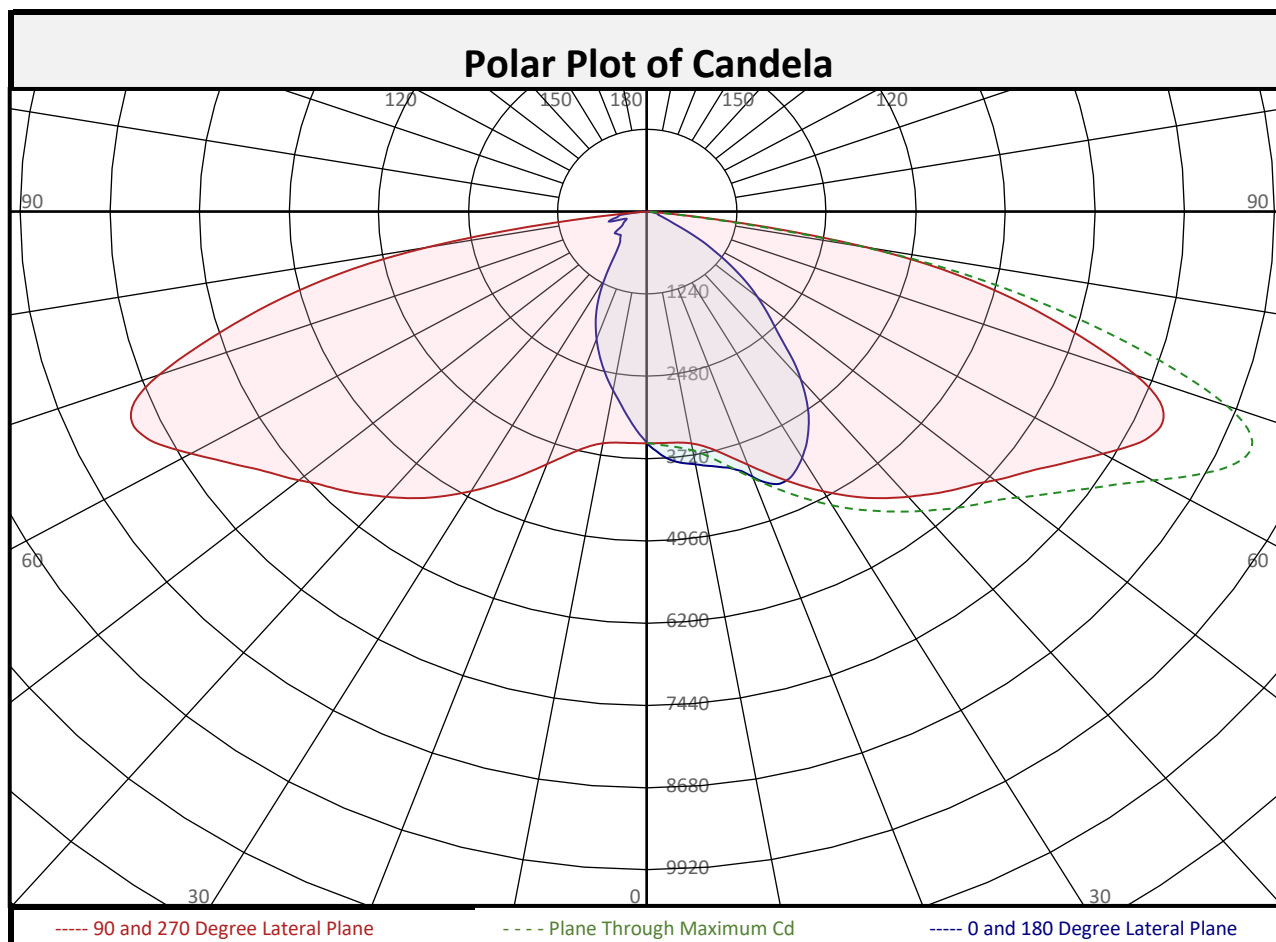
Report date: 08/02/2022

Signed: _____



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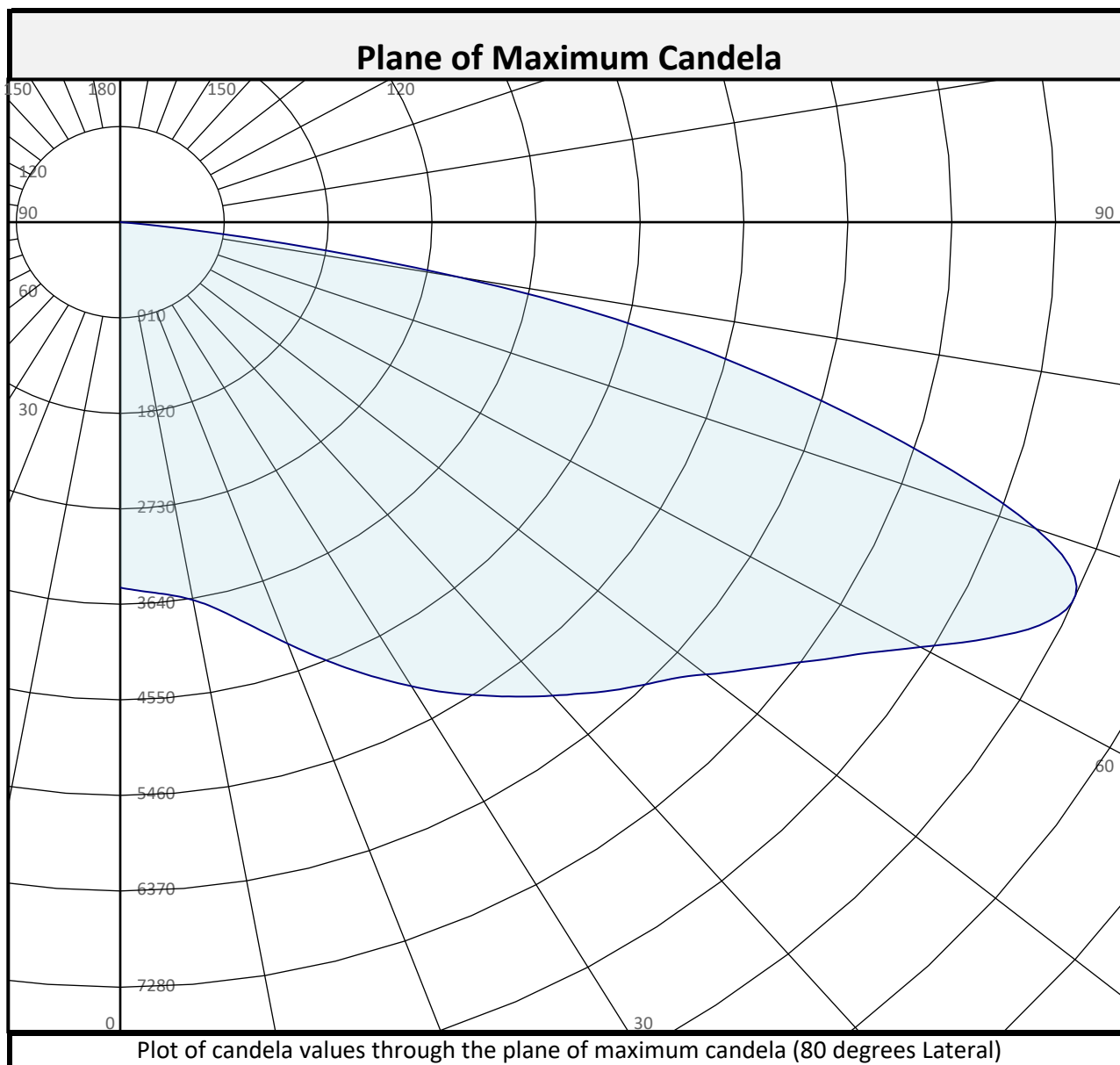


