



Report of Test

LLIA001821-011A

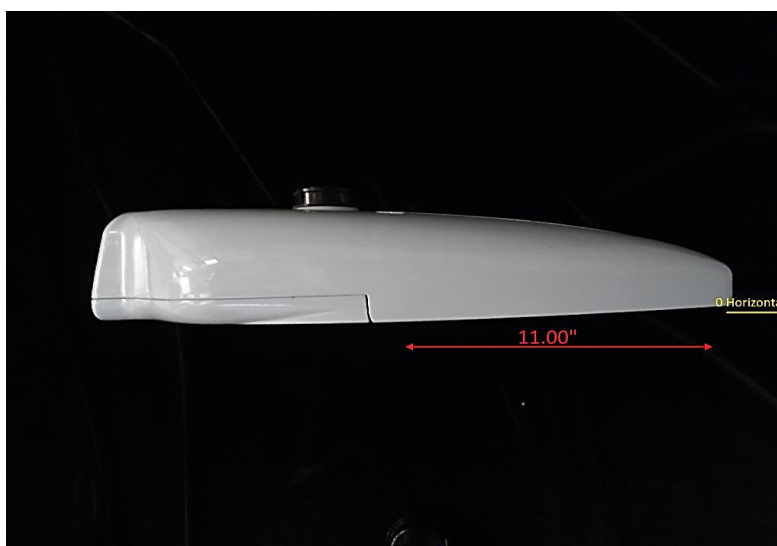
Roadway/Area Light Distribution Photometry Test Report

Catalog Number: L6-60M-5-X-2ES-3-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/1250C/2DIM/P6 LED driver set at 1050mA, 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	20353.8 Lumens
Input Current	1.112 A	Total Efficacy	153.4 Lm/W
Input Power	132.7 W		
Frequency	60.00 Hz	Roadway Throw	Medium
Power Factor	0.995	Roadway Type	Type II
Current THD	4.2 %	IES BUG Rating	B3 - U0 - G3

