



Report of Test

LLIA001821-010A

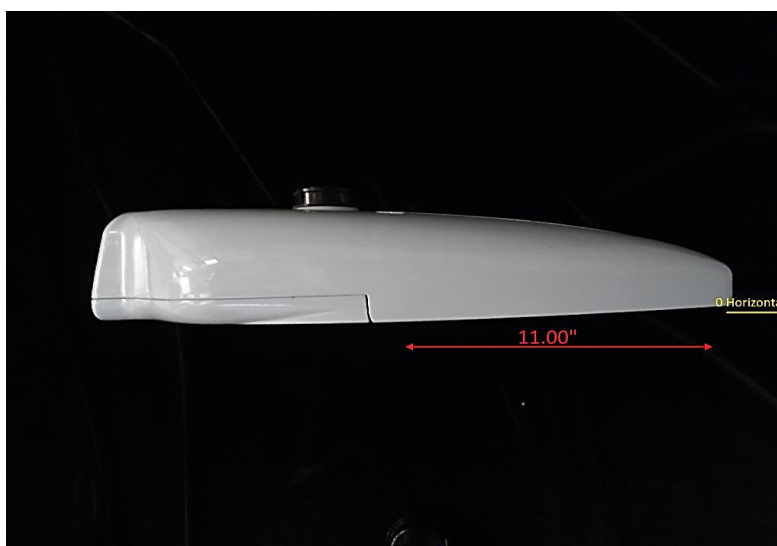
Roadway/Area Light Distribution Photometry Test Report

Catalog Number: L6-60M-5-X-2ES-W-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 900mA, 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	17750.6 Lumens
Input Current	0.9490 A	Total Efficacy	156.8 Lm/W
Input Power	113.2 W		
Frequency	60.00 Hz	Roadway Throw	Medium
Power Factor	0.993	Roadway Type	Type II
Current THD	4.5 %	IES BUG Rating	B3 - U0 - G3