Zonal Flux Summary										
Zone (Deg Vert)	Flux (Lumens)	Percent of Total		Zone (Deg Vert)	Flux (Lumens)	Percent of Total		Zone (Deg Vert)	Flux (Lumens)	Percent of Total
0-10	328.1	2.2%		90-100	0.0	0.0%		0-20	1299	8.6%
10-20	971.1	6.4%		100-110	0.0	0.0%		0-30	2961	19.6%
20-30	1662	11.0%		110-120	0.0	0.0%		0-40	5219	34.6%
30-40	2258	15.0%		120-130	0.0	0.0%		0-60	10751	71.3%
40-50	2649	17.6%		130-140	0.0	0.0%		0-80	14890	98.7%
50-60	2883	19.1%		140-150	0.0	0.0%		10-90	14752	97.8%
60-70	2668	17.7%		150-160	0.0	0.0%		20-50	6568	43.6%
70-80	1471	9.8%		160-170	0.0	0.0%		40-90	9862	65.4%
80-90	190.4	1.3%		170-180	0.0	0.0%		60-90	4330	28.7%
0-90	15080	100.0%		90-180	0.0	0.0%		0-180	15080	100.0%



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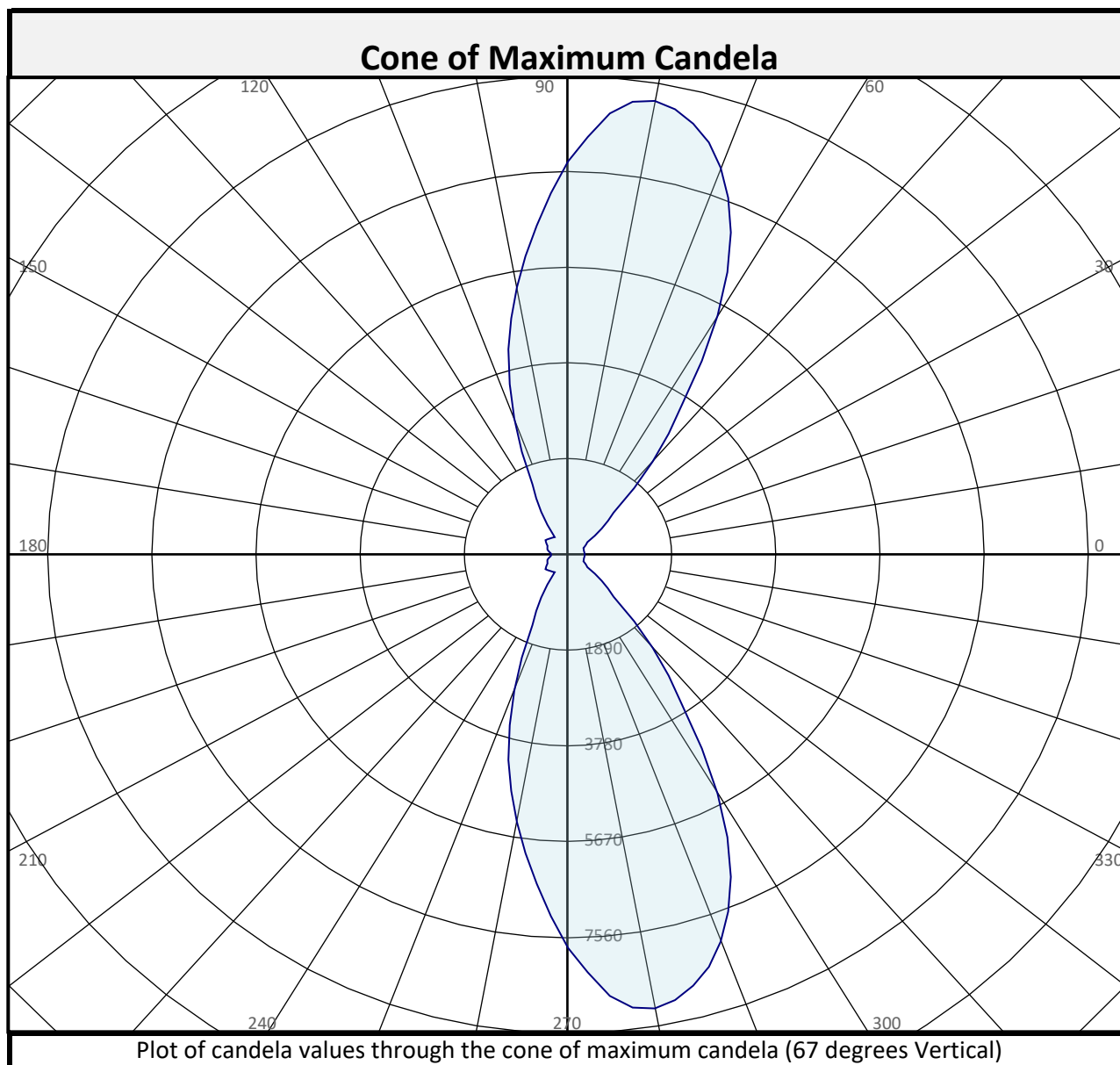


Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	10009.1	66.4%	0.0	0.0%	10009.1	66.4%
House Side	5071.3	33.6%	0.0	0.0%	5071.3	33.6%
Total	15080.4	100.0%	0.0	0.0%	15080.4	100.0%



