



Report of Test LLI-19120-8

LED Roadway Lighting - Roadway luminaire. Product ID: L6 60M 5 X G3M 3 X XX 4 XX X X
Grey cast aluminum housing with clear flat glass array lenses.
60 LEDs in three 4 x 5 arrays with clear plastic sheets of individual lenses.
One Osram Optotronic LED driver. Model: OT180W/UNV/1250C/2DIMLT2/P6 set to 900ma.
Operating at 120v AC and 60 Hz.



Performance Summary

Total Light Output	16380 lm	Min Power Factor	0.95 @ 277 V
Luminaire Power	113.4 W	Max THD(i)*	6.0 % @ 120 V
Luminous Efficacy	144.4 lm/W	0-90° Zonal Flux %	100.0 %
CCT	3950 K	80-90° Zonal Flux %	1.1 %
CIE(x,y) 1931	(0.384, 0.382)	BUG Rating*	B3-U0-G3
CRI	71	Street Classification*	Type III Very Short

PREPARED FOR : LED Roadway Lighting Ltd, 115 Chain Lake Drive, Halifax. NS Canada



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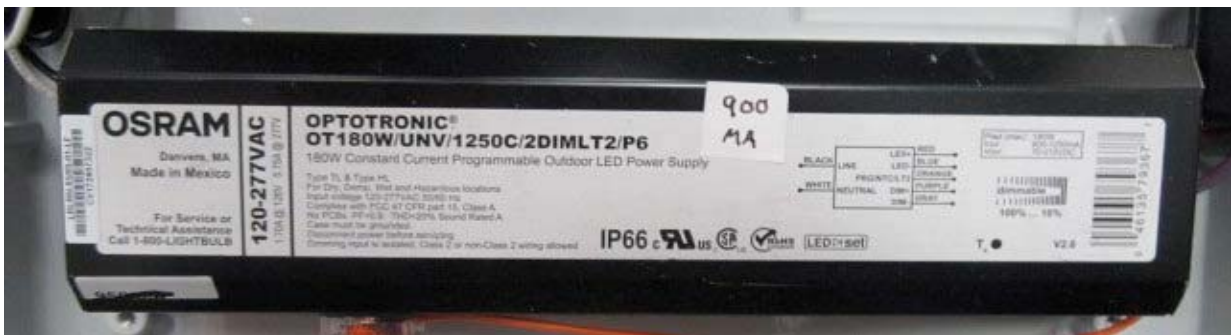
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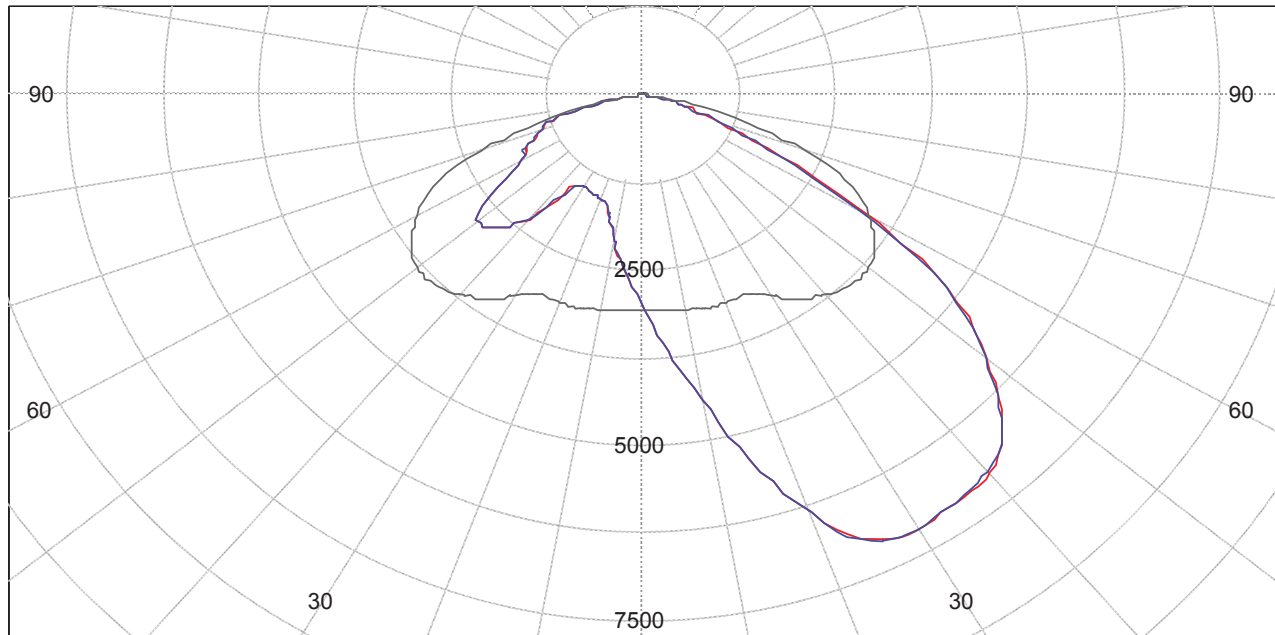