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

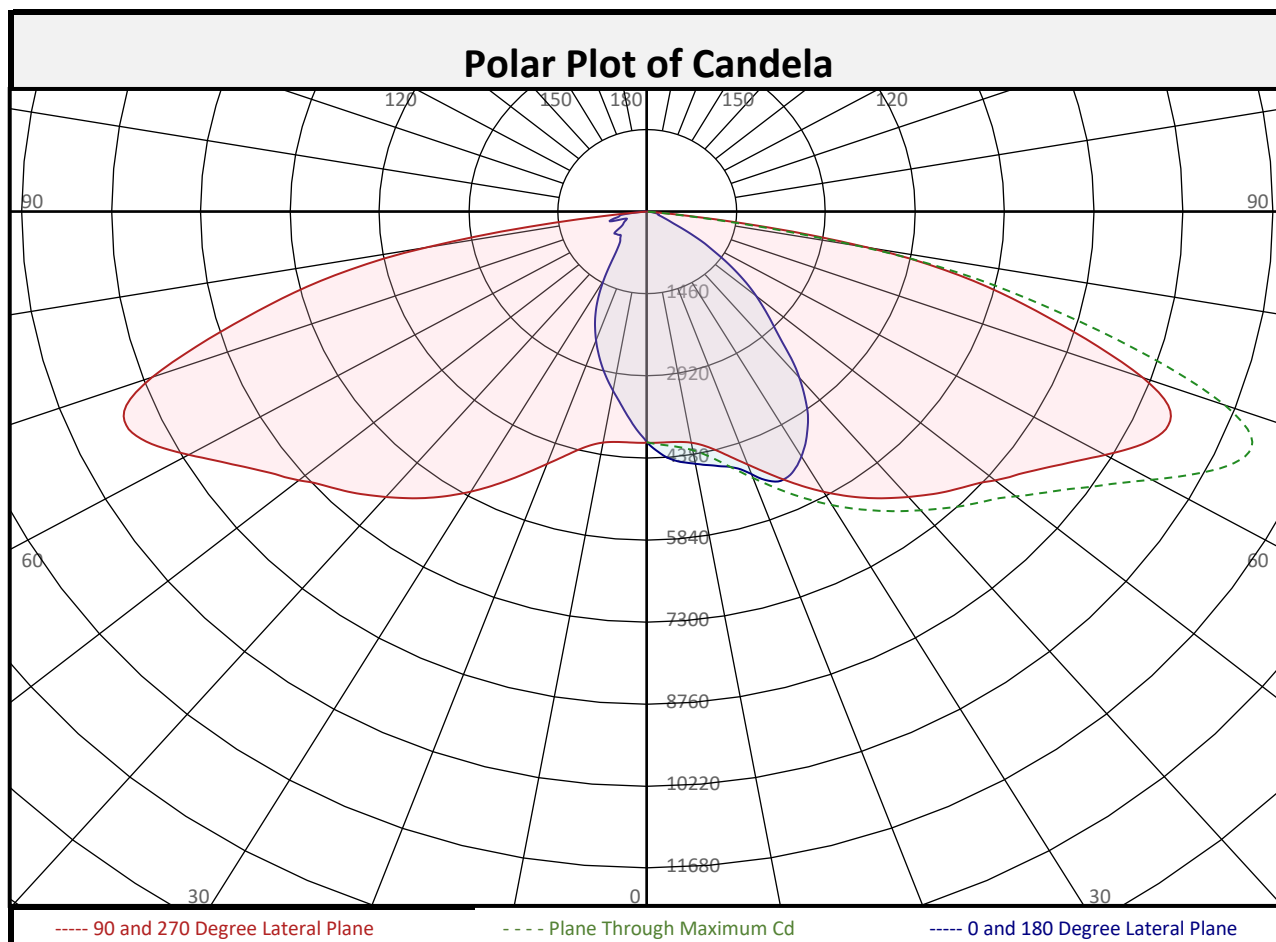
Test date: 08/02/2022

Report date: 08/03/2022

Signed: _____



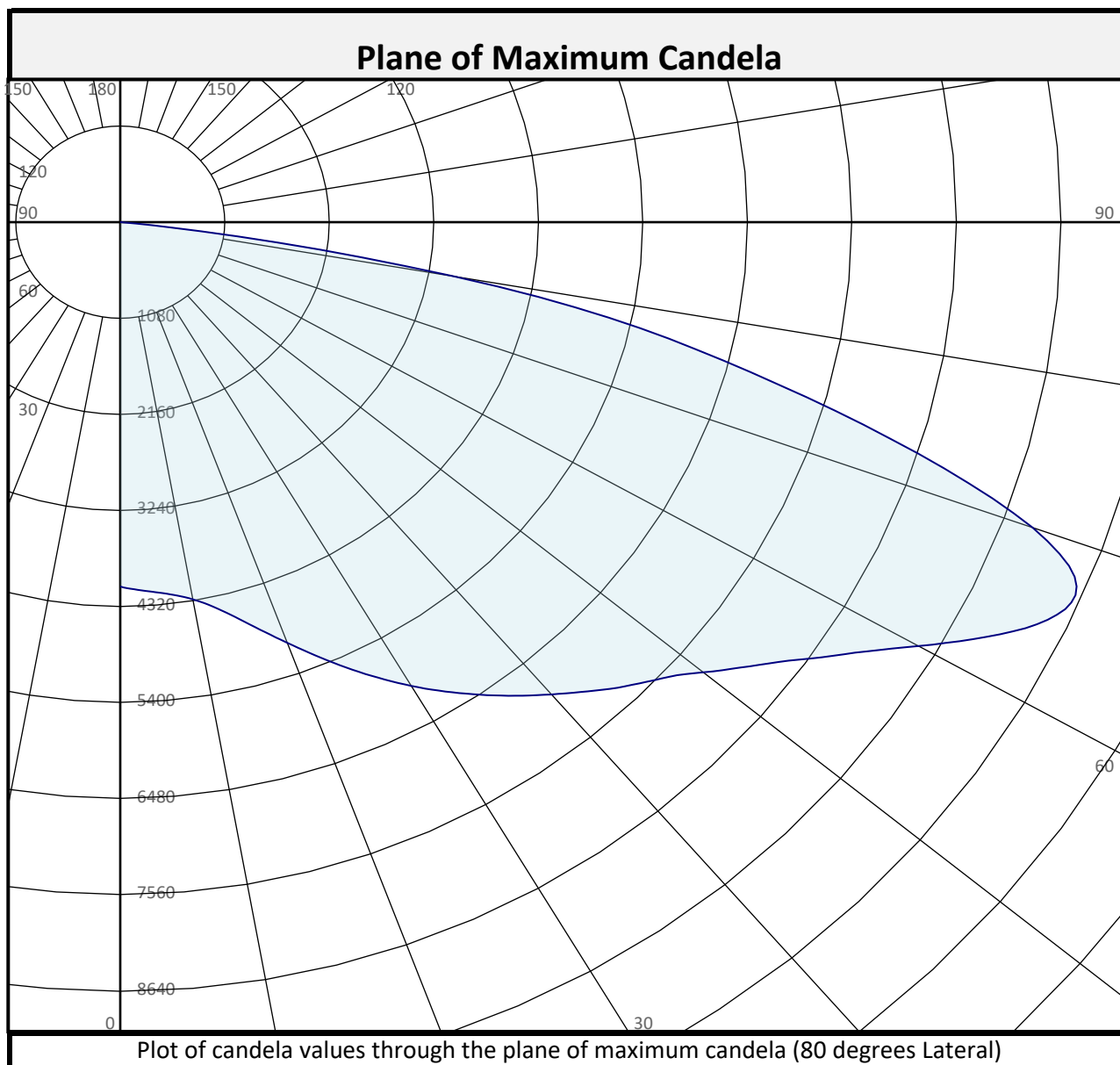
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Zonal Flux Summary										
Zone (Deg Vert)	Flux (Lumens)	Percent of Total		Zone (Deg Vert)	Flux (Lumens)	Percent of Total		Zone (Deg Vert)	Flux (Lumens)	Percent of Total
0-10	386.4	2.2%		90-100	0.0	0.0%		0-20	1531	8.6%
10-20	1145	6.5%		100-110	0.0	0.0%		0-30	3491	19.7%
20-30	1960	11.0%		110-120	0.0	0.0%		0-40	6157	34.7%
30-40	2666	15.0%		120-130	0.0	0.0%		0-60	12671	71.4%
40-50	3123	17.6%		130-140	0.0	0.0%		0-80	17532	98.8%
50-60	3391	19.1%		140-150	0.0	0.0%		10-90	17364	97.8%
60-70	3141	17.7%		150-160	0.0	0.0%		20-50	7749	43.7%
70-80	1719	9.7%		160-170	0.0	0.0%		40-90	11593	65.3%
80-90	219.1	1.2%		170-180	0.0	0.0%		60-90	5079	28.6%
0-90	17751	100.0%		90-180	0.0	0.0%		0-180	17751	100.0%



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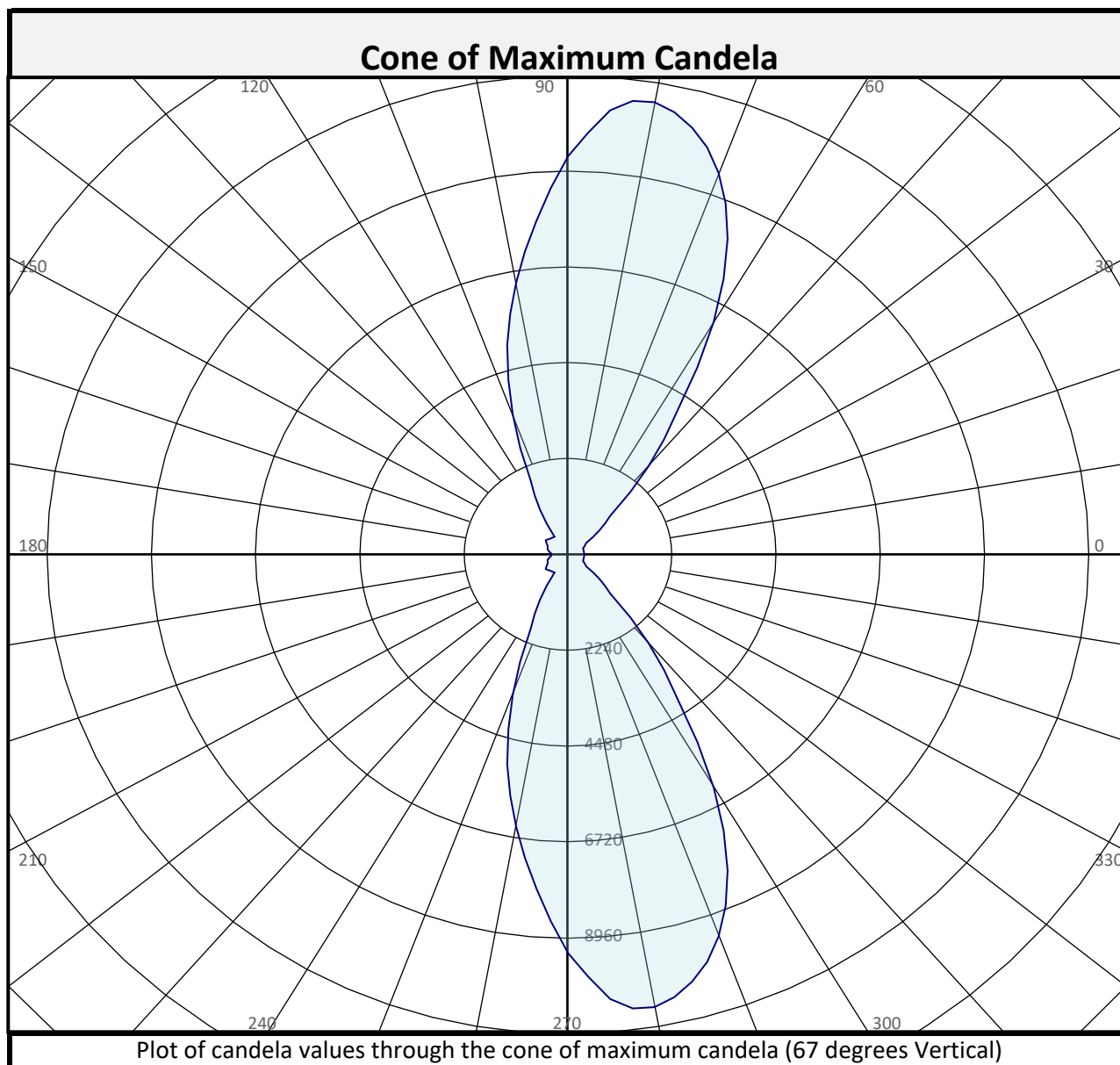


Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	11698.0	65.9%	0.0	0.0%	11698.0	65.9%
House Side	6052.6	34.1%	0.0	0.0%	6052.6	34.1%
Total	17750.6	100.0%	0.0	0.0%	17750.6	100.0%



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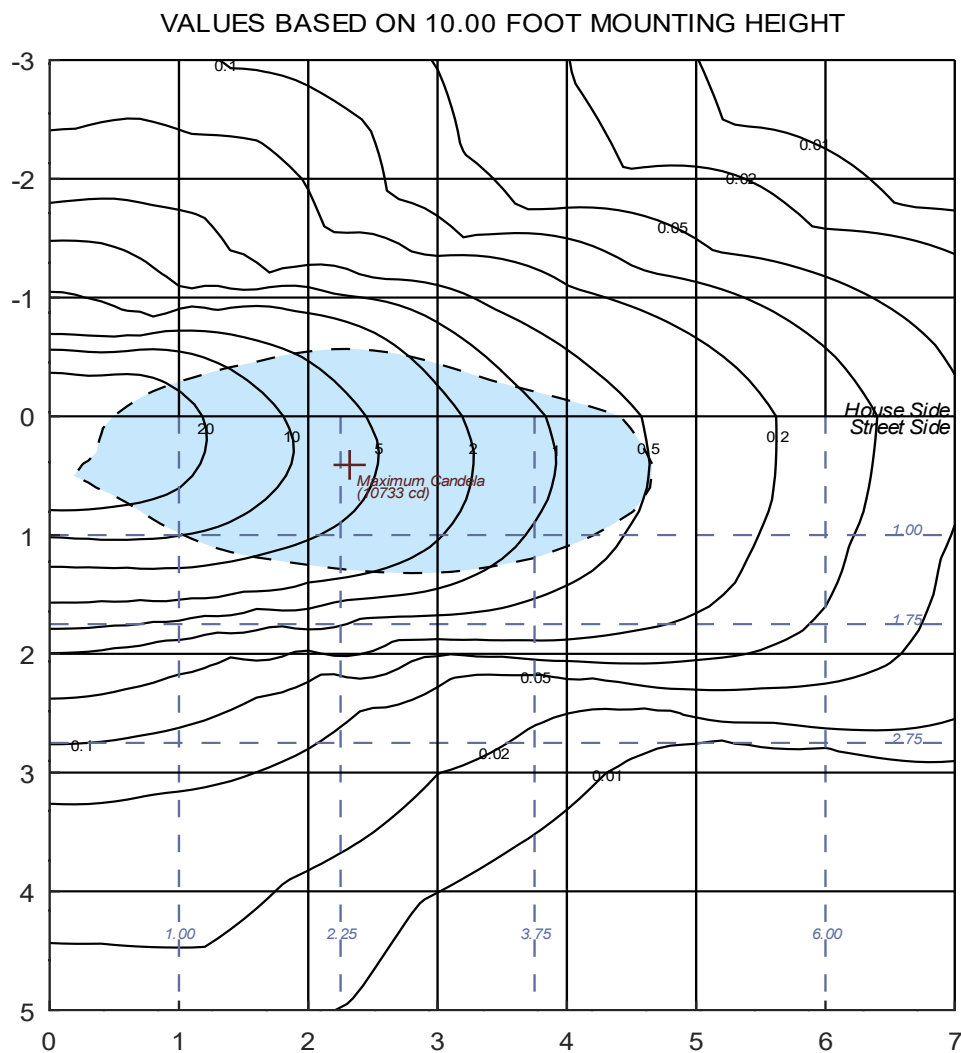
Street and House Side Flux Summary						
	Downward		Upward		Total	
	Lumens	% of Total	Lumens	% of Total	Lumens	% of Total
Street Side	11698.0	65.9%	0.0	0.0%	11698.0	65.9%
House Side	6052.6	34.1%	0.0	0.0%	6052.6	34.1%
Total	17750.6	100.0%	0.0	0.0%	17750.6	100.0%



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Iso-Illuminance Plot



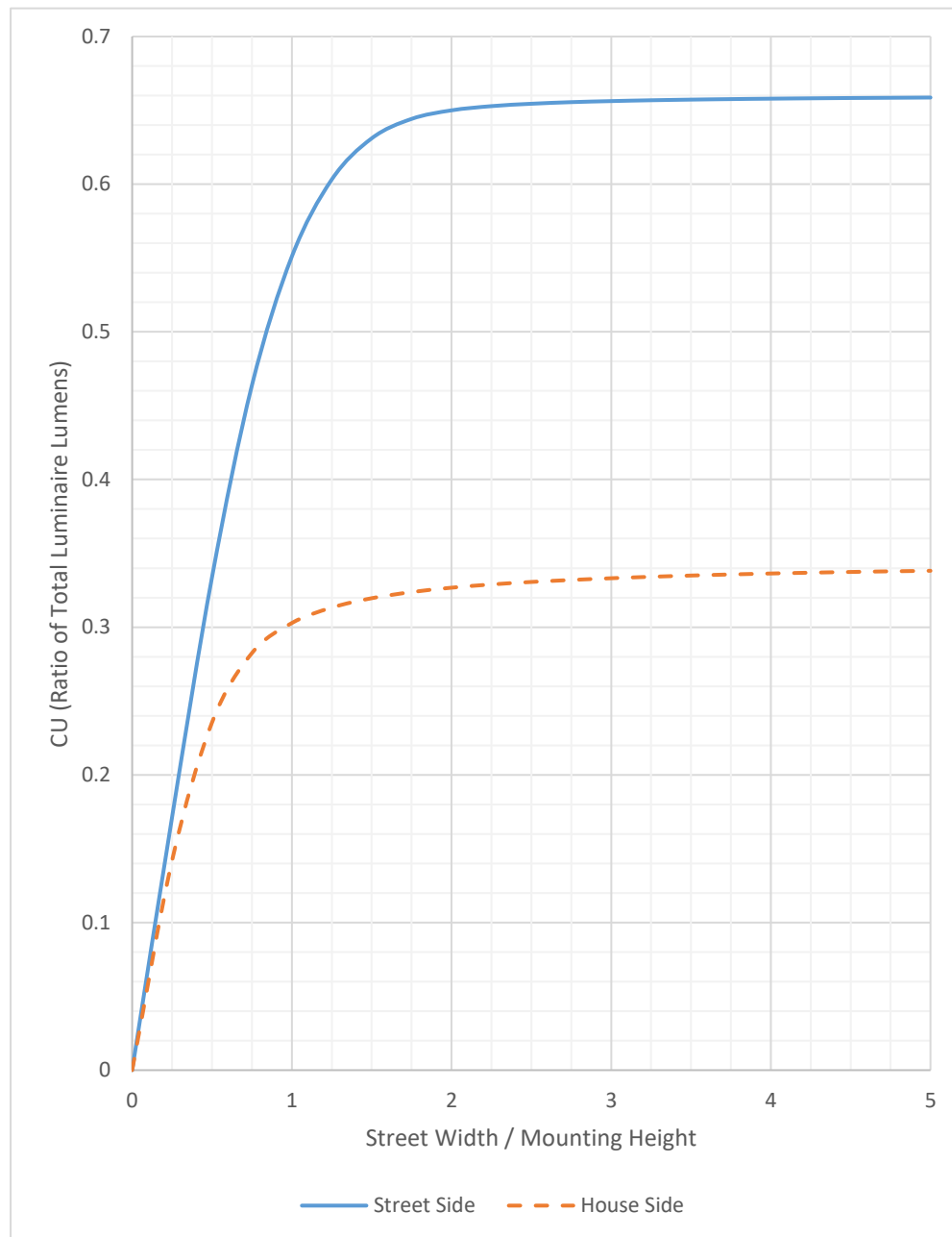
The isofootcandle values shown in the plot above are based on a mounting height of $h = 10.0$ feet. Grid values show multiples of mounting height. The isoilluminance contour lines are expressed in units of footcandles. The values expressed are based on the direct light from a single unit without the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