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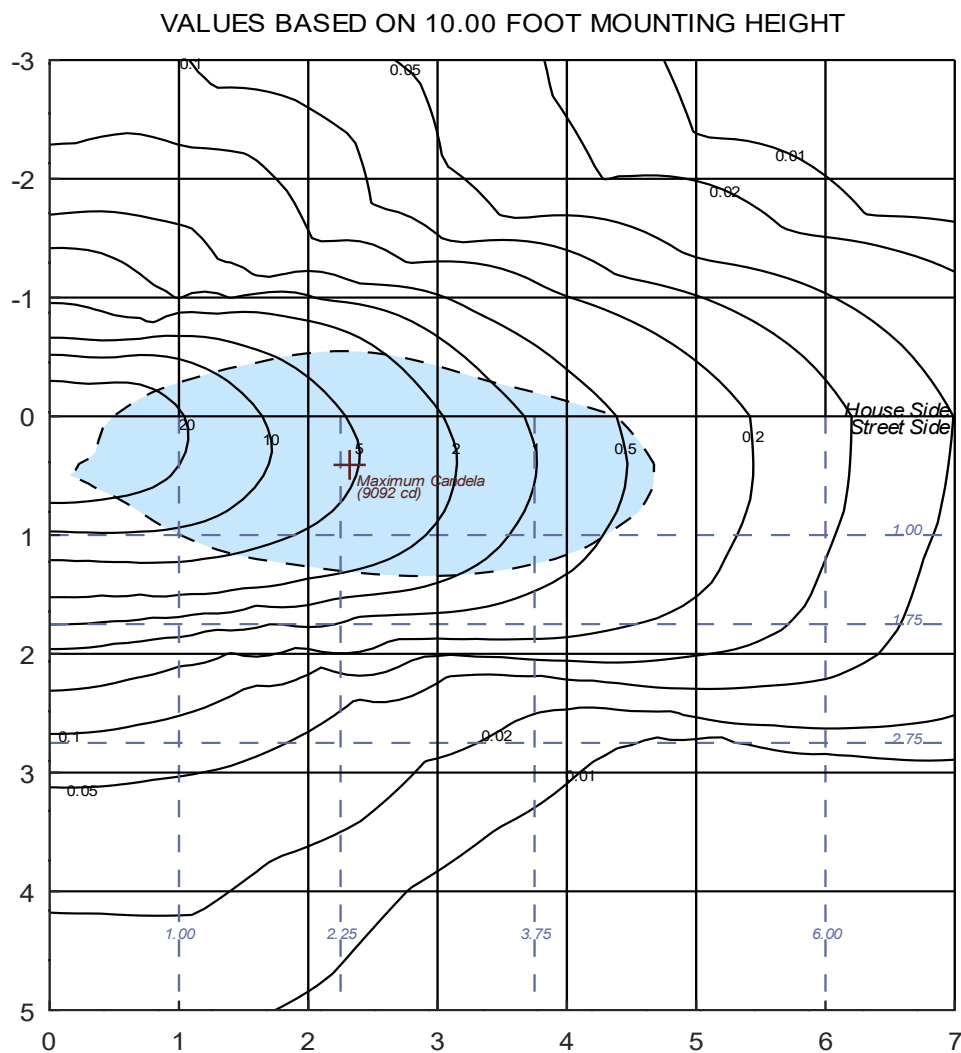


Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	10009.1	66.4%	0.0	0.0%	10009.1	66.4%
House Side	5071.3	33.6%	0.0	0.0%	5071.3	33.6%
Total	15080.4	100.0%	0.0	0.0%	15080.4	100.0%



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Iso-Illuminance Plot



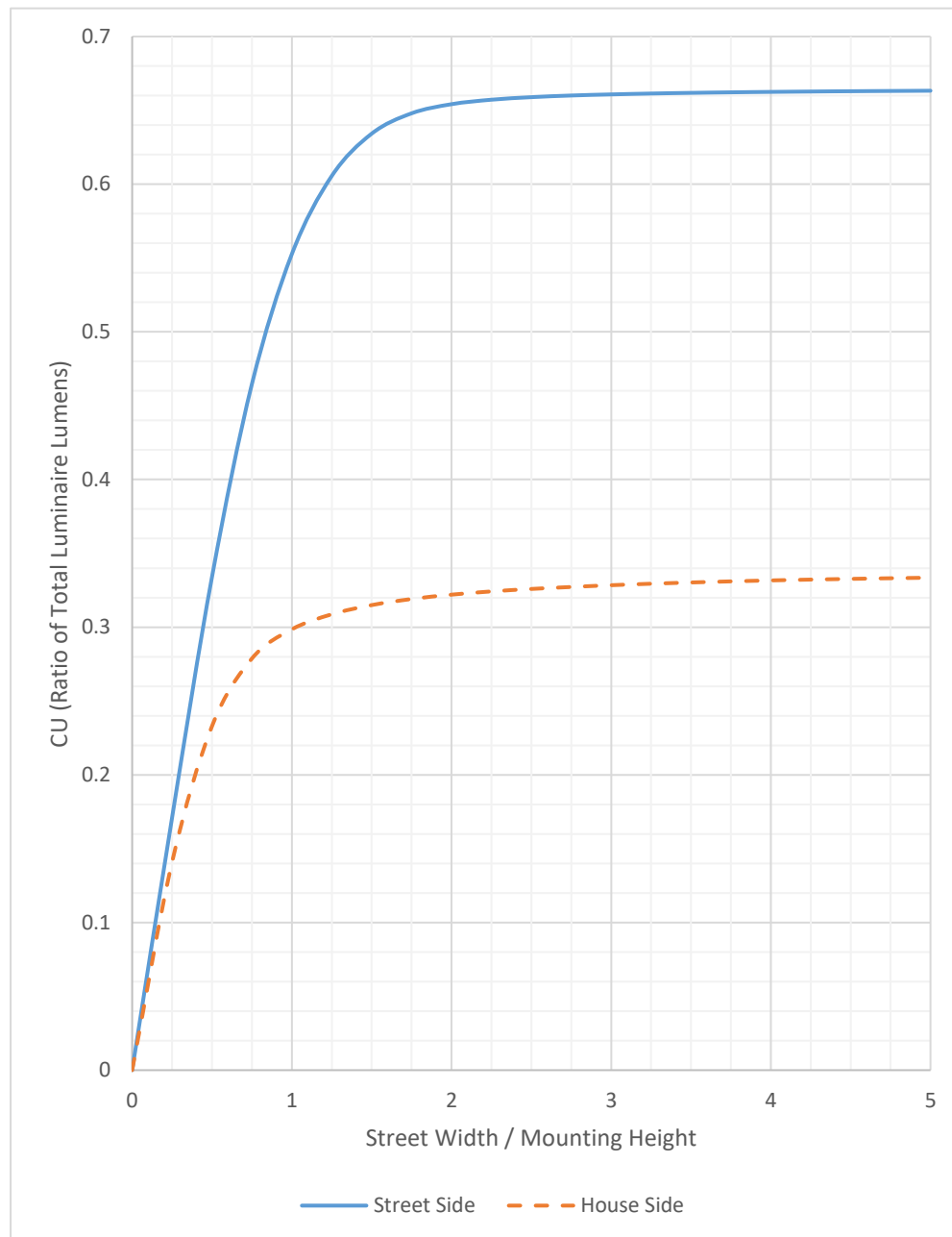
The isofootcandle values shown in the plot above are based on a mounting height of $h = 10.0$ feet. Grid values show multiples of mounting height. The isoilluminance contour lines are expressed in units of footcandles. The values expressed are based on the direct light from a single unit without the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



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Coefficients of Utilization Plot