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Polar Light Distribution Curves



House side / L270

L90 / 270 - Black, Plane of maximum - Red, L0 / 180 - Blue (cd)

Street side / L90

Percentage Outputs

	Upward	Downward	Total
Street Side	0.0 %	73.3 %	73.3 %
House Side	0.0 %	26.7 %	26.7 %
	0.0 %	100.0 %	100.0 %

Report data based on absolute values as measured.

Signed:

Ryder Tunney
Ryder Tunney
Authorized Signatory

Date of test
Date of report

10-May-2019
10-May-2019

RT



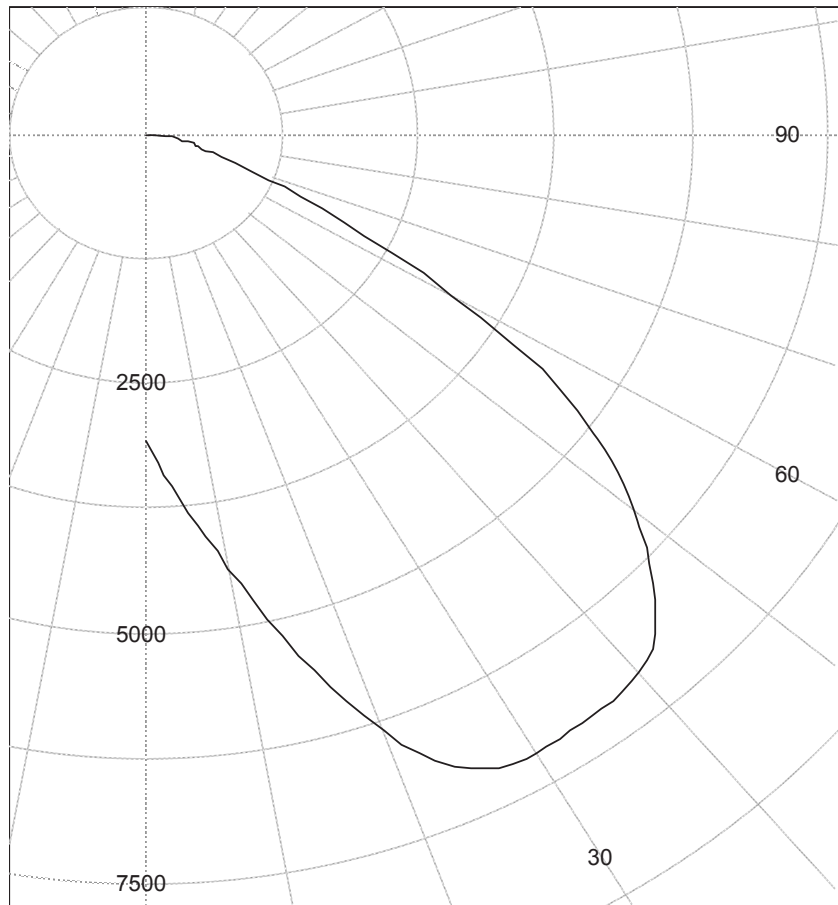
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Intensity in principal plane
(based on overall max intensity)