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

Test date: 08/02/2022

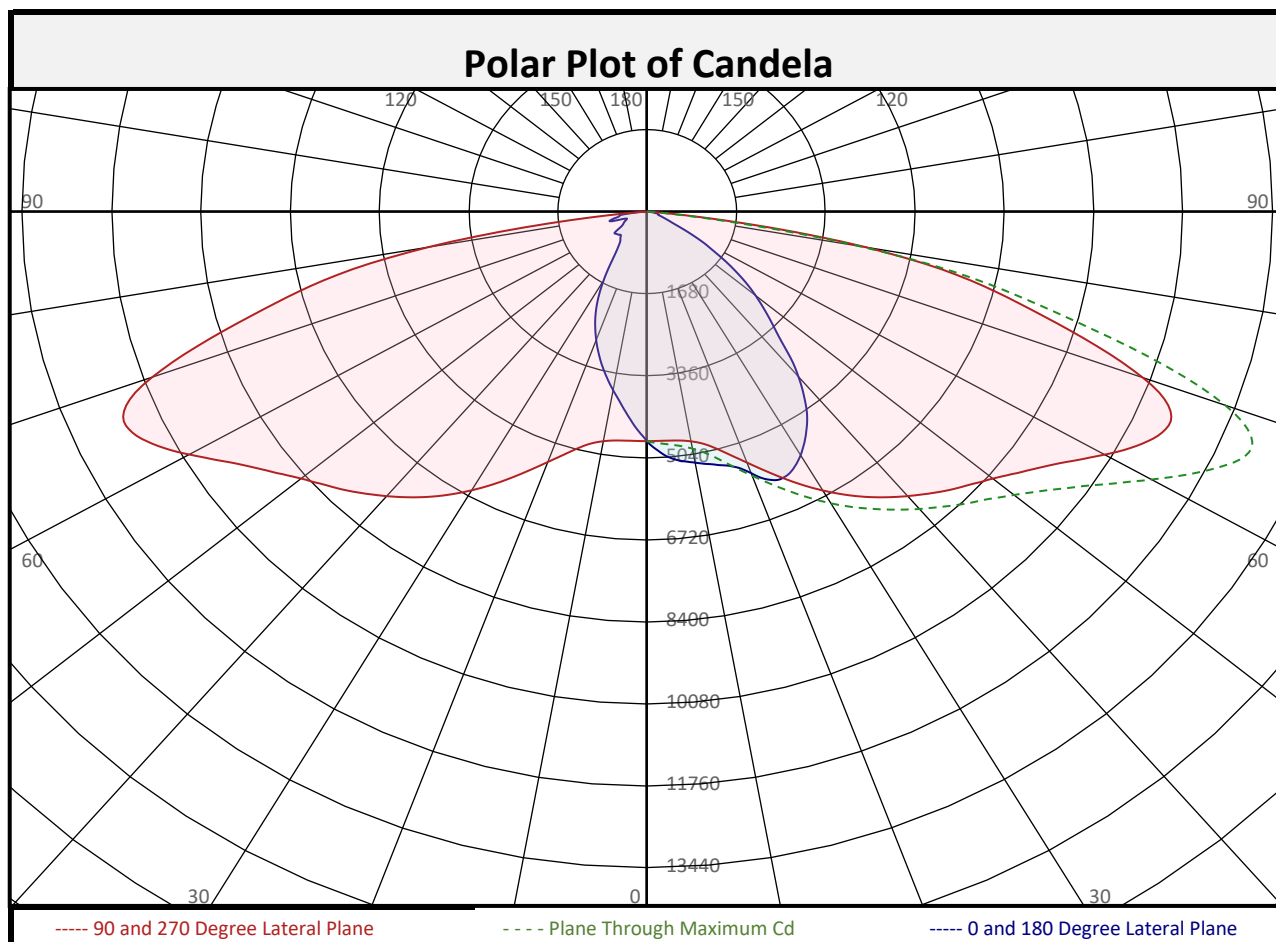
Report date: 08/03/2022

Signed: _____

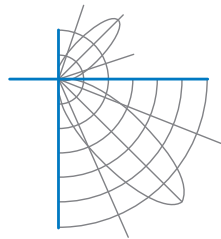


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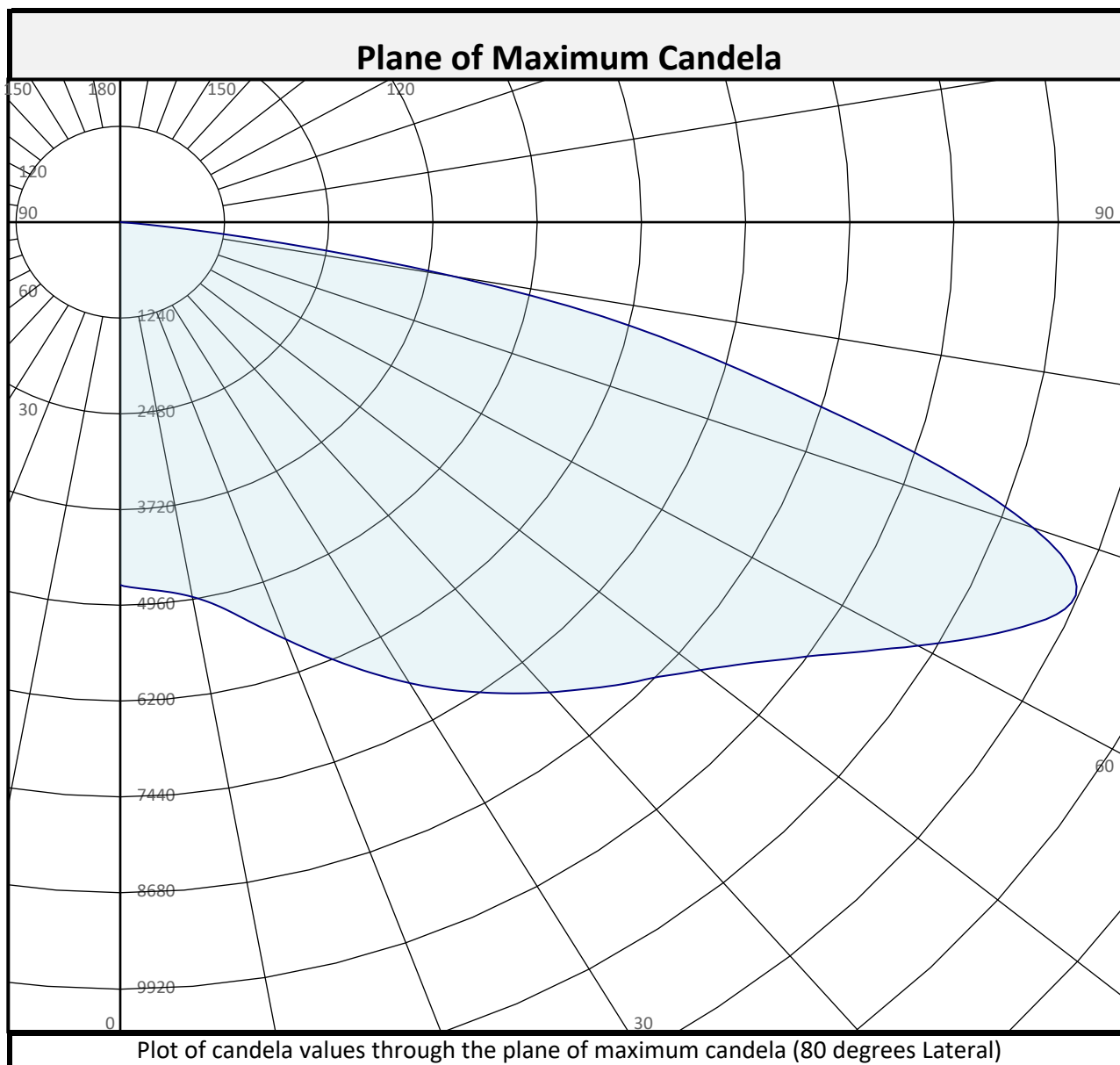


Zonal Flux Summary										
Zone (Deg Vert)	Flux (Lumens)	Percent of Total		Zone (Deg Vert)	Flux (Lumens)	Percent of Total		Zone (Deg Vert)	Flux (Lumens)	Percent of Total
0-10	442.8	2.2%		90-100	0.0	0.0%		0-20	1752	8.6%
10-20	1309	6.4%		100-110	0.0	0.0%		0-30	3994	19.6%
20-30	2242	11.0%		110-120	0.0	0.0%		0-40	7047	34.6%
30-40	3053	15.0%		120-130	0.0	0.0%		0-60	14513	71.3%
40-50	3579	17.6%		130-140	0.0	0.0%		0-80	20087	98.7%
50-60	3887	19.1%		140-150	0.0	0.0%		10-90	19911	97.8%
60-70	3609	17.7%		150-160	0.0	0.0%		20-50	8874	43.6%
70-80	1965	9.7%		160-170	0.0	0.0%		40-90	13307	65.4%
80-90	266.6	1.3%		170-180	0.0	0.0%		60-90	5841	28.7%
0-90	20354	100.0%		90-180	0.0	0.0%		0-180	20354	100.0%



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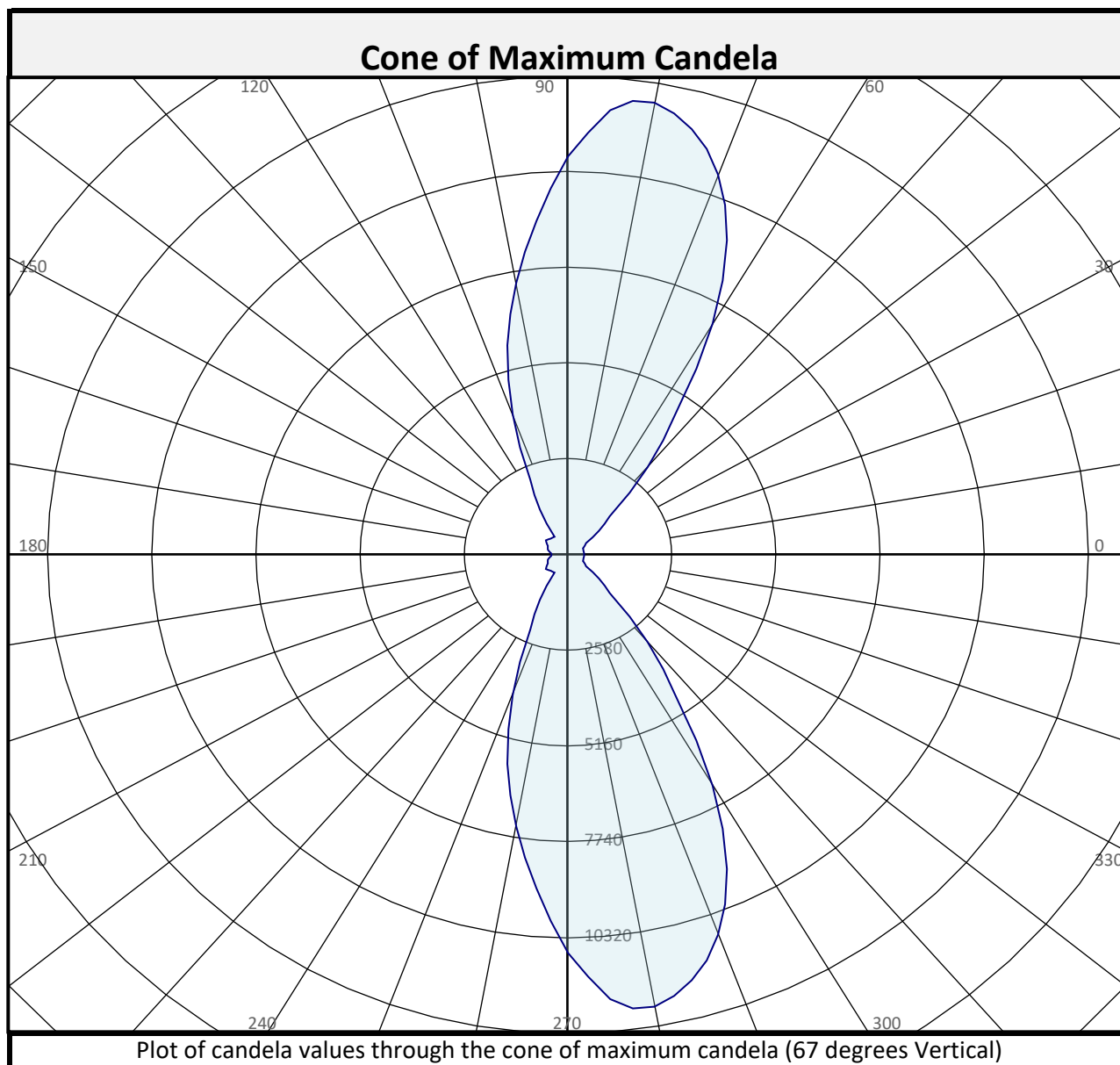


Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	13402.6	65.8%	0.0	0.0%	13402.6	65.8%
House Side	6951.2	34.2%	0.0	0.0%	6951.2	34.2%
Total	20353.8	100.0%	0.0	0.0%	20353.8	100.0%



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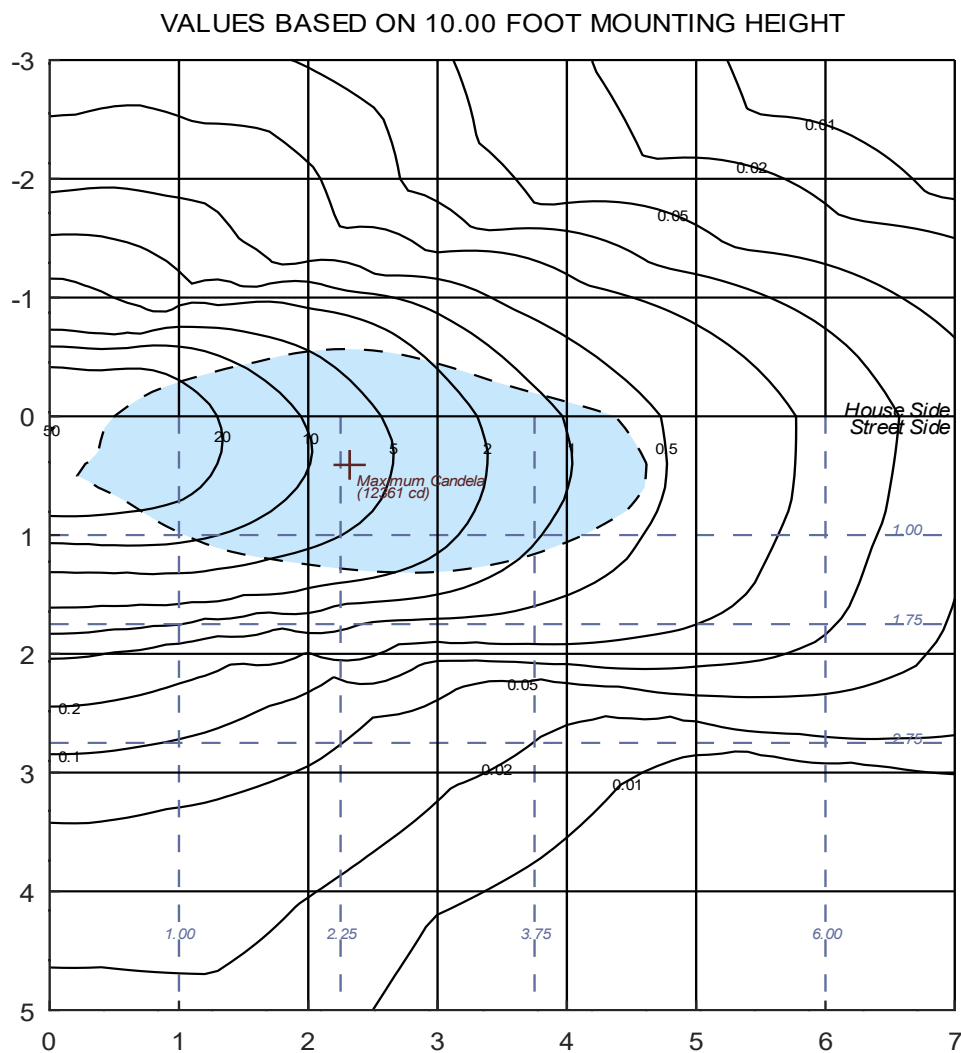


Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	13402.6	65.8%	0.0	0.0%	13402.6	65.8%
House Side	6951.2	34.2%	0.0	0.0%	6951.2	34.2%
Total	20353.8	100.0%	0.0	0.0%	20353.8	100.0%



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Iso-Illuminance Plot



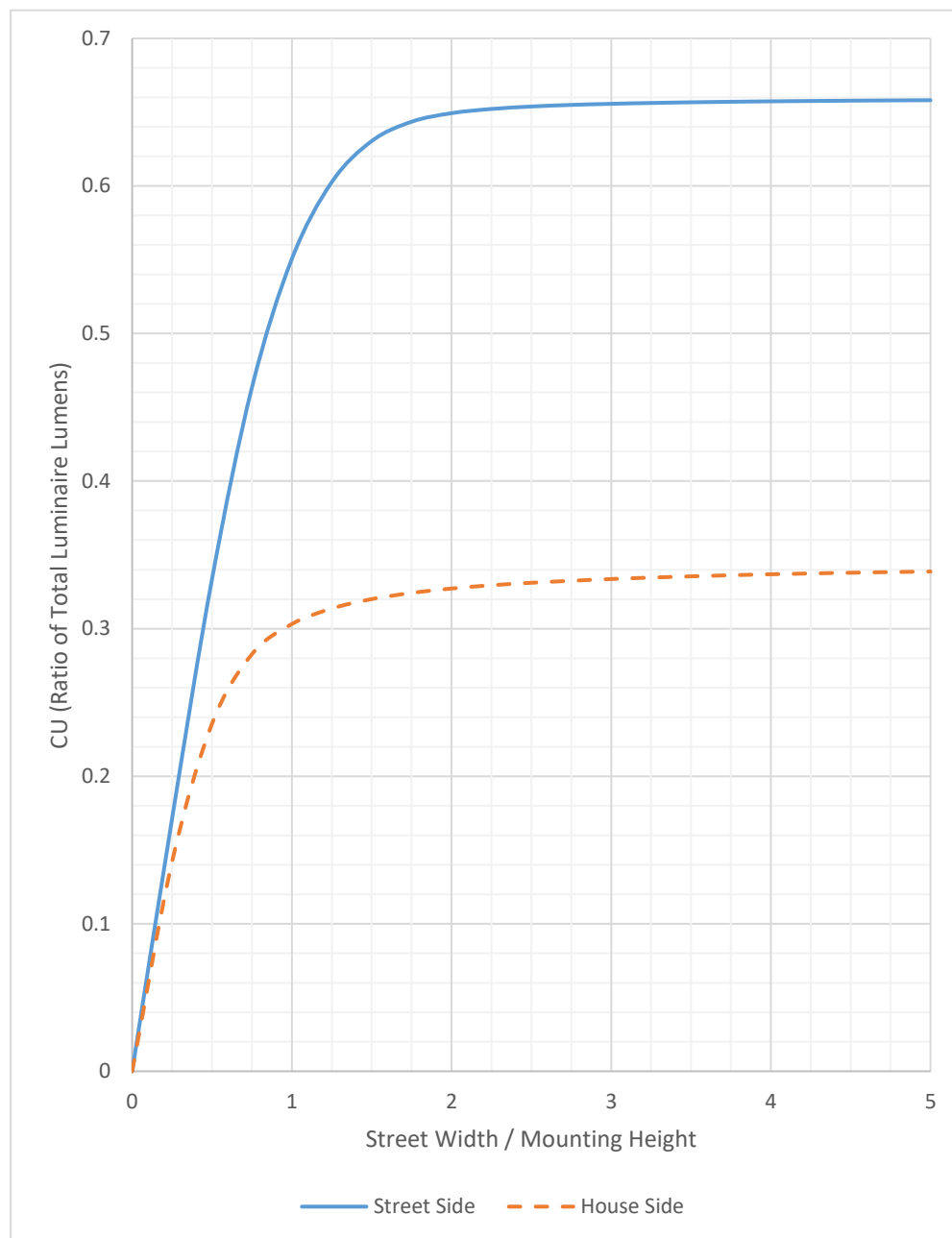
The isofootcandle values shown in the plot above are based on a mounting height of $h = 10.0$ feet. Grid values show multiples of mounting height. The isoilluminance contour lines are expressed in units of footcandles. The values expressed are based on the direct light from a single unit without the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