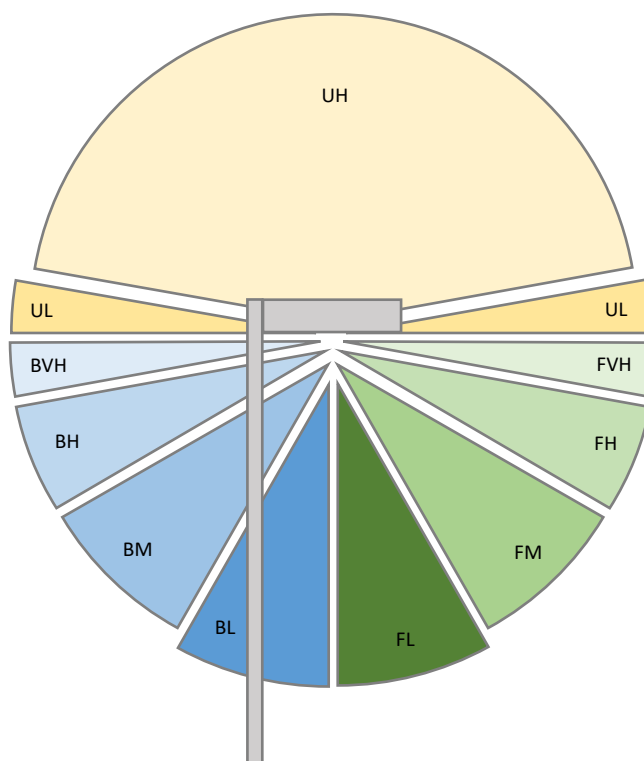




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LCS Tables and Bug Classification



Back Light

BL - Back Low (0°-30°)	1155.0 Lm
BM - Back Mid (30°-60°)	2446.8 Lm
BH - Back High (60°-80°)	1381.8 Lm
BVH - Back Very High (80°-90°)	87.7 Lm

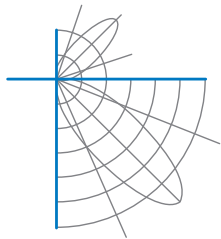
Uplight

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

Forward Light

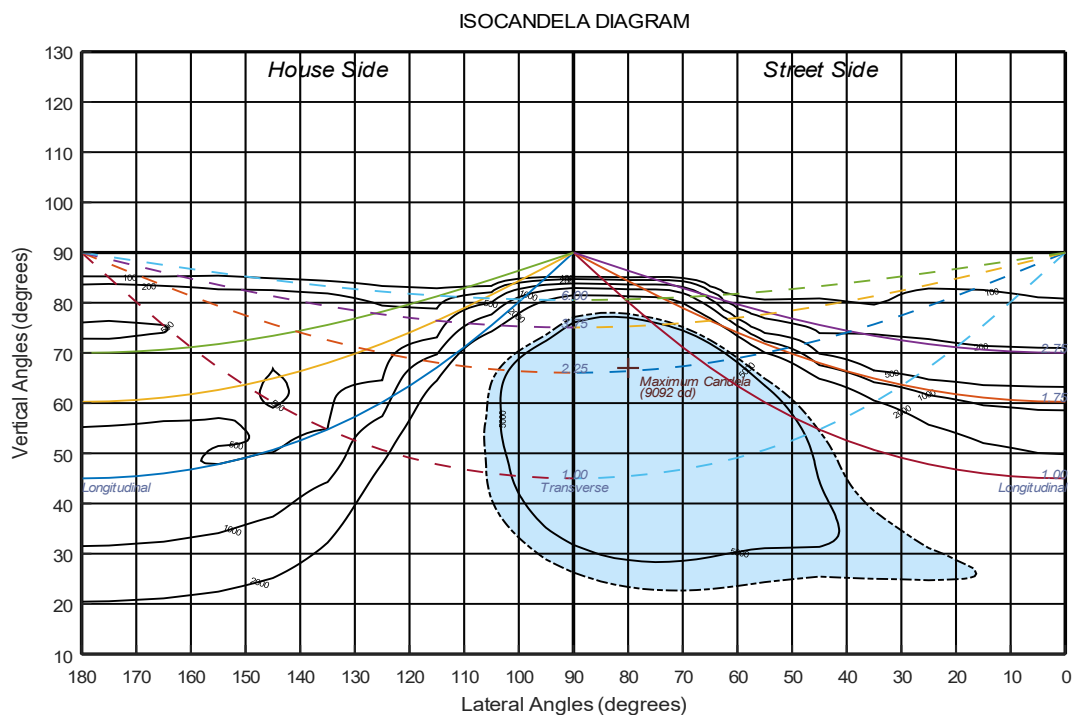
FL - Forward Low (0°-30°)	1806.0 Lm
FM - Forward Mid (30°-60°)	5342.9 Lm
FH - Forward High (60°-80°)	2757.5 Lm
FVH - Forward Very High (80°-90°)	102.7 Lm


BUG Ratings: B3 - U0 - G3



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Iso-Candela Plot



 Half-max Candela Contour Line



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Luminous Intensity (Candela) Table