Vertical Angle (°)	Intensity (cd)
0.0	3067.9
10.0	4405.1
20.0	6350.4
30.0	7152.8
35.0	7113.5
40.0	7019.3
45.0	6594.1
47.5	6241.1
50.0	5825.5
52.5	5395.5
55.0	4827.0
57.5	4159.9
60.0	3235.2
62.5	2394.3
65.0	1794.0
67.5	1300.9
70.0	867.9
72.5	623.8
75.0	509.3
77.5	433.8
80.0	304.8
82.5	175.5
85.0	87.2
87.5	13.2
90.0	0.0
92.5	0.0
95.0	0.0
97.5	0.0
100.0	0.0
102.5	0.0
105.0	0.0
120.0	0.0
135.0	0.0
150.0	0.0
165.0	0.0
180.0	0.0

Principal Vertical Plane

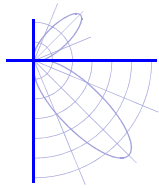


Plane of maximum intensity (cd)

House side max intensity
3853.7 cd @ (90.0°, 47.5°)

Street side max intensity
7155.6 cd @ (5.0°, 29.5°)

Coordinates expressed in the C Type coordinate system
Data for the two symmetric halves of the luminaire has been averaged.



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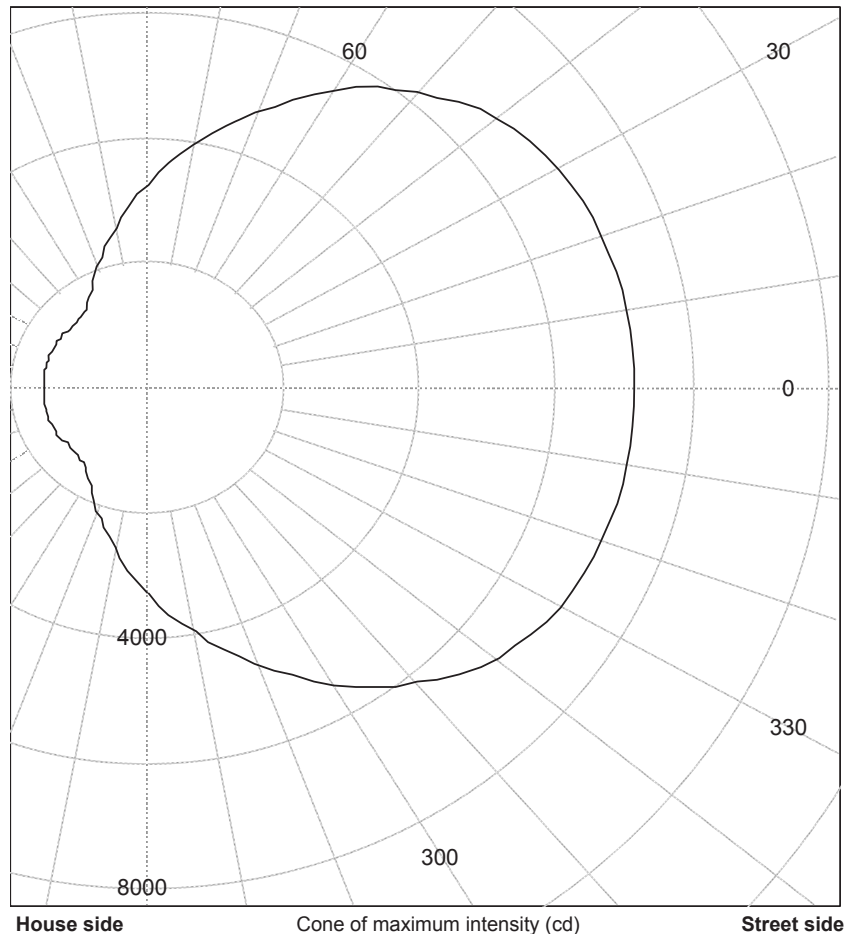
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Operating at 120v AC and 60 Hz.