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Coefficients of Utilization Plot

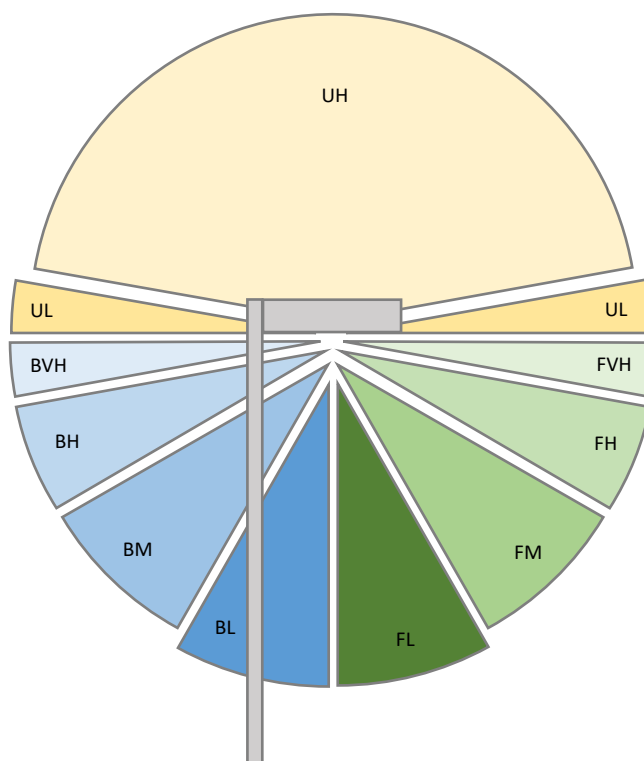




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LCS Tables and Bug Classification



Back Light

BL - Back Low (0°-30°)	1567.1 Lm
BM - Back Mid (30°-60°)	3348.0 Lm
BH - Back High (60°-80°)	1909.2 Lm
BVH - Back Very High (80°-90°)	126.9 Lm

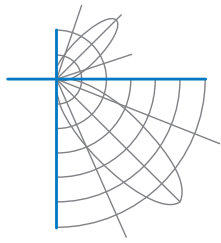
Uplight

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

Forward Light

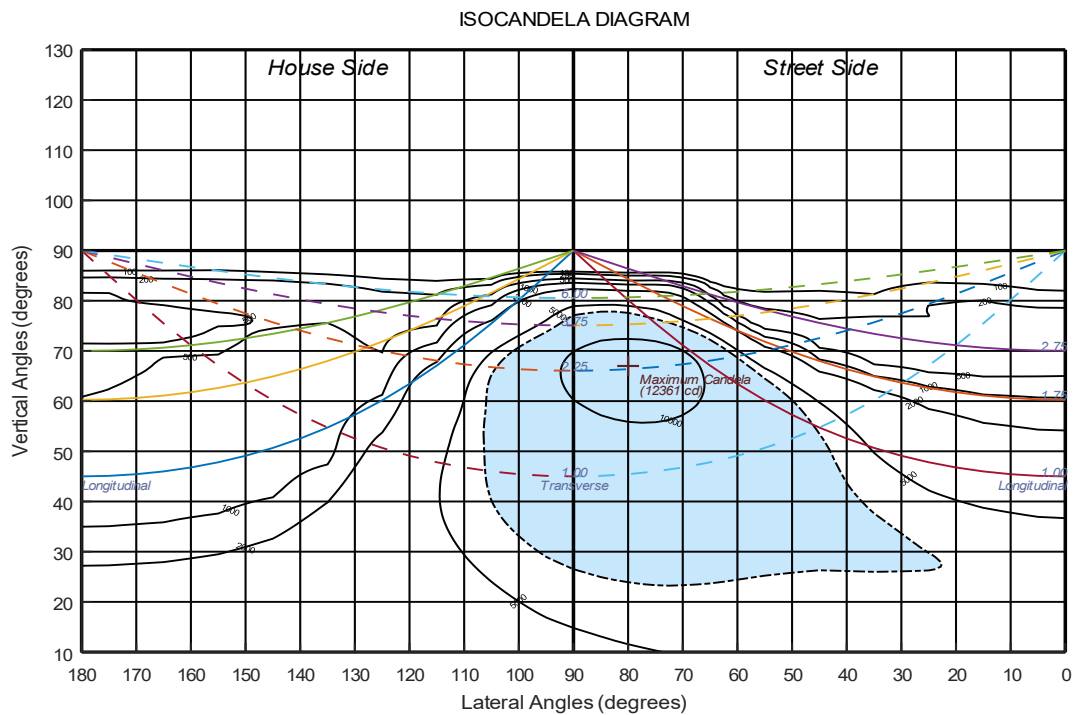
FL - Forward Low (0°-30°)	2426.7 Lm
FM - Forward Mid (30°-60°)	7171.0 Lm
FH - Forward High (60°-80°)	3665.1 Lm
FVH - Forward Very High (80°-90°)	139.7 Lm