		Lateral (C-Plane) Angles														
		0	5	15	25	35	45	55	57.5	60	62.5	65	67.5	70	72.5	75
Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	0	3481	3481	3481	3481	3481	3481	3481	3481	3481	3481	3481	3481	3481	3481	3481
	2.5	3632	3632	3631	3620	3606	3592	3572	3570	3562	3555	3551	3545	3538	3533	3527
	5	3754	3754	3752	3738	3720	3693	3659	3648	3637	3628	3616	3606	3594	3583	3572
	7.5	3821	3820	3823	3813	3799	3778	3747	3737	3723	3711	3694	3680	3662	3642	3626
	10	3866	3869	3872	3863	3856	3847	3831	3824	3813	3800	3785	3771	3748	3726	3703
	12.5	3924	3924	3927	3923	3921	3923	3927	3924	3919	3908	3899	3887	3866	3843	3816
	15	3987	3990	3989	3983	3999	4017	4043	4046	4045	4043	4039	4029	4014	3995	3967
	17.5	4075	4073	4070	4069	4087	4118	4169	4176	4183	4188	4191	4191	4181	4163	4143
	20	4248	4245	4217	4188	4189	4236	4299	4315	4330	4341	4352	4356	4354	4346	4327
	22.5	4433	4435	4428	4389	4335	4362	4438	4457	4480	4499	4518	4528	4535	4532	4523
	25	4490	4492	4538	4561	4546	4516	4588	4612	4634	4662	4692	4709	4720	4731	4725
	27.5	4417	4428	4516	4633	4724	4704	4745	4772	4800	4832	4866	4895	4914	4929	4932
	30	4280	4295	4409	4594	4817	4910	4918	4943	4976	5010	5050	5083	5114	5128	5138
	32.5	4104	4120	4263	4477	4809	5067	5108	5123	5154	5185	5227	5263	5302	5325	5332
	35	3890	3911	4067	4325	4728	5153	5303	5313	5338	5369	5406	5440	5481	5507	5525
	37.5	3622	3648	3845	4141	4605	5166	5479	5500	5524	5555	5590	5626	5661	5693	5711
	40	3298	3331	3568	3921	4449	5124	5617	5666	5707	5739	5778	5817	5852	5883	5906
	42.5	2920	2963	3254	3688	4273	5055	5716	5804	5871	5914	5964	6004	6042	6076	6099
	45	2530	2564	2891	3441	4100	4985	5798	5927	6027	6094	6153	6204	6249	6278	6302
	47.5	2249	2277	2538	3160	3913	4928	5891	6058	6187	6281	6358	6416	6458	6488	6504
	50	1979	2007	2246	2843	3703	4849	5988	6194	6359	6483	6581	6655	6700	6736	6745
	52.5	1703	1725	1941	2493	3443	4709	6066	6313	6520	6680	6808	6914	6983	7023	7044
	55	1404	1422	1600	2113	3119	4484	6054	6365	6619	6818	6989	7132	7232	7304	7336
	57.5	1107	1117	1250	1689	2695	4161	5915	6293	6617	6895	7122	7323	7476	7584	7662
	60	847	854	948	1259	2131	3698	5671	6135	6556	6927	7243	7513	7741	7915	8037
	62.5	572	577	623	837	1451	2950	5248	5835	6380	6884	7316	7689	8003	8264	8456
	65	379	376	377	463	788	1936	4503	5284	6009	6675	7261	7750	8168	8508	8764
	67.5	286	286	285	294	373	1018	3370	4300	5261	6141	6909	7549	8081	8498	8782
	70	221	222	227	242	250	475	2032	2914	3993	5070	6039	6857	7494	7996	8322
	72.5	173	175	182	204	217	248	942	1572	2483	3598	4592	5521	6264	6787	7171
	75	166	167	168	166	183	175	322	556	1164	2089	3065	3888	4649	5213	5601
	77.5	158	160	178	148	139	134	180	214	348	850	1694	2463	3212	3813	4209
	80	113	119	149	140	94	113	114	123	144	230	694	1268	1968	2472	2764
	82.5	67	70	101	111	61	66	61	64	69	83	164	433	758	1012	1093
	85	28	29	37	40	26	25	23	24	24	26	32	60	91	117	117
	87.5	6	6	6	5	5	7	9	10	11	11	12	13	14	14	15
	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



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Luminous Intensity (Candela) Table

		Lateral (C-Plane) Angles														
		77.5	80	82.5	85	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	3481	3481	3481	3481	3481	3481	3481	3481	3481	3481	3481	3481	3481	3481	3481
	2.5	3522	3512	3504	3501	3489	3468	3435	3403	3374	3348	3324	3310	3300	3294	3291
	5	3561	3544	3533	3522	3494	3456	3394	3328	3268	3210	3160	3125	3103	3090	3088
	7.5	3608	3589	3571	3552	3509	3454	3357	3253	3153	3068	2997	2945	2913	2893	2889
	10	3679	3654	3632	3606	3543	3474	3332	3183	3048	2934	2849	2788	2749	2724	2719
	12.5	3788	3758	3728	3698	3614	3528	3328	3129	2949	2813	2712	2639	2591	2561	2556
	15	3936	3902	3865	3830	3729	3618	3360	3097	2874	2704	2578	2487	2427	2392	2386
	17.5	4112	4075	4033	3993	3877	3743	3421	3095	2821	2603	2444	2331	2255	2217	2210
	20	4304	4269	4225	4177	4048	3895	3512	3122	2787	2509	2305	2167	2080	2038	2031
	22.5	4505	4474	4431	4377	4240	4066	3625	3168	2766	2418	2162	1995	1896	1851	1845
	25	4713	4684	4645	4592	4444	4247	3756	3234	2748	2322	2009	1814	1703	1652	1645
	27.5	4920	4894	4859	4806	4653	4442	3896	3310	2734	2222	1846	1619	1486	1422	1414
	30	5129	5104	5074	5019	4860	4634	4043	3390	2712	2111	1664	1395	1239	1167	1157
	32.5	5331	5310	5275	5224	5060	4818	4186	3463	2688	1982	1453	1153	988	915	903
	35	5529	5502	5470	5423	5257	4990	4316	3528	2656	1824	1224	916	775	728	722
	37.5	5719	5696	5659	5614	5438	5150	4432	3573	2609	1639	989	728	651	625	621
	40	5910	5888	5847	5795	5605	5303	4518	3595	2530	1425	776	618	580	570	569
	42.5	6101	6083	6043	5987	5773	5452	4591	3586	2411	1179	626	557	549	543	540
	45	6301	6275	6234	6168	5939	5587	4639	3549	2247	927	550	531	519	509	506
	47.5	6490	6462	6414	6338	6094	5708	4662	3479	2039	701	524	503	501	517	515
	50	6727	6701	6644	6560	6291	5859	4697	3385	1804	563	502	491	533	533	528
	52.5	7029	6987	6913	6802	6490	6005	4740	3277	1550	526	487	515	548	551	544
	55	7343	7302	7217	7093	6717	6160	4760	3083	1253	499	483	514	539	521	510
	57.5	7686	7659	7572	7427	6986	6316	4722	2840	989	473	492	494	467	425	413
	60	8096	8095	8000	7835	7285	6491	4704	2583	780	466	506	467	432	390	377
	62.5	8558	8582	8480	8277	7597	6648	4643	2289	604	464	515	452	418	370	355
	65	8926	8982	8888	8636	7790	6674	4469	1914	483	460	509	435	406	338	325
	67.5	8973	9069	8992	8720	7715	6451	4101	1429	410	453	497	403	383	310	302
	70	8465	8535	8479	8226	7187	5873	3473	949	359	444	467	355	358	326	320
	72.5	7370	7423	7391	7229	6320	4971	2629	567	319	426	411	329	408	474	473
	75	5912	6113	6153	6093	5413	4061	1756	353	283	381	360	381	510	540	530
	77.5	4456	4728	4831	4812	4389	3187	1038	239	237	320	344	380	421	451	439
	80	2863	3010	3140	3147	3061	2220	508	169	189	257	283	285	332	399	396
	82.5	1107	1118	1187	1224	1299	975	164	111	126	176	200	207	250	318	313
	85	113	110	116	122	131	120	42	45	54	75	93	118	112	113	115
	87.5	16	16	17	18	19	19	20	20	20	20	21	24	29	30	30
	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



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Luminous Intensity (Candela) Table

		Lateral (C-Plane) Angles														
	0	5	15	25	35	45	55	57.5	60	62.5	65	67.5	70	72.5	75	
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	0	0	0	0
	92.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	97.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	102.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	107.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	112.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	117.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	122.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	127.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	132.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	137.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	142.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	147.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	152.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	157.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	162.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	167.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	172.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	177.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



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Luminous Intensity (Candela) Table

		Lateral (C-Plane) Angles														
		77.5	80	82.5	85	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	0	0	0	0
	92.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	97.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	102.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	107.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	112.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	117.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	122.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	127.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	132.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	137.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	142.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	147.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	152.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	157.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	162.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	167.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	172.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	177.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



Report of Test

LLIA001821-013A

Additional Pictures of Test Subject



Report of Test

LLIA001821-013A

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.