Intensity in principal cone
(based on overall max intensity)

Lateral Plane (°)	(V29.5) (cd)
0	7149.3
15	7126.2
30	6970.6
40	6705.2
45	6468.5
50	6152.1
55	5849.3
60	5489.0
65	5071.7
70	4674.9
75	4310.5
80	3968.8
85	3629.5
90	3269.8
95	2925.3
100	2595.2
105	2311.1
110	2072.4
115	1869.9
120	1676.9
125	1537.8
130	1474.9
135	1466.3
140	1468.1
150	1488.1
165	1502.5
180	1514.9

Principal Conical Surface



House side max intensity
3853.7 cd @ (90.0°, 47.5°)

Street side max intensity
7155.6 cd @ (5.0°, 29.5°)

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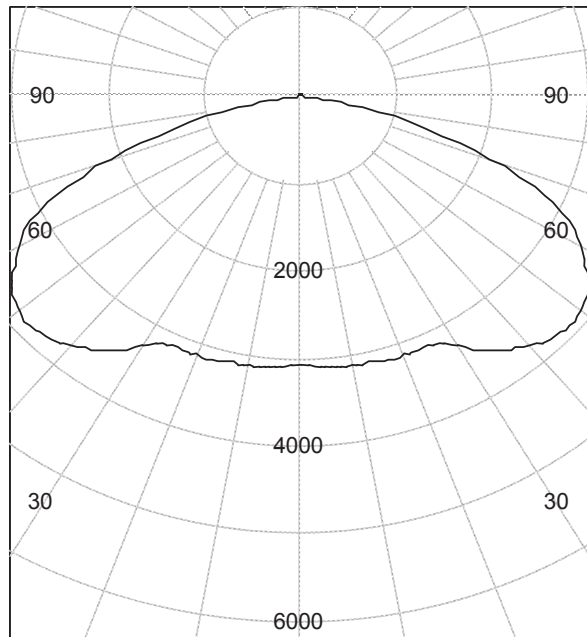
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Polar curve through L90 / L270

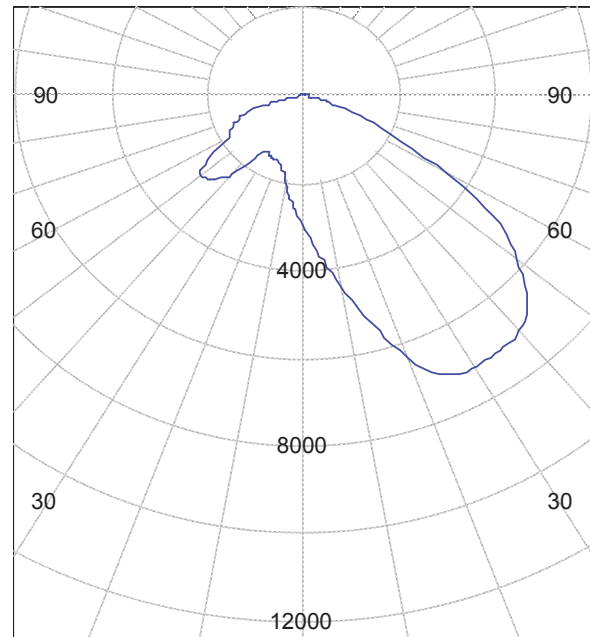


(L90)

(cd)

(L270)

Polar curve through L0 / L180



House side (L180)

(cd)

Street side (L0)