BUG Ratings: B3 - U0 - G3



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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	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	4696	4696	4696	4696	4696	4696	4696	4696	4696	4696	4696	4696	4696	4696	4696
	2.5	4899	4902	4899	4881	4864	4842	4818	4811	4805	4796	4786	4779	4771	4764	4754
	5	5058	5061	5056	5039	5010	4976	4930	4916	4903	4891	4874	4861	4847	4832	4818
	7.5	5152	5152	5147	5137	5115	5089	5046	5030	5012	4997	4974	4949	4929	4907	4888
	10	5219	5220	5210	5205	5192	5186	5154	5141	5126	5114	5092	5066	5041	5014	4984
	12.5	5293	5289	5283	5280	5276	5285	5277	5271	5262	5254	5237	5216	5192	5167	5129
	15	5375	5373	5362	5359	5374	5405	5425	5428	5428	5429	5423	5407	5390	5369	5332
	17.5	5480	5478	5459	5464	5488	5539	5602	5614	5622	5631	5635	5630	5621	5605	5570
	20	5693	5684	5644	5616	5622	5686	5780	5802	5823	5841	5852	5858	5857	5848	5823
	22.5	5937	5932	5916	5865	5808	5857	5963	5993	6024	6050	6074	6091	6098	6104	6090
	25	6020	6032	6077	6102	6075	6058	6162	6195	6229	6267	6303	6331	6349	6369	6367
	27.5	5940	5960	6068	6215	6315	6303	6371	6409	6452	6498	6543	6583	6611	6637	6643
	30	5761	5784	5936	6171	6457	6573	6597	6638	6684	6734	6791	6838	6881	6909	6923
	32.5	5520	5554	5730	6025	6457	6781	6847	6876	6918	6975	7032	7084	7137	7171	7193
	35	5238	5268	5472	5821	6358	6905	7108	7131	7163	7215	7269	7324	7380	7429	7450
	37.5	4865	4909	5178	5572	6192	6928	7341	7374	7412	7457	7511	7565	7623	7674	7699
	40	4423	4473	4802	5281	5981	6875	7528	7595	7651	7708	7758	7817	7876	7927	7954
	42.5	3896	3964	4368	4966	5743	6782	7661	7779	7865	7941	8006	8071	8130	8184	8210
	45	3391	3436	3861	4621	5511	6691	7770	7943	8071	8173	8260	8334	8399	8445	8476
	47.5	3010	3052	3394	4231	5252	6599	7886	8111	8284	8418	8527	8609	8672	8717	8746
	50	2648	2685	3003	3798	4964	6483	8000	8275	8494	8674	8816	8924	8998	9048	9073
	52.5	2268	2300	2592	3325	4611	6286	8092	8433	8705	8922	9090	9229	9324	9386	9429
	55	1862	1886	2125	2811	4161	5973	8074	8498	8845	9129	9358	9557	9699	9794	9856
	57.5	1451	1464	1637	2229	3580	5539	7881	8403	8853	9232	9547	9820	10035	10204	10328
	60	1104	1112	1231	1651	2809	4913	7536	8171	8745	9260	9704	10085	10413	10669	10852
	62.5	738	746	803	1083	1887	3889	6937	7755	8499	9185	9780	10293	10741	11118	11388
	65	500	496	490	590	995	2484	5930	6981	7961	8866	9667	10340	10905	11385	11764
	67.5	377	377	377	388	477	1266	4333	5600	6912	8124	9206	10098	10836	11428	11851
	70	292	294	300	320	332	598	2514	3693	5129	6622	7981	9146	10044	10756	11245
	72.5	231	235	241	270	286	325	1136	1914	3079	4533	5937	7211	8244	8969	9520
	75	225	229	231	220	242	232	401	667	1359	2498	3802	4899	5924	6711	7230
	77.5	217	220	245	200	182	180	232	272	401	968	2017	3044	4043	4890	5475
	80	150	158	201	193	124	148	150	165	194	291	809	1567	2477	3200	3641
	82.5	85	90	132	145	79	86	81	86	95	119	214	573	989	1368	1490
	85	34	35	44	48	32	32	32	33	34	37	44	84	140	188	205
	87.5	7	7	6	6	7	9	12	13	14	15	16	17	18	19	20
	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	4696	4696	4696	4696	4696	4696	4696	4696	4696	4696	4696	4696	4696	4696	4696
	2.5	4747	4742	4736	4717	4697	4684	4637	4594	4556	4519	4494	4470	4456	4448	4443
	5	4798	4782	4768	4745	4704	4668	4581	4496	4416	4342	4276	4226	4196	4178	4175
	7.5	4864	4838	4811	4782	4725	4667	4529	4395	4263	4153	4057	3987	3944	3917	3916
	10	4955	4925	4888	4847	4773	4689	4495	4300	4121	3975	3856	3779	3728	3695	3693
	12.5	5091	5055	5013	4962	4861	4752	4488	4225	3991	3815	3677	3582	3519	3479	3474
	15	5290	5247	5198	5142	5013	4871	4523	4179	3883	3665	3500	3385	3306	3258	3254
	17.5	5534	5485	5430	5368	5220	5047	4612	4176	3805	3526	3325	3175	3081	3027	3022
	20	5792	5742	5686	5619	5453	5252	4737	4215	3761	3402	3144	2960	2848	2789	2784
	22.5	6062	6018	5964	5893	5718	5486	4893	4279	3736	3281	2951	2734	2603	2541	2535
	25	6344	6307	6257	6187	6002	5745	5074	4365	3724	3155	2748	2493	2345	2275	2267
	27.5	6630	6599	6553	6488	6295	6019	5279	4474	3709	3022	2531	2231	2054	1972	1961
	30	6915	6889	6850	6782	6583	6291	5492	4589	3685	2878	2289	1935	1723	1627	1615
	32.5	7185	7167	7129	7058	6859	6549	5698	4706	3653	2711	2011	1609	1381	1278	1264
	35	7447	7427	7398	7329	7122	6791	5888	4812	3615	2506	1701	1280	1076	1006	998
	37.5	7704	7689	7654	7584	7368	7010	6045	4893	3564	2258	1381	1009	892	855	850
	40	7964	7948	7907	7840	7603	7218	6172	4931	3478	1977	1083	844	787	771	770
	42.5	8222	8196	8156	8088	7831	7411	6269	4925	3334	1651	862	754	741	733	731
	45	8481	8457	8409	8338	8056	7591	6336	4883	3129	1305	745	715	701	688	686
	47.5	8739	8709	8656	8579	8266	7757	6378	4792	2857	987	703	677	675	703	704
	50	9062	9021	8950	8854	8500	7943	6415	4665	2539	771	672	656	716	727	723
	52.5	9429	9387	9306	9184	8790	8148	6457	4503	2188	704	654	685	742	752	745
	55	9867	9832	9727	9572	9106	8362	6485	4274	1798	671	648	693	734	724	709
	57.5	10385	10364	10252	10068	9497	8617	6472	3945	1420	640	660	669	638	581	563
	60	10955	10966	10858	10650	9948	8888	6457	3613	1120	628	680	629	583	527	509
	62.5	11555	11600	11493	11254	10388	9124	6424	3246	882	622	690	609	564	499	479
	65	12042	12164	12088	11802	10703	9187	6214	2736	690	620	685	585	544	458	440
	67.5	12143	12326	12298	11992	10673	8935	5712	2083	569	608	670	544	517	418	406
	70	11462	11566	11543	11277	9941	8135	4887	1401	493	599	633	482	480	430	421
	72.5	9818	9918	9876	9685	8629	6875	3724	841	435	571	559	442	536	612	610
	75	7652	7955	8056	8020	7258	5523	2477	506	381	517	489	504	681	722	712
	77.5	5843	6243	6427	6421	5965	4384	1483	335	324	435	466	509	573	610	596
	80	3806	4008	4220	4224	4165	3099	760	239	258	353	389	389	452	526	520
	82.5	1523	1532	1645	1713	1857	1442	278	152	175	247	278	283	341	437	431
	85	202	202	217	237	308	262	69	67	78	112	138	166	160	173	170
	87.5	20	21	23	24	25	26	27	27	27	30	33	37	44	47	47
	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