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Coefficients of Utilization Plot

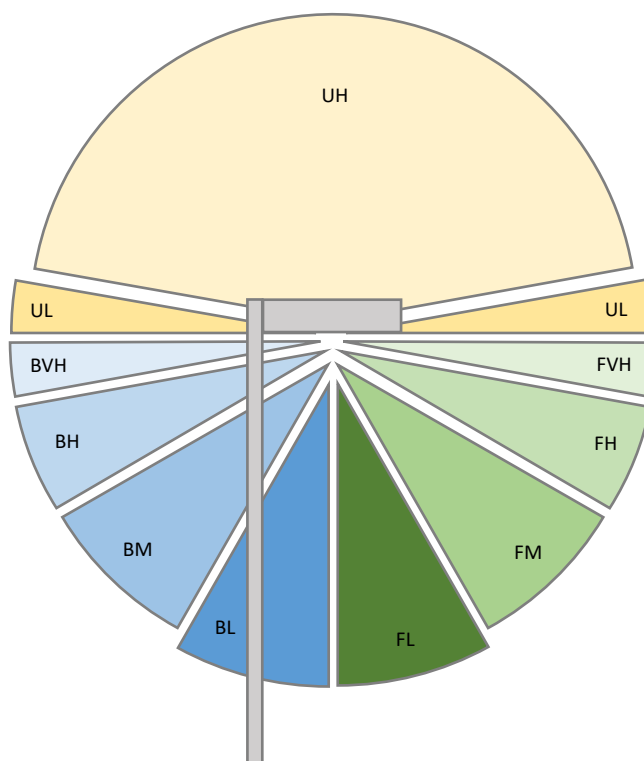




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LCS Tables and Bug Classification



Back Light

BL - Back Low (0°-30°)	1369.1 Lm
BM - Back Mid (30°-60°)	2919.3 Lm
BH - Back High (60°-80°)	1659.2 Lm
BVH - Back Very High (80°-90°)	105.1 Lm

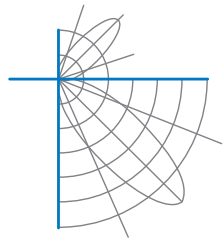
Uplight

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

Forward Light

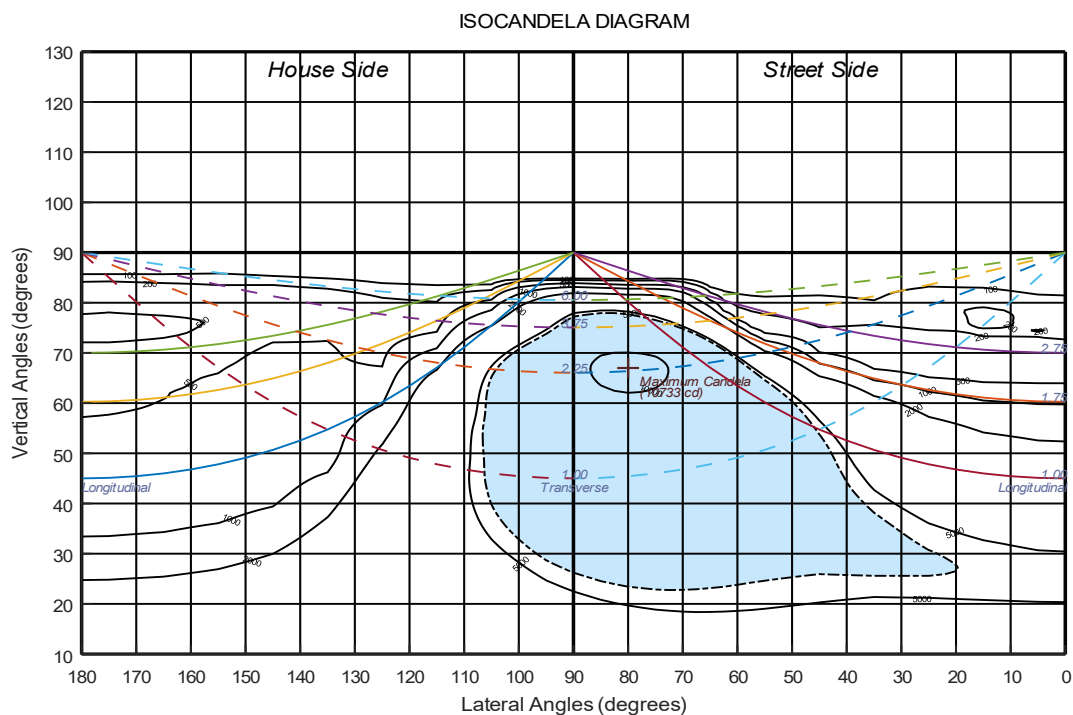
FL - Forward Low (0°-30°)	2122.0 Lm
FM - Forward Mid (30°-60°)	6260.9 Lm
FH - Forward High (60°-80°)	3201.1 Lm
FVH - Forward Very High (80°-90°)	114.0 Lm