Report of Test

LLIA001821-013B

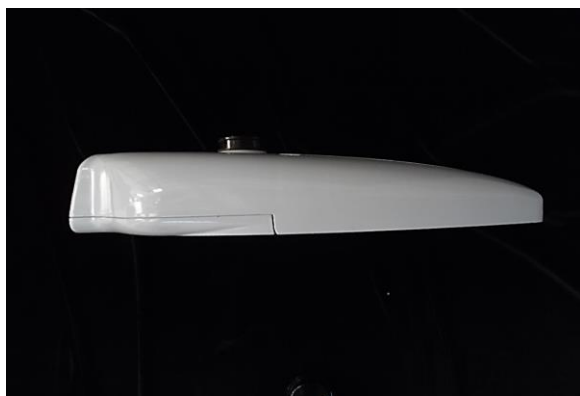
Integrating Sphere Report

Catalog Number: L6-60M-5-X-2ES-J-X-XX-3-XX-X-X-X

Pole/arm mounted, gray painted cast aluminum housing and driver compartment cover, one circuit board, one clear plastic lens with optic below each LED, open bottom.

60 white LEDs

Osram OT180W/UNV/800C/2DIM/P6 LED driver set at 750mA, Littlefuse LSP10277SBX3472 suppressor.



Performance Summary

Voltage	120.0 Vac
Current	0.7820 A
Power	93.24 W
Frequency	59.99 Hz
Power Factor	0.993
Current THD	4.6 %
Total Luminous Flux	15099.2 lm
Efficacy	161.9 lm/W
Chromaticity (x,y)	(0.4385, 0.4092)
(u',v')	(0.2494, 0.5236)
Duv	0.0018
CCT	3015 K
CRI (Ra)	71
R9	-43
TM-30: Rf	72
TM-30: Rg	93
TM-30: Rcs,h1	-17

Prepared For:

LED Roadway Lighting

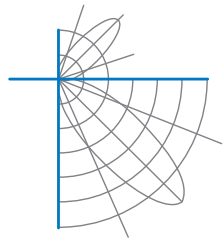
84 Chain Lake Drive

Suite 403

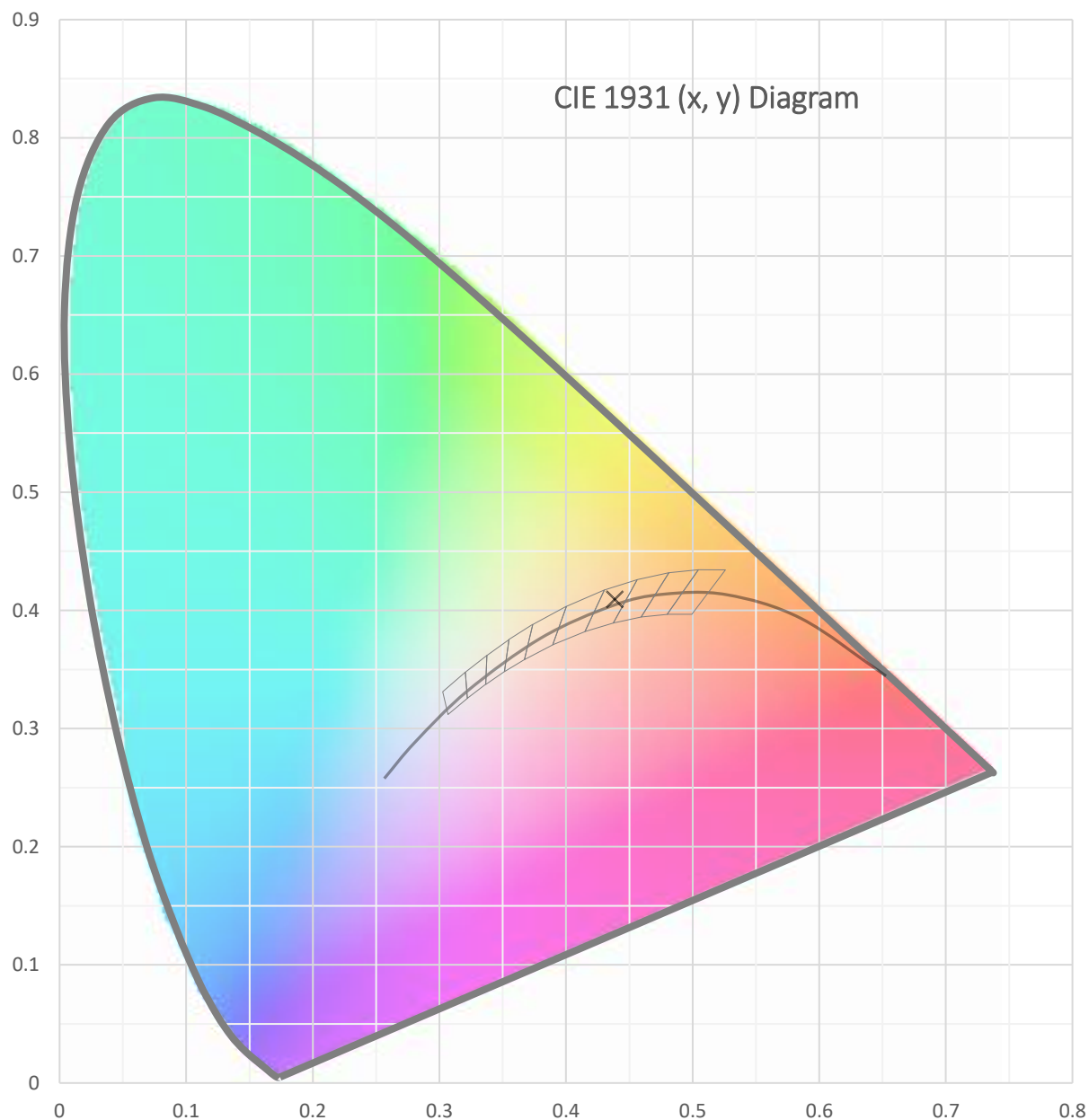
Halifax, Nova Scotia B3S 1A2, Canada

Test date: 08/01/2022

Report date: 08/02/2022

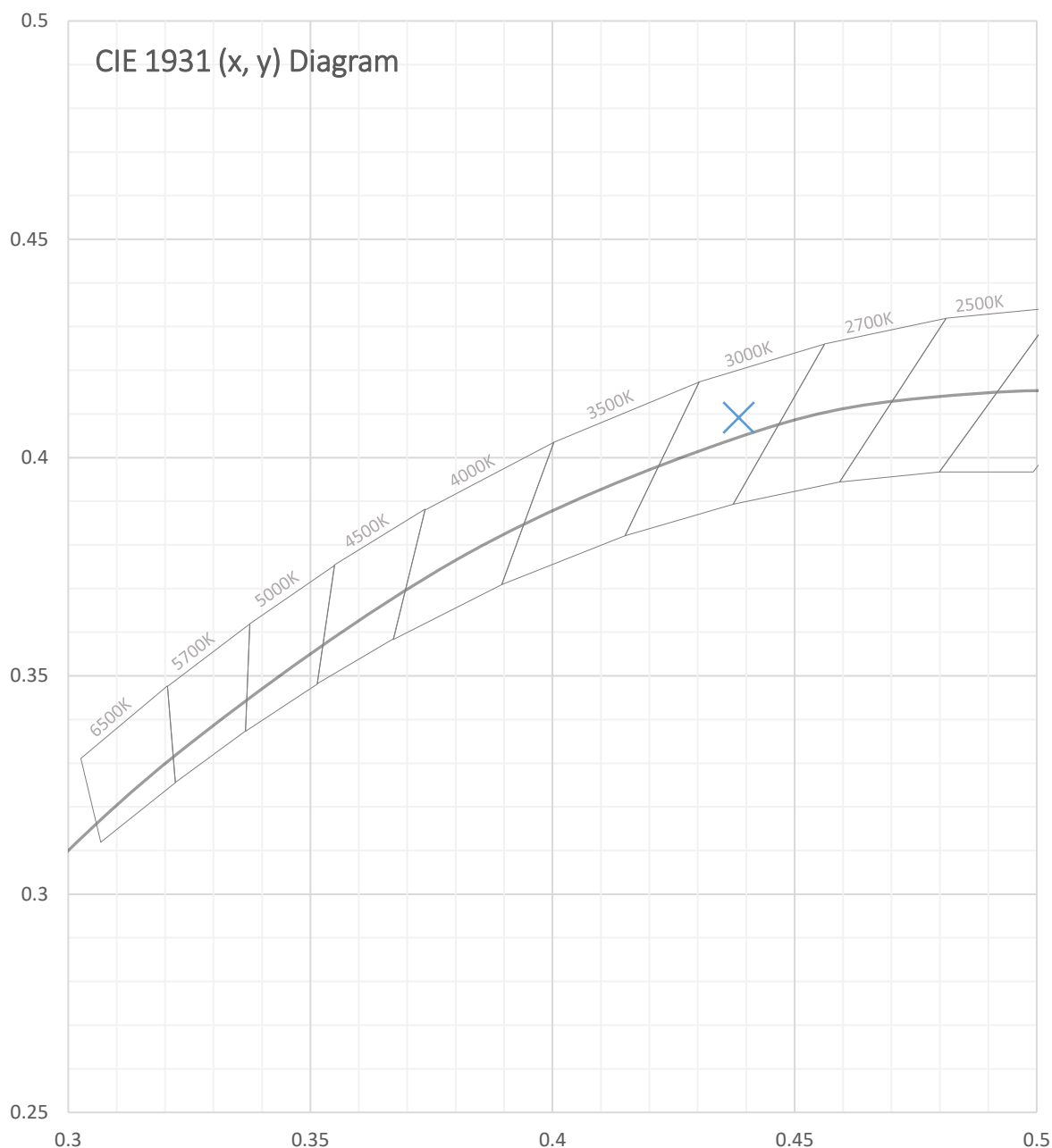


Test Report Number: LLIA001821-013B





Test Report Number: LLIA001821-013B





Test Report Number: LLIA001821-013B

Total Radiant Flux	42.33 W
Total Luminous Flux	15099.2 Lm
Chromaticity CIE 1931 (x, y)	(0.4385, 0.4092)
Chromaticity CIE 1976 (u', v')	(0.2494, 0.5236)
Correlated Color Temperature (CCT)	3015 K
Color Rendering Index (Ra)	71
R1	66
R2	81
R3	95
R4	67
R5	66
R6	75
R7	76
R8	40
R9	-43
R10	59
R11	63
R12	53
R13	69
R14	97
TM-30: Rf	72
TM-30: Rg	93
TM-30: Rcs,h1	-17
Distance from Planckian Locus (Duv)	0.0018
Scotopic/Photopic Ratio $\frac{V_{\lambda}}{V_{\lambda}^{\text{scot}}}$	1.212

Electrical Data

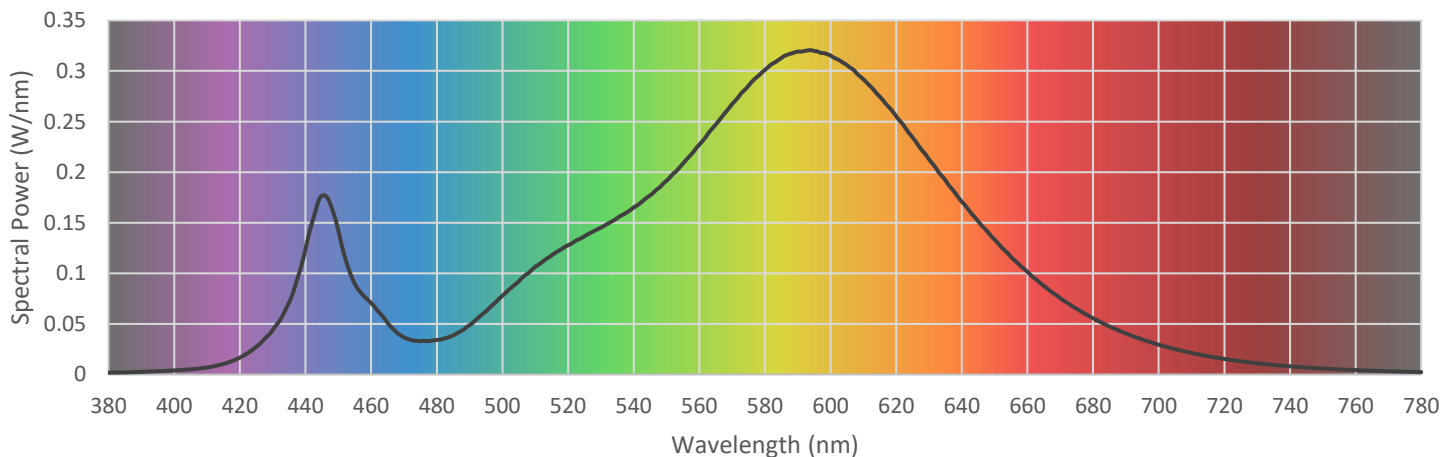
Voltage	120.0 Vac
Current	0.7820 A
Power	93.24 W
Frequency	59.99 Hz
Power Factor	0.993
Current THD	4.6 %



Test Report Number: LLIA001821-013B

Summary Spectral Power Distribution (wavelength - nm, spectral power - W/nm)