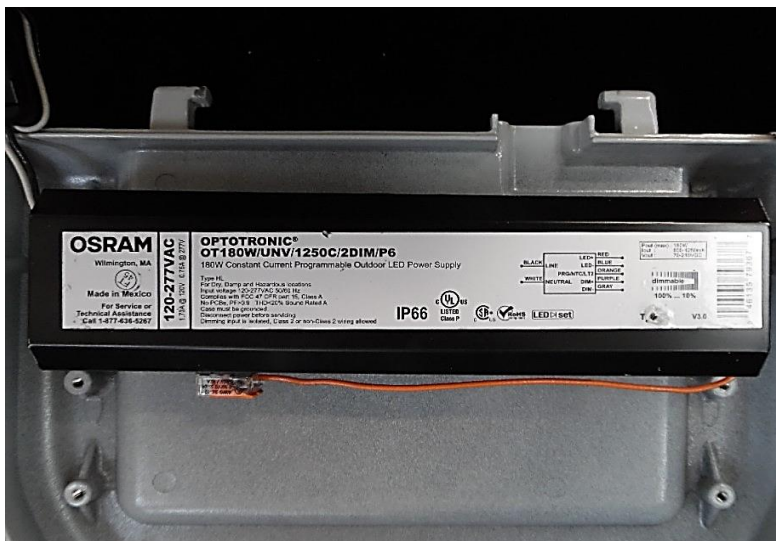
		Lateral (C-Plane) Angles														
		77.5	80	82.5	85	90	95	105	115	125	135	145	155	165	175	180
Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	92.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	97.5	0	0	0	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

LLIA001821-011A

Additional Pictures of Test Subject



Report of Test

LLIA001821-011A

Test Distance 9.5 m
Ambient Temperature 25.5 °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.

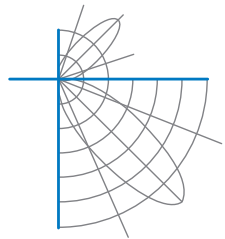
This report is free of erasures and corrections.

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

LLIA001821-011B

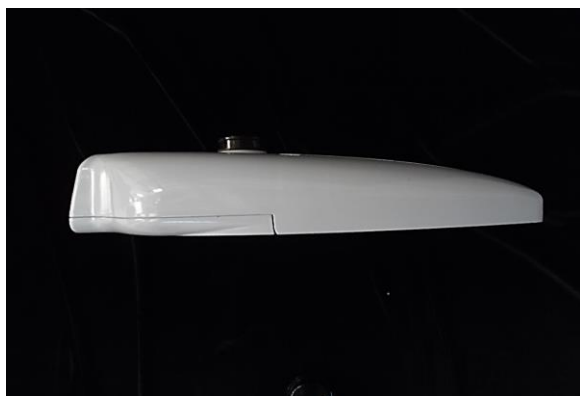
Integrating Sphere Report

Catalog Number: L6-60M-5-X-2ES-3-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/1250C/2DIM/P6 LED driver set at 1050mA, Littlefuse LSP10277SBX3472 suppressor.



Performance Summary

Voltage	120.0 Vac
Current	1.109 A
Power	132.7 W
Frequency	59.99 Hz
Power Factor	0.997
Current THD	4.0 %
Total Luminous Flux	20400.3 lm
Efficacy	153.7 lm/W
Chromaticity (x,y)	(0.4379, 0.4088)
(u',v')	(0.2492, 0.5234)
Duv	0.0017
CCT	3023 K
CRI (Ra)	71
R9	-43
TM-30: Rf	72
TM-30: Rg	93
TM-30: Rcs,h1	-18

Prepared For:

LED Roadway Lighting

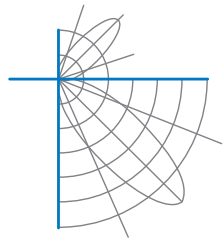
84 Chain Lake Drive

Suite 403

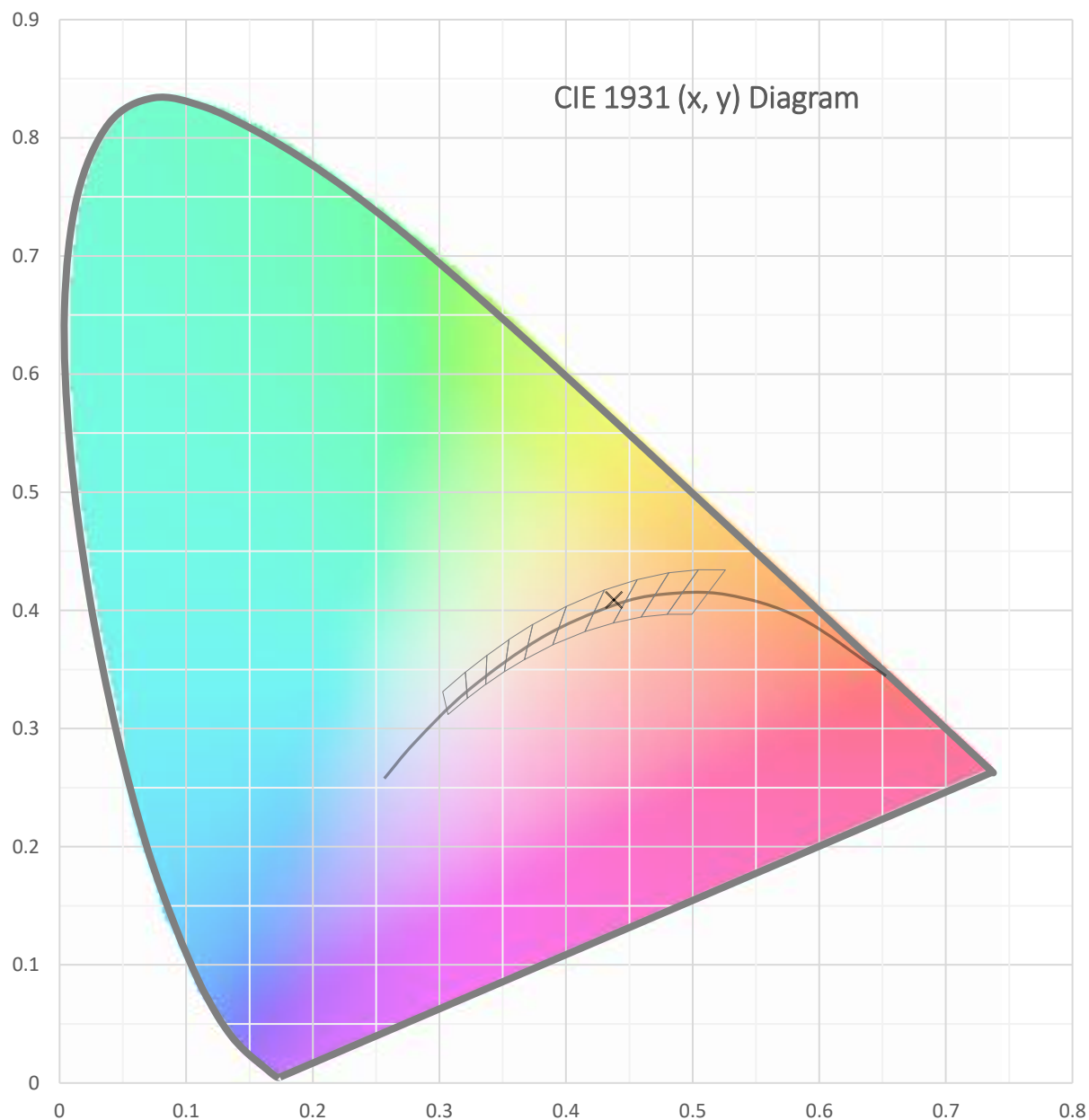
Halifax, Nova Scotia B3S 1A2, Canada

Test date: 08/02/2022

Report date: 08/03/2022

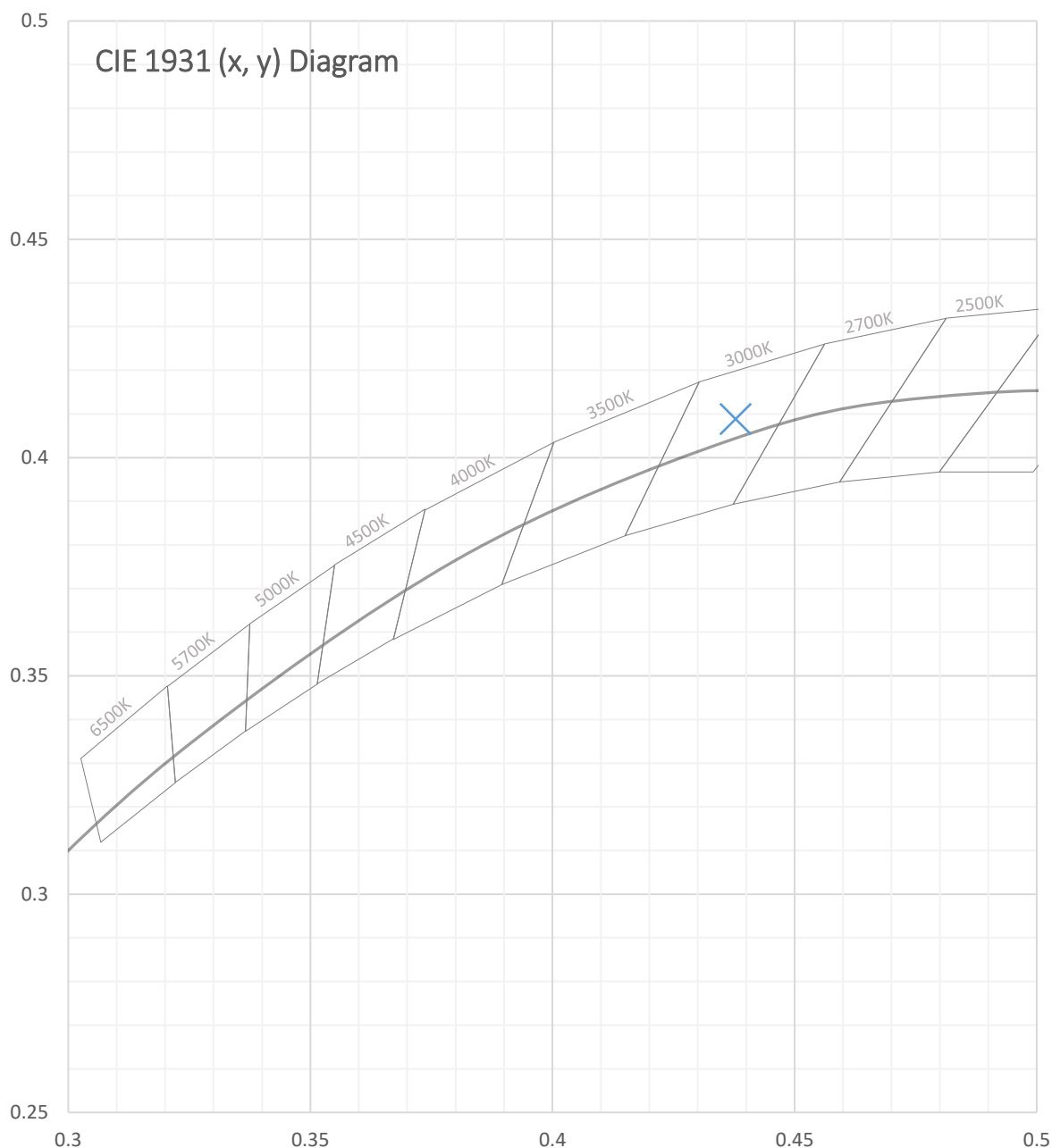


Test Report Number: LLIA001821-011B





Test Report Number: LLIA001821-011B





Test Report Number: LLIA001821-011B

Total Radiant Flux	57.31 W
Total Luminous Flux	20400.3 Lm
Chromaticity CIE 1931 (x, y)	(0.4379, 0.4088)
Chromaticity CIE 1976 (u', v')	(0.2492, 0.5234)
Correlated Color Temperature (CCT)	3023 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	62
R12	53
R13	69
R14	97
TM-30: Rf	72
TM-30: Rg	93
TM-30: Rcs,h1	-18
Distance from Planckian Locus (Duv)	0.0017
Scotopic/Photopic Ratio $\frac{V(\lambda)}{V_m(\lambda)}$	1.214

Electrical Data

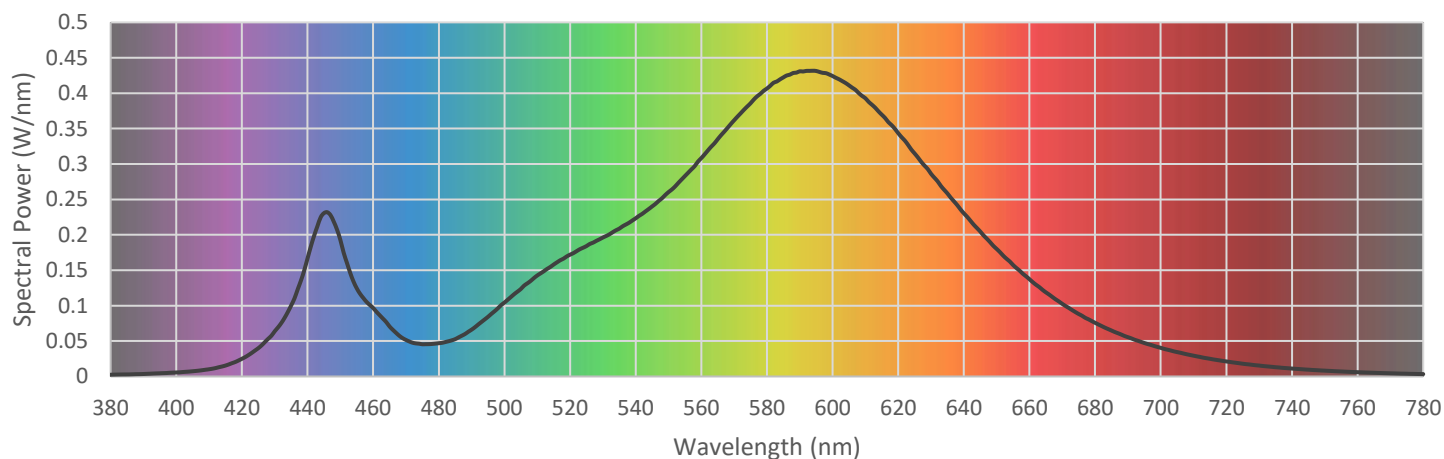
Voltage	120.0 Vac
Current	1.109 A
Power	132.7 W
Frequency	59.99 Hz
Power Factor	0.997
Current THD	4.0 %