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	4097	4097	4097	4097	4097	4097	4097	4097	4097	4097	4097	4097	4097	4097	4097
	2.5	4275	4277	4277	4261	4244	4225	4206	4199	4195	4188	4179	4172	4165	4158	4146
	5	4415	4416	4415	4398	4376	4345	4304	4293	4282	4270	4257	4245	4233	4218	4201
	7.5	4496	4498	4496	4485	4468	4444	4406	4394	4380	4363	4345	4324	4306	4285	4267
	10	4555	4555	4549	4546	4537	4528	4506	4496	4482	4468	4452	4430	4407	4380	4356
	12.5	4618	4617	4613	4614	4614	4620	4621	4617	4609	4597	4586	4567	4546	4519	4490
	15	4690	4689	4683	4685	4703	4731	4757	4757	4760	4759	4752	4742	4725	4701	4674
	17.5	4779	4777	4769	4778	4802	4850	4908	4917	4924	4933	4934	4934	4923	4903	4882
	20	4963	4957	4927	4905	4919	4984	5060	5081	5098	5112	5121	5129	5127	5118	5102
	22.5	5181	5181	5168	5122	5081	5126	5222	5246	5273	5299	5315	5333	5341	5344	5334
	25	5259	5271	5311	5331	5310	5293	5393	5422	5456	5488	5518	5544	5561	5571	5569
	27.5	5189	5209	5303	5436	5520	5504	5574	5610	5648	5684	5725	5762	5787	5800	5810
	30	5032	5053	5190	5400	5645	5739	5769	5806	5847	5892	5937	5984	6018	6039	6049
	32.5	4824	4851	5015	5266	5643	5926	5984	6008	6048	6095	6141	6191	6236	6265	6278
	35	4574	4603	4787	5087	5558	6036	6205	6225	6255	6300	6347	6394	6440	6479	6500
	37.5	4250	4291	4529	4871	5414	6054	6406	6437	6467	6514	6560	6603	6652	6693	6716
	40	3865	3910	4200	4618	5229	6010	6569	6626	6675	6725	6776	6823	6870	6914	6942
	42.5	3407	3464	3822	4344	5018	5925	6685	6785	6856	6922	6984	7041	7092	7135	7165
	45	2961	3003	3382	4042	4815	5842	6775	6925	7037	7129	7204	7271	7328	7375	7402
	47.5	2629	2665	2971	3701	4590	5760	6883	7078	7227	7340	7433	7507	7563	7607	7625
	50	2315	2346	2626	3321	4338	5659	6981	7225	7413	7562	7684	7780	7843	7891	7914
	52.5	1980	2008	2267	2907	4024	5489	7068	7361	7598	7790	7944	8069	8153	8216	8245
	55	1627	1648	1861	2458	3636	5216	7049	7412	7715	7958	8164	8339	8469	8554	8605
	57.5	1269	1281	1436	1951	3127	4839	6873	7323	7716	8039	8315	8553	8743	8892	8988
	60	964	972	1082	1445	2455	4290	6583	7129	7628	8068	8450	8781	9060	9278	9434
	62.5	646	653	706	948	1645	3397	6069	6768	7419	8013	8527	8968	9352	9678	9911
	65	438	433	430	518	870	2174	5182	6095	6960	7744	8440	9029	9526	9940	10261
	67.5	329	329	330	339	413	1115	3806	4900	6049	7092	8018	8801	9445	9945	10299
	70	255	256	262	280	290	522	2215	3224	4493	5780	6955	7971	8733	9341	9762
	72.5	201	205	210	236	249	282	998	1675	2712	3995	5184	6306	7217	7827	8316
	75	195	198	201	192	211	202	334	539	1201	2222	3383	4327	5235	5924	6374
	77.5	188	190	212	175	159	155	206	240	334	844	1775	2711	3595	4331	4853
	80	130	137	175	163	108	132	132	143	165	239	688	1349	2192	2809	3188
	82.5	74	78	115	126	69	74	70	73	78	92	152	444	768	1081	1185
	85	30	30	38	39	27	27	25	26	26	28	33	49	59	58	51
	87.5	6	6	6	5	6	8	11	11	12	13	14	15	16	17	18
	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	4097	4097	4097	4097	4097	4097	4097	4097	4097	4097	4097	4097	4097	4097	4097
	2.5	4141	4139	4129	4117	4112	4084	4043	4007	3970	3942	3916	3899	3883	3877	3874
	5	4188	4178	4159	4142	4115	4069	3994	3921	3847	3782	3724	3684	3654	3642	3639
	7.5	4246	4228	4203	4177	4130	4069	3952	3834	3716	3614	3535	3473	3433	3415	3411
	10	4332	4307	4275	4239	4171	4093	3926	3752	3594	3459	3363	3294	3247	3221	3217
	12.5	4460	4428	4392	4345	4256	4156	3925	3688	3481	3322	3205	3123	3065	3034	3029
	15	4638	4597	4558	4506	4392	4266	3962	3652	3395	3194	3054	2952	2880	2840	2835
	17.5	4847	4805	4761	4705	4572	4420	4040	3653	3331	3078	2900	2770	2684	2639	2633
	20	5069	5031	4982	4923	4775	4603	4151	3688	3295	2972	2741	2581	2481	2431	2426
	22.5	5305	5274	5224	5164	5002	4808	4289	3747	3275	2868	2574	2383	2267	2214	2209
	25	5549	5526	5475	5413	5245	5027	4446	3828	3262	2761	2398	2173	2042	1982	1974
	27.5	5797	5775	5727	5665	5498	5257	4621	3923	3247	2649	2209	1945	1788	1717	1708
	30	6041	6023	5979	5913	5746	5488	4804	4025	3227	2520	1997	1684	1499	1416	1405
	32.5	6273	6260	6218	6151	5984	5704	4975	4123	3206	2372	1753	1399	1202	1111	1098
	35	6499	6487	6448	6383	6209	5910	5133	4205	3173	2193	1483	1112	935	874	868
	37.5	6720	6713	6675	6610	6421	6102	5265	4264	3124	1978	1203	876	777	744	740
	40	6944	6935	6894	6830	6624	6286	5374	4293	3039	1730	942	735	686	672	671
	42.5	7169	7157	7119	7057	6824	6461	5458	4289	2909	1443	751	658	647	639	638
	45	7398	7382	7342	7277	7016	6620	5520	4250	2725	1140	650	625	611	601	598
	47.5	7619	7595	7551	7483	7197	6762	5552	4169	2483	861	615	592	590	615	615
	50	7906	7875	7824	7743	7434	6937	5589	4061	2205	673	588	574	627	636	631
	52.5	8242	8206	8129	8020	7667	7106	5638	3928	1906	620	571	601	649	657	650
	55	8612	8577	8492	8361	7946	7300	5674	3717	1557	589	566	606	642	629	616
	57.5	9033	9010	8925	8773	8273	7503	5633	3436	1229	558	576	584	556	505	490
	60	9518	9533	9449	9267	8651	7732	5622	3139	967	547	592	548	508	459	444
	62.5	10056	10100	10010	9795	9033	7937	5575	2803	751	544	603	530	492	434	417
	65	10479	10582	10506	10253	9301	7986	5391	2367	592	540	598	511	476	399	382
	67.5	10555	10706	10678	10411	9266	7755	4966	1788	493	530	585	475	452	364	354
	70	9949	10042	10024	9803	8632	7062	4241	1197	428	521	552	420	418	375	368
	72.5	8585	8652	8629	8487	7526	5953	3233	714	378	499	488	386	465	536	534
	75	6770	7035	7120	7093	6389	4839	2154	433	334	450	425	440	592	628	618
	77.5	5159	5508	5656	5662	5232	3848	1280	289	280	378	406	445	496	525	511
	80	3339	3491	3668	3679	3640	2719	650	205	224	306	334	335	389	456	450
	82.5	1230	1219	1319	1400	1535	1186	203	134	150	213	239	246	296	374	367
	85	47	41	41	42	43	45	47	53	65	93	117	146	135	145	143
	87.5	19	20	20	21	22	23	24	25	24	24	26	29	38	40	39
	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