380	0.001806	480	0.034097	580	0.301014	680	0.055541
385	0.002027	485	0.038573	585	0.312748	685	0.047465
390	0.002517	490	0.048738	590	0.319176	690	0.040591
395	0.003258	495	0.062439	595	0.319676	695	0.034498
400	0.004001	500	0.077797	600	0.315232	700	0.029434
405	0.005082	505	0.092024	605	0.305778	705	0.025019
410	0.006895	510	0.106370	610	0.291814	710	0.021291
415	0.010398	515	0.117752	615	0.274587	715	0.018066
420	0.016726	520	0.127715	620	0.255221	720	0.015340
425	0.027415	525	0.136594	625	0.234287	725	0.012998
430	0.043931	530	0.145165	630	0.212650	730	0.011116
435	0.071214	535	0.154591	635	0.191910	735	0.009451
440	0.124054	540	0.165052	640	0.170745	740	0.008026
445	0.176669	545	0.177040	645	0.151319	745	0.006888
450	0.142239	550	0.191458	650	0.133232	750	0.005872
455	0.089659	555	0.208368	655	0.116114	755	0.005019
460	0.070603	560	0.227169	660	0.101457	760	0.004356
465	0.050908	565	0.246958	665	0.087469	765	0.003700
470	0.036743	570	0.267207	670	0.075426	770	0.003174
475	0.032899	575	0.285416	675	0.064855	775	0.002745
						780	0.002375





Test Report Number: LLIA001821-013B

IES TM-30 Details

Source: LLIA001821-013B

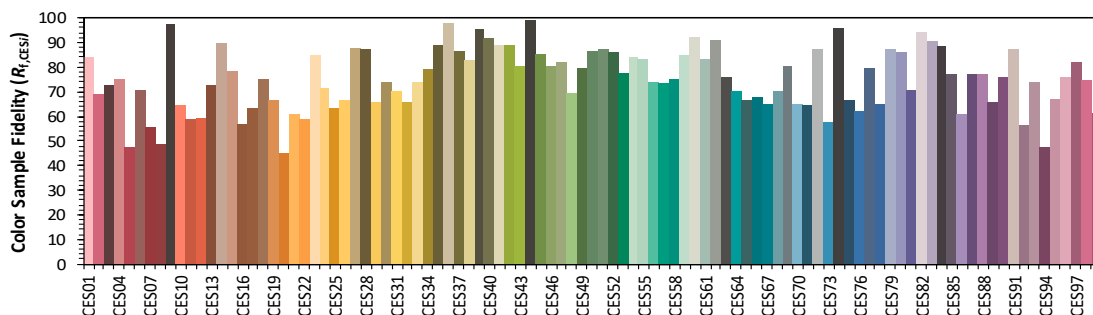
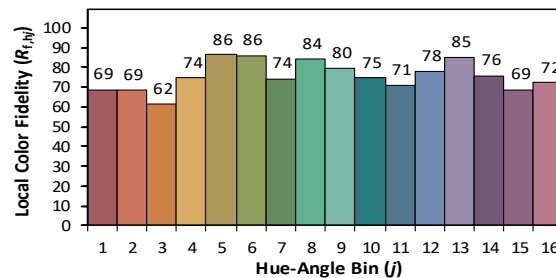
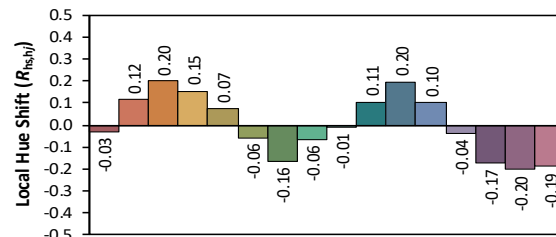
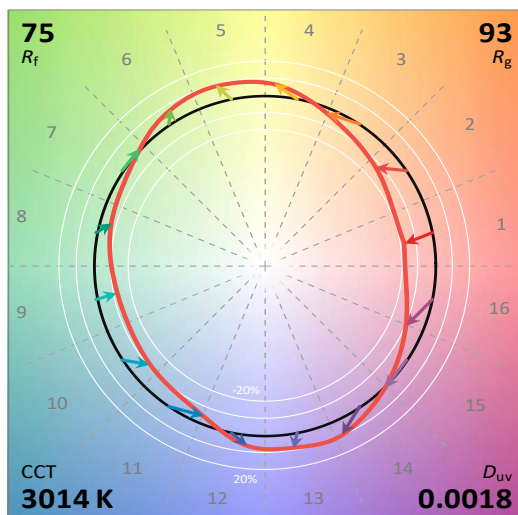
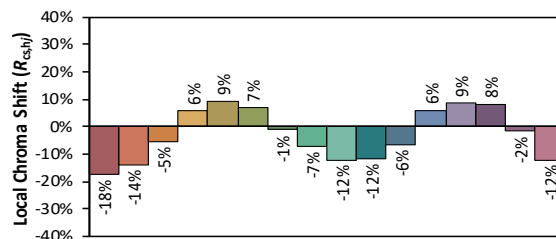
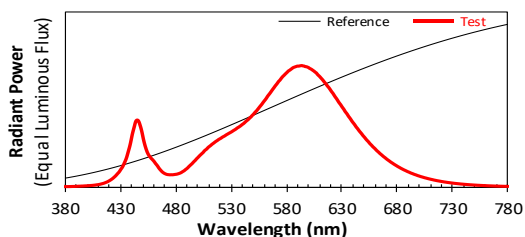
Manufacturer:

LED Roadway Lighting

Date: 8/2/2022

Model:

L6-60M-5-X-2ES-J-X-XX-3-XX-X-X-X



Notes:

x 0.4385
y 0.4091
u' 0.2494
v' 0.5236

CIE 13.3-1995
(CRI)
R_a 71
R_g -43

Test Report Number: LLIA001821-013B

Test Equipment Configuration: LightLab International Allentown 2m Integrating Sphere
Measurements acquired using a Labsphere CDS 2600 spectroradiometer
Testing was performed using 4π geometry

Test Temperature: 25.6 °C

Test Procedure: Tested in accordance with the applicable sections of:
LM-79-19, LM-78-20, LM-58-20, ANSI_ANSI C78.377-2017, TM-30-20

Significance: 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.

Notes: The measurements and other derived quantities contained in this report are based on the absolute data as measured.

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

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Sphere Report Template V2-18



Report of Test

LLIA001821-013C

Electrical Test Report

Catalog Number: L6-60M-5-X-2ES-J-X-XX-3-XX-X-X-X

Pole/arm mounted, gray painted cast aluminum housing and driver compartment cover, one circuit board, one clear plastic lens with optic below each LED, open bottom.

60 white LEDs

Osram OT180W/UNV/800C/2DIM/P6 LED driver set at 750mA, Littlefuse LSP10277SBX3472 suppressor.



Performance Summary

Voltage	277.0 Vac
Current	0.3618 A
Power	92.27 W
Frequency	60.00 Hz
Power Factor	0.921
Current THD	12.0 %
Ambient Temperature:	25.2 °C

Prepared For:

LED Roadway Lighting

84 Chain Lake Drive

Suite 403

Halifax, Nova Scotia B3S 1A2, Canada

Tested in accordance with the applicable sections of IES LM-79-19. 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. 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. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Test date: 07/29/2022

Report date: 08/02/2022

Electrical Report Template V1-4