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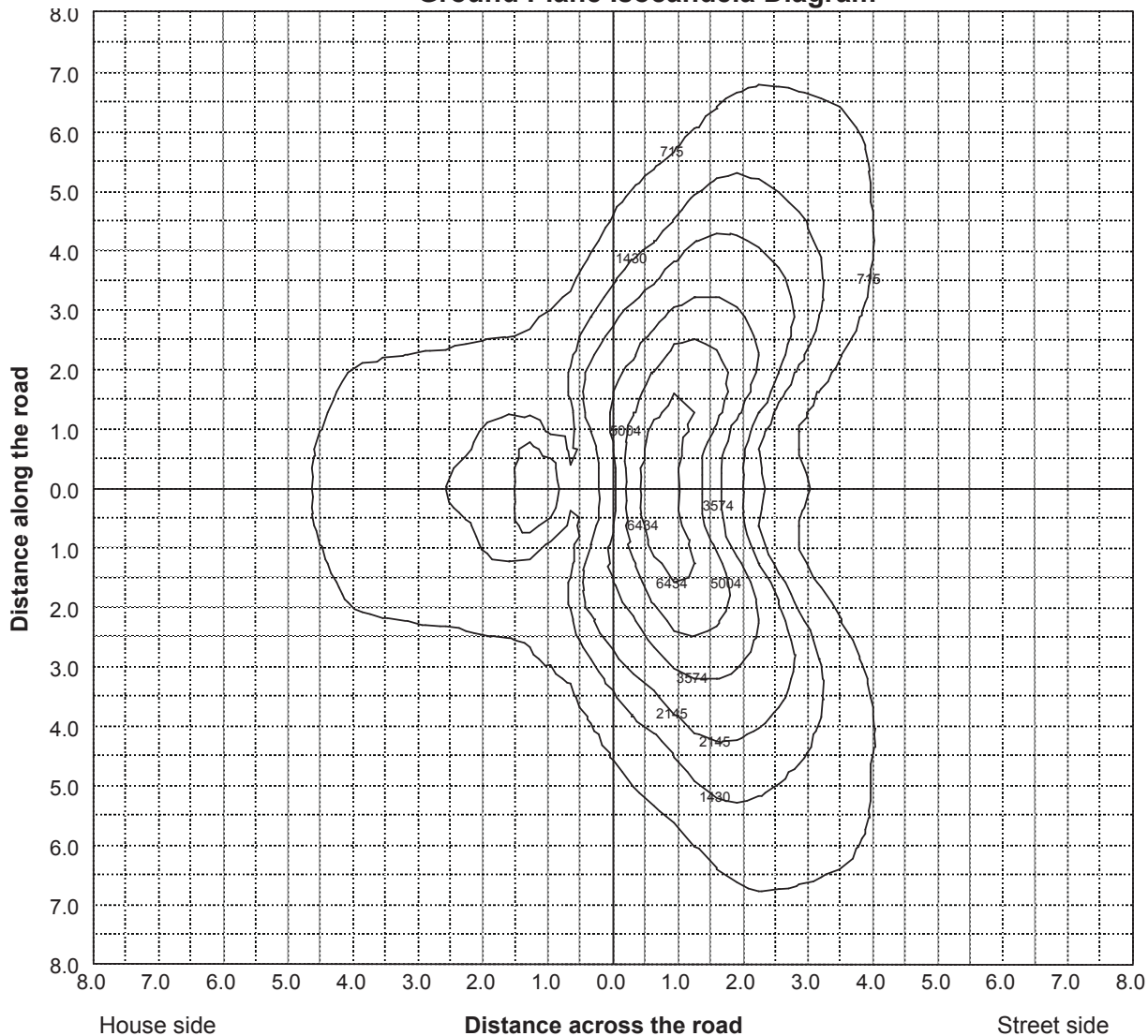
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Ground Plane Isocandela Diagram



The isocandela contour units are expressed as cd

Upstream and downstream sides have been averaged.



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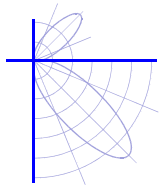
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Intensity data (cd)

Vertical	L-Plane								
	L0	L15	L30	L40	L45	L50	L55	L60	L65
0.0	3068	3068	3068	3068	3068	3068	3068	3068	3068
10.0	4405	4374	4270	4150	4078	3990	3899	3799	3692
20.0	6359	6253	6023	5729	5501	5227	4945	4661	4381
30.0	7147	7131	6983	6736	6511	6199	5898	5542	5121
35.0	7105	7143	7101	7033	6874	6640	6318	5954	5533
40.0	6998	7005	7009	7145	7005	6829	6566	6179	5782
45.0	6561	6665	6842	7127	7060	6916	6714	6413	5994
47.5	6211	6323	6762	7096	7051	6956	6780	6504	6070
50.0	5791	5925	6593	7030	7031	6976	6838	6546	6102
52.5	5373	5517	6293	6931	6989	6986	6877	6568	6101
55.0	4793	5058	5993	6773	6945	6964	6882	6573	6087
57.5	4101	4462	5596	6525	6762	6879	6827	6556	6050
60.0	3194	3617	5125	6199	6543	6706	6696	6482	5999
62.5	2368	2711	4509	5844	6238	6437	6483	6363	5961
65.0	1798	1889	3676	5381	5847	6093	6216	6197	5885
67.5	1334	1254	2683	4801	5325	5617	5835	5833	5590
70.0	886	847	1817	3950	4624	4949	5146	5208	5054
72.5	652	616	1186	2728	3580	4068	4275	4408	4336
75.0	531	465	778	1773	2435	2972	3271	3395	3306
77.5	465	327	512	1045	1502	1902	2116	2266	2297
80.0	320	228	316	519	717	950	1232	1351	1421
82.5	179	151	180	259	315	380	523	629	627
85.0	88	84	86	96	101	110	128	149	143
87.5	13	14	11	9	8	8	7	7	7
90.0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0



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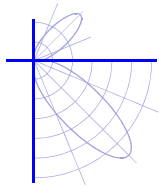
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Operating at 120v AC and 60 Hz.