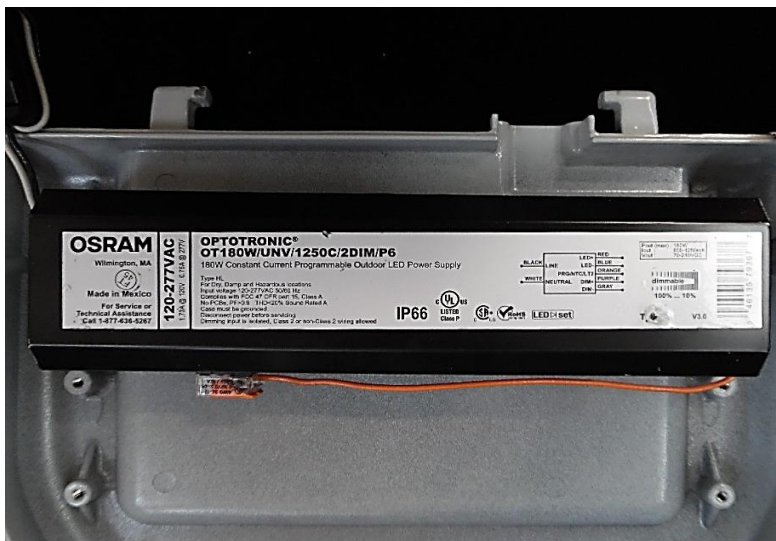
		Lateral (C-Plane) Angles														
		77.5	80	82.5	85	90	95	105	115	125	135	145	155	165	175	180
Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	92.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	97.5	0	0	0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

LLIA001821-010A

Additional Pictures of Test Subject



Report of Test

LLIA001821-010A

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

LLIA001821-010B

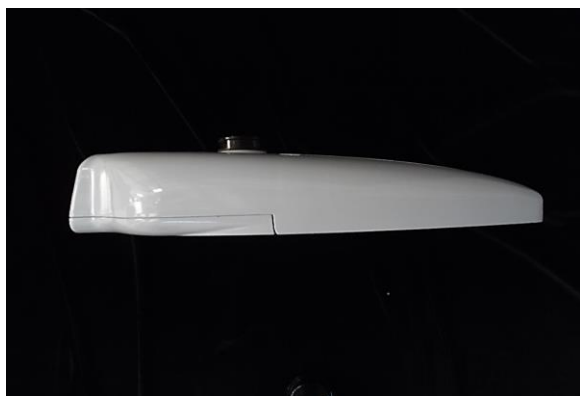
Integrating Sphere Report

Catalog Number: L6-60M-5-X-2ES-W-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 900mA, Littlefuse LSP10277SBX3472 suppressor.



Performance Summary

Voltage	120.0 Vac
Current	0.9451 A
Power	112.9 W
Frequency	59.99 Hz
Power Factor	0.995
Current THD	4.5 %
Total Luminous Flux	17760.6 lm
Efficacy	157.3 lm/W
Chromaticity (x,y)	(0.4381, 0.4090)
(u',v')	(0.2492, 0.5235)
Duv	0.0018
CCT	3020 K
CRI (Ra)	71
R9	-43
TM-30: Rf	72
TM-30: Rg	93
TM-30: Rcs,h1	-18

Prepared For:

LED Roadway Lighting

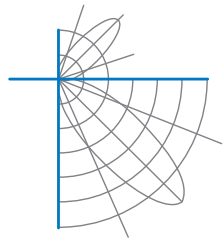
84 Chain Lake Drive

Suite 403

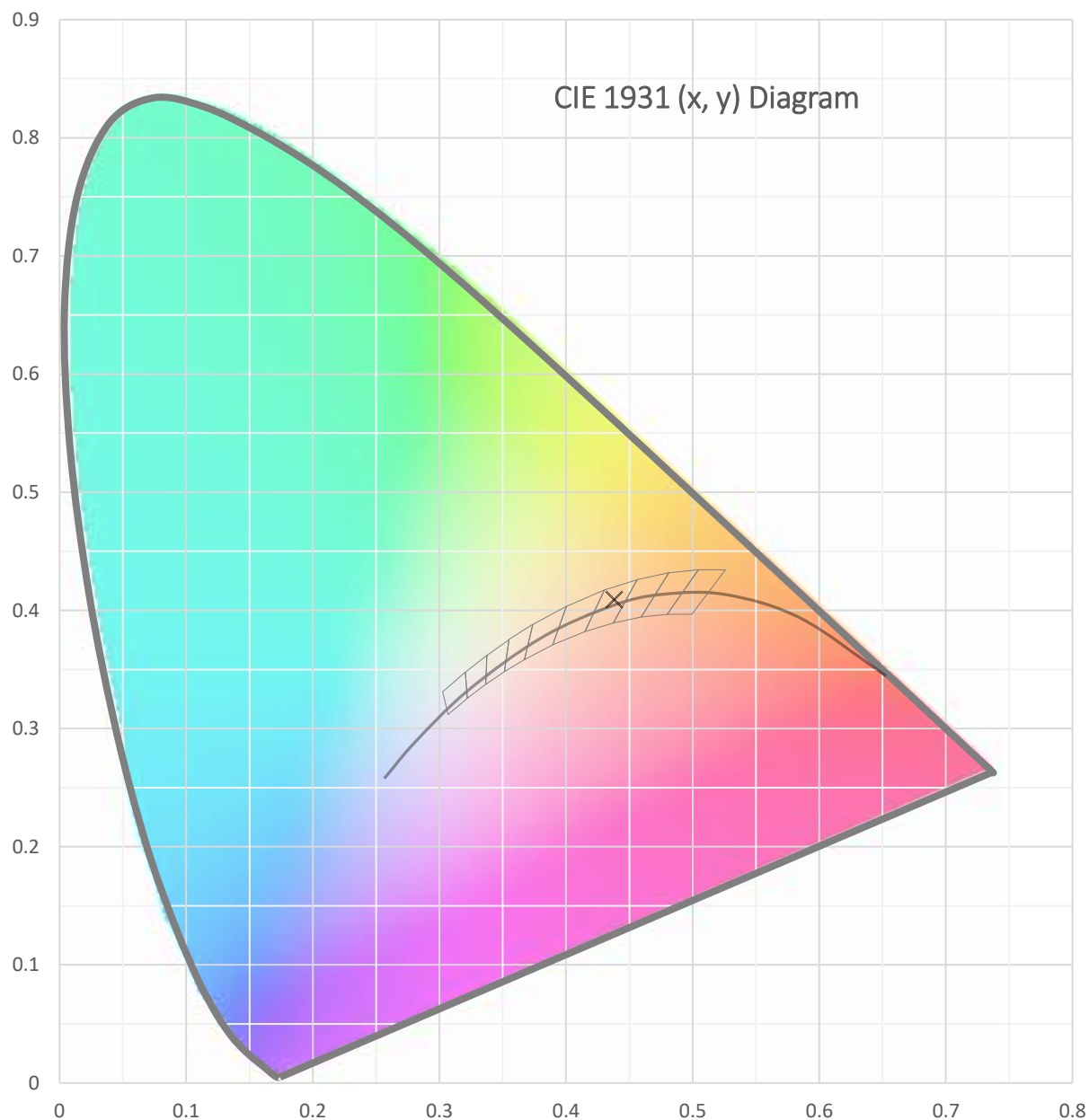
Halifax, Nova Scotia B3S 1A2, Canada

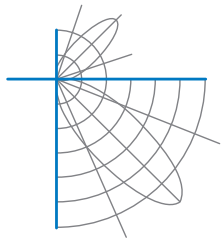
Test date: 08/02/2022

Report date: 08/03/2022

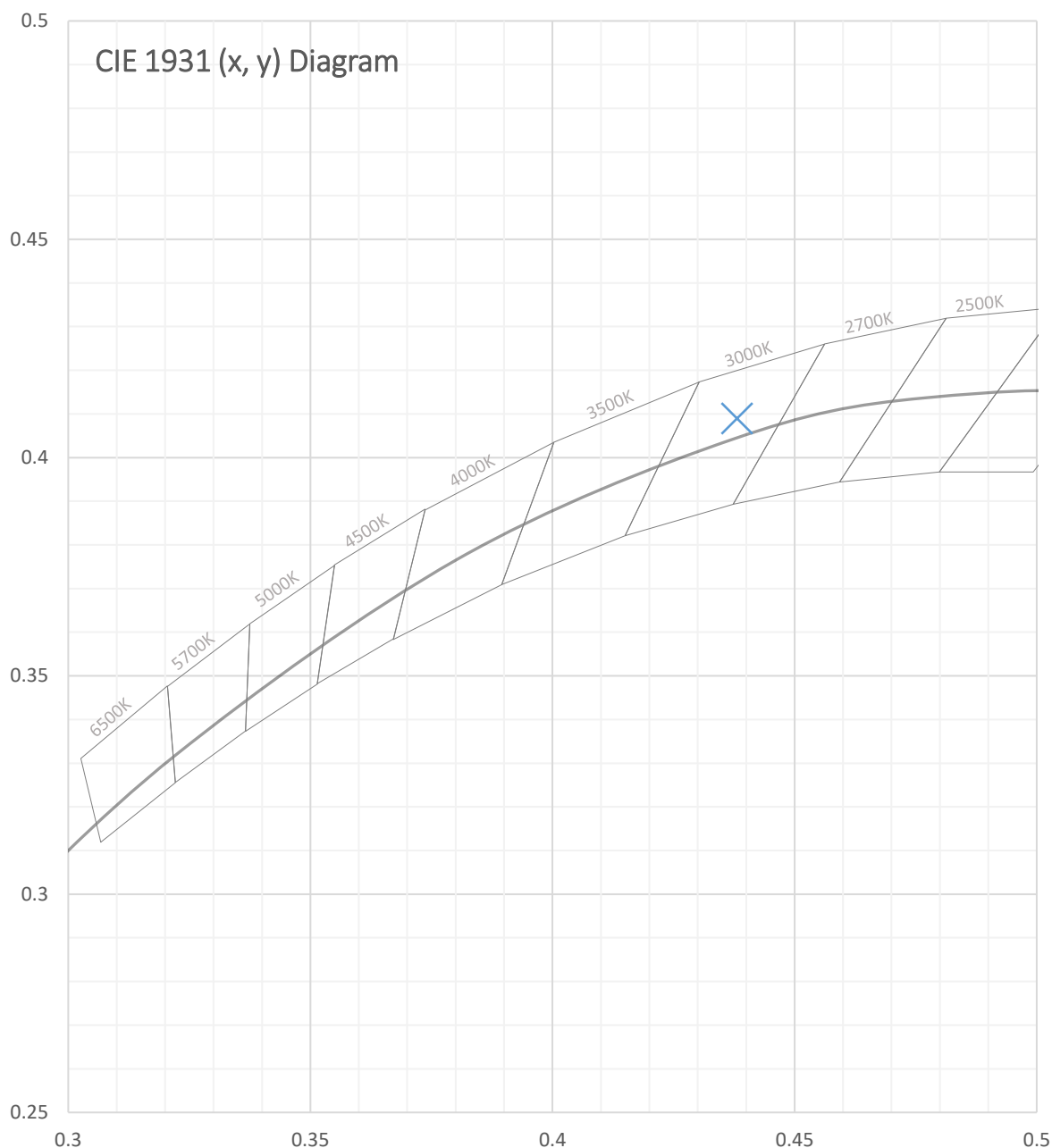


Test Report Number: LLIA001821-010B





Test Report Number: LLIA001821-010B





Test Report Number: LLIA001821-010B

Total Radiant Flux	49.84 W
Total Luminous Flux	17760.6 Lm
Chromaticity CIE 1931 (x, y)	(0.4381, 0.4090)
Chromaticity CIE 1976 (u', v')	(0.2492, 0.5235)
Correlated Color Temperature (CCT)	3020 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	-18
Distance from Planckian Locus (Duv)	0.0018
Scotopic/Photopic Ratio $\frac{V_{\lambda}}{V_{\lambda}^{\text{scot}}}$	1.213

Electrical Data

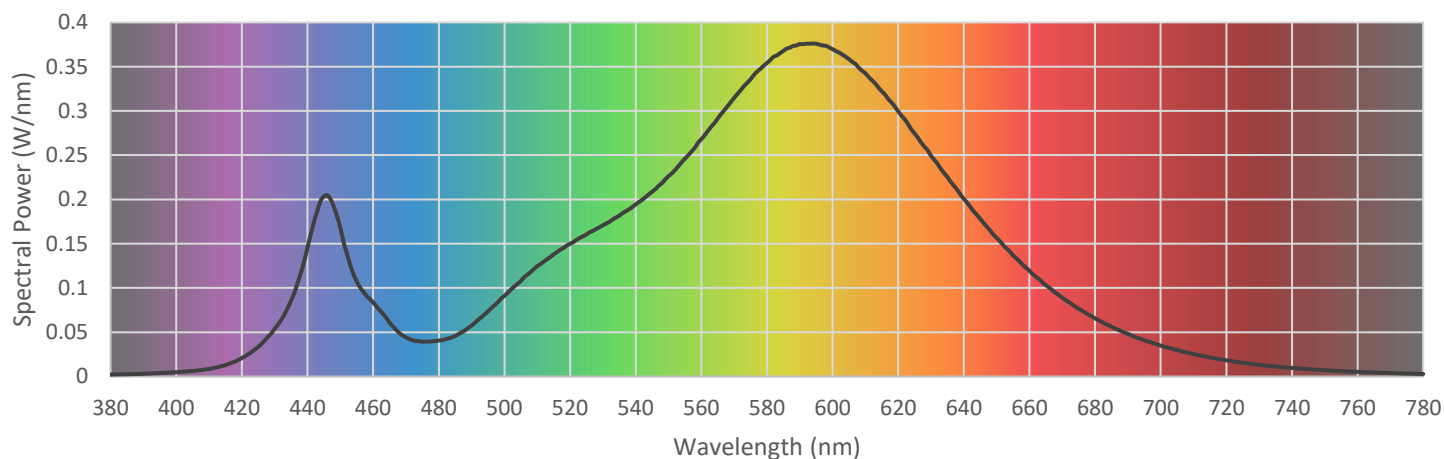
Voltage	120.0 Vac
Current	0.9451 A
Power	112.9 W
Frequency	59.99 Hz
Power Factor	0.995
Current THD	4.5 %