Test Report Number: LLIA001821-011B

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

380	0.002482	480	0.046953	580	0.406578	680	0.075771
385	0.002880	485	0.052712	585	0.422274	685	0.064862
390	0.003471	490	0.066108	590	0.430892	690	0.055496
395	0.004518	495	0.084263	595	0.431360	695	0.047261
400	0.005631	500	0.104356	600	0.424234	700	0.040410
405	0.007385	505	0.123544	605	0.411079	705	0.034449
410	0.010175	510	0.142589	610	0.392888	710	0.029359
415	0.015423	515	0.158039	615	0.369588	715	0.024946
420	0.024965	520	0.172005	620	0.343579	720	0.021223
425	0.039966	525	0.184129	625	0.314941	725	0.017981
430	0.063852	530	0.196219	630	0.286203	730	0.015410
435	0.100265	535	0.208759	635	0.258408	735	0.013068
440	0.166889	540	0.223341	640	0.230381	740	0.011172
445	0.230609	545	0.240095	645	0.204660	745	0.009585
450	0.192726	550	0.260348	650	0.180115	750	0.008216
455	0.124429	555	0.282949	655	0.157374	755	0.007073
460	0.096602	560	0.308333	660	0.137308	760	0.006044
465	0.070510	565	0.335033	665	0.118782	765	0.005195
470	0.051520	570	0.361751	670	0.102535	770	0.004481
475	0.045490	575	0.385703	675	0.088215	775	0.003856
						780	0.003333





Test Report Number: LLIA001821-011B

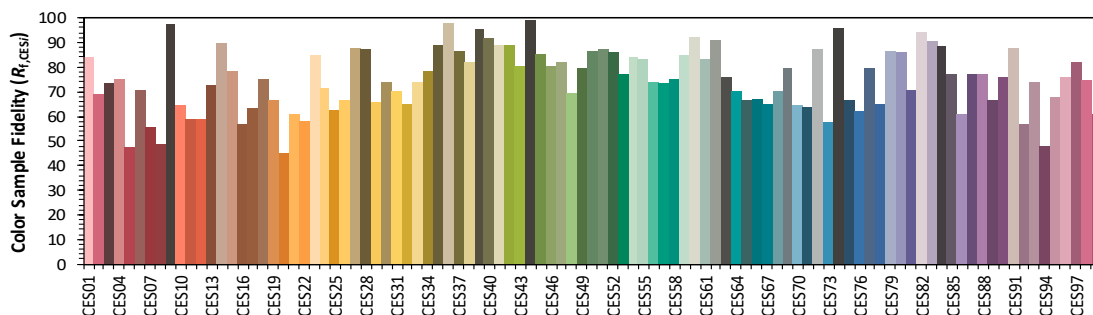
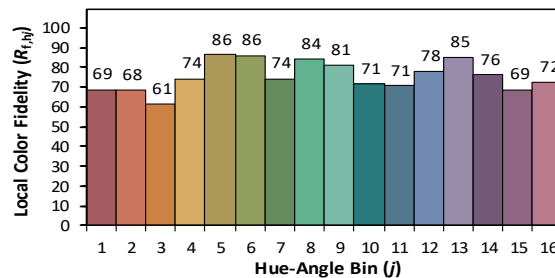
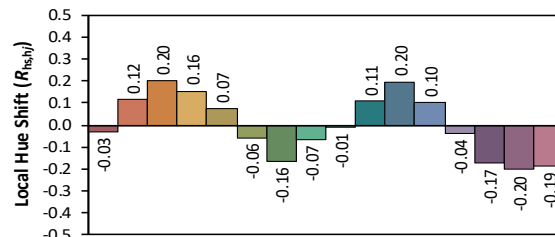
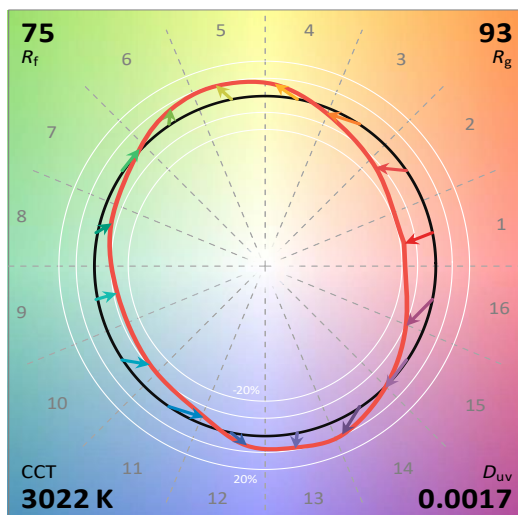
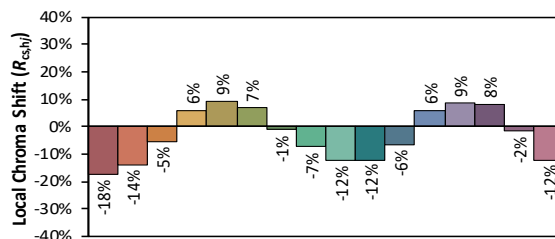
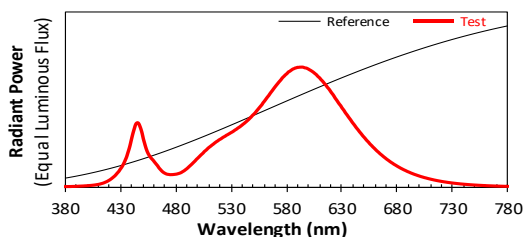
IES TM-30 Details

Source: LLIA001821-011B

Manufacturer: LED Roadway Lighting

Date: 8/3/2022

Model: L6-60M-5-X-2ES-3-X-XX-3-XX-X-X-X



Notes:

x 0.4379
y 0.4087
u' 0.2492
v' 0.5233

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

Test Report Number: LLIA001821-011B

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: 25.1 °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

LLIA001821-011C

Electrical Test Report

Catalog Number: L6-60M-5-X-2ES-3-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/1250C/2DIM/P6 LED driver set at 1050mA, Littlefuse LSP10277SBX3472 suppressor.



Performance Summary

Voltage	277.0 Vac
Current	0.4917 A
Power	130.0 W
Frequency	60.00 Hz
Power Factor	0.954
Current THD	9.4 %

Ambient Temperature: 25.6 °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: 08/02/2022

Report date: 08/03/2022

Electrical Report Template V1-4