Test Report Number: LLIA001821-010B

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

380	0.002129	480	0.040575	580	0.354133	680	0.065655
385	0.002491	485	0.045744	585	0.367768	685	0.056190
390	0.002995	490	0.057552	590	0.375534	690	0.048117
395	0.003873	495	0.073628	595	0.375859	695	0.040890
400	0.004804	500	0.091083	600	0.369665	700	0.034905
405	0.006210	505	0.107820	605	0.358375	705	0.029754
410	0.008493	510	0.124574	610	0.342419	710	0.025332
415	0.012842	515	0.137944	615	0.322102	715	0.021508
420	0.020862	520	0.149923	620	0.299471	720	0.018259
425	0.033526	525	0.160401	625	0.274523	725	0.015525
430	0.054018	530	0.170849	630	0.249348	730	0.013243
435	0.085889	535	0.181625	635	0.225173	735	0.011262
440	0.145802	540	0.194275	640	0.200606	740	0.009621
445	0.203500	545	0.208659	645	0.178071	745	0.008232
450	0.167754	550	0.226253	650	0.156569	750	0.007056
455	0.107209	555	0.246049	655	0.136793	755	0.006035
460	0.083612	560	0.268028	660	0.119325	760	0.005195
465	0.060762	565	0.291339	665	0.103069	765	0.004451
470	0.044166	570	0.314630	670	0.088921	770	0.003829
475	0.039209	575	0.335644	675	0.076583	775	0.003300
						780	0.002856





Test Report Number: LLIA001821-010B

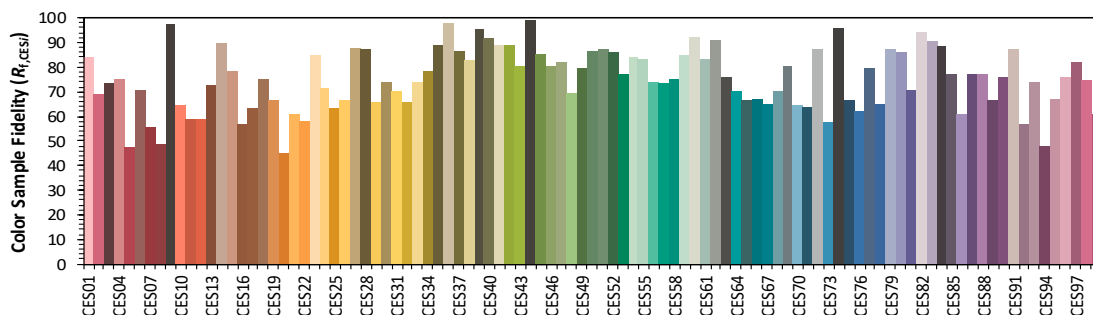
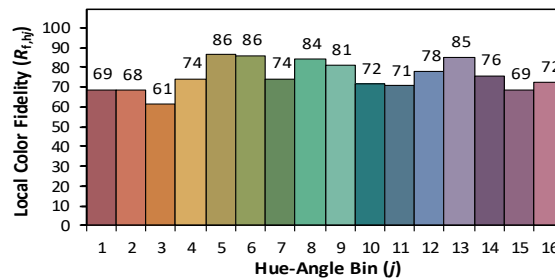
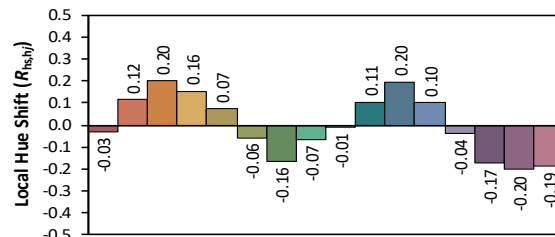
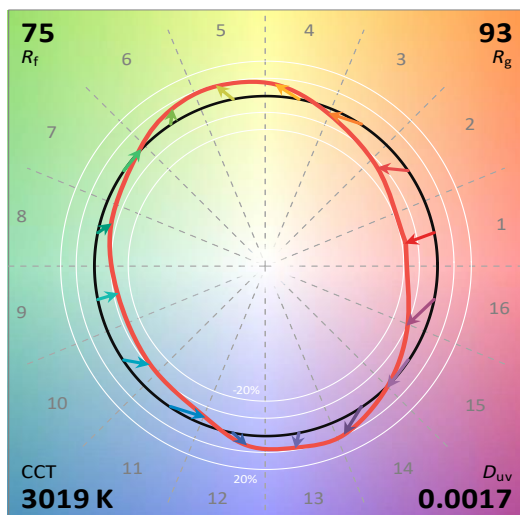
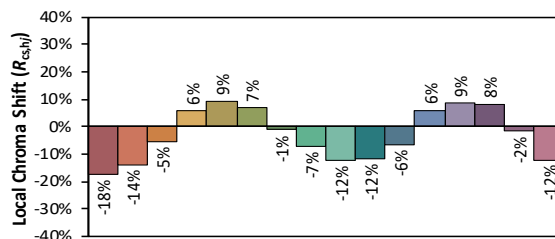
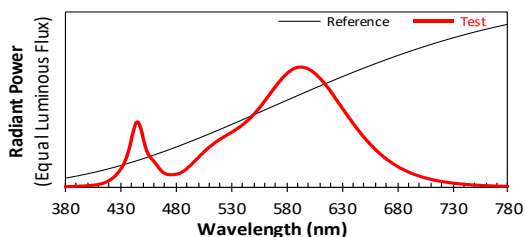
IES TM-30 Details

Source: LLIA001821-010B

Manufacturer: LED Roadway Lighting

Date: 8/3/2022

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



Notes:

x 0.4381
y 0.4089
u' 0.2493
v' 0.5234

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

Test Report Number: LLIA001821-010B

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: 25.5 °C

Test Procedure: Tested in accordance with the applicable sections of:
LM-79-19, LM-78-20, LM-58-20, ANSI_ANSLG 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

LLIA001821-010C

Electrical Test Report

Catalog Number: L6-60M-5-X-2ES-W-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 900mA, Littlefuse LSP10277SBX3472 suppressor.



Performance Summary

Voltage	277.0 Vac
Current	0.4265 A
Power	111.3 W
Frequency	60.00 Hz
Power Factor	0.942
Current THD	10.5 %
Ambient Temperature:	25.0 °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