Intensity data (cd)

Vertical	L-Plane								
	L70	L75	L80	L85	L90	L95	L100	L105	L110
0.0	3068	3068	3068	3068	3068	3068	3068	3068	3068
10.0	3577	3461	3349	3239	3125	3020	2917	2819	2729
20.0	4118	3862	3619	3386	3156	2943	2734	2538	2354
30.0	4717	4347	4003	3660	3297	2943	2597	2306	2061
35.0	5072	4642	4261	3906	3550	3182	2747	2323	1985
40.0	5322	4855	4451	4079	3722	3348	2900	2426	1972
45.0	5523	5028	4599	4204	3834	3445	2976	2480	1967
47.5	5570	5057	4624	4230	3854	3458	2981	2475	1944
50.0	5579	5050	4598	4204	3832	3445	2968	2459	1911
52.5	5573	5005	4540	4150	3784	3410	2939	2418	1859
55.0	5520	4942	4447	4049	3680	3319	2872	2352	1785
57.5	5438	4827	4304	3897	3535	3183	2758	2262	1703
60.0	5380	4734	4177	3756	3386	3033	2612	2130	1595
62.5	5351	4668	4054	3588	3206	2847	2432	1925	1447
65.0	5255	4493	3799	3291	2907	2519	2051	1636	1248
67.5	4982	4182	3473	3005	2548	2044	1672	1336	1052
70.0	4613	3817	3116	2618	2097	1690	1329	1021	866
72.5	3945	3155	2440	2035	1648	1244	902	699	708
75.0	3024	2407	1820	1546	1171	824	554	518	554
77.5	2171	1837	1304	1006	736	467	363	377	405
80.0	1417	1168	744	582	421	254	238	252	265
82.5	597	479	318	284	212	142	144	151	159
85.0	122	100	86	84	76	66	67	71	78
87.5	7	8	8	8	9	9	10	12	14
90.0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0



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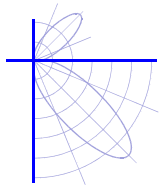
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Intensity data (cd)

Vertical	L-Plane								
	L115	L120	L125	L130	L135	L140	L150	L165	L180
0.0	3068	3068	3068	3068	3068	3068	3068	3068	3068
10.0	2646	2571	2498	2432	2375	2320	2230	2140	2108
20.0	2189	2053	1934	1827	1743	1677	1607	1587	1587
30.0	1855	1661	1524	1466	1460	1462	1482	1499	1513
35.0	1714	1521	1418	1396	1399	1406	1429	1546	1642
40.0	1608	1416	1348	1338	1351	1385	1501	2074	2313
45.0	1526	1338	1289	1286	1322	1451	1825	2540	2669
47.5	1491	1307	1265	1266	1324	1510	2025	2666	2766
50.0	1454	1281	1240	1244	1335	1573	2162	2718	2816
52.5	1417	1250	1209	1216	1346	1632	2238	2668	2683
55.0	1375	1214	1169	1187	1352	1663	2236	2412	2285
57.5	1316	1164	1119	1152	1349	1656	2143	2055	1958
60.0	1235	1104	1065	1109	1326	1583	1953	1790	1806
62.5	1138	1033	1000	1054	1268	1452	1727	1607	1751
65.0	1029	947	931	996	1170	1294	1510	1508	1634
67.5	911	857	877	923	1044	1132	1302	1349	1500
70.0	780	767	801	838	903	971	1149	1226	1404
72.5	659	646	688	731	754	829	964	1166	1276
75.0	526	520	552	584	617	683	824	965	1001
77.5	388	401	416	440	476	536	674	726	740
80.0	271	286	293	312	343	393	495	525	521
82.5	167	179	188	202	223	255	318	346	343
85.0	83	88	97	107	120	137	174	204	199
87.5	15	18	22	25	27	33	54	79	82
90.0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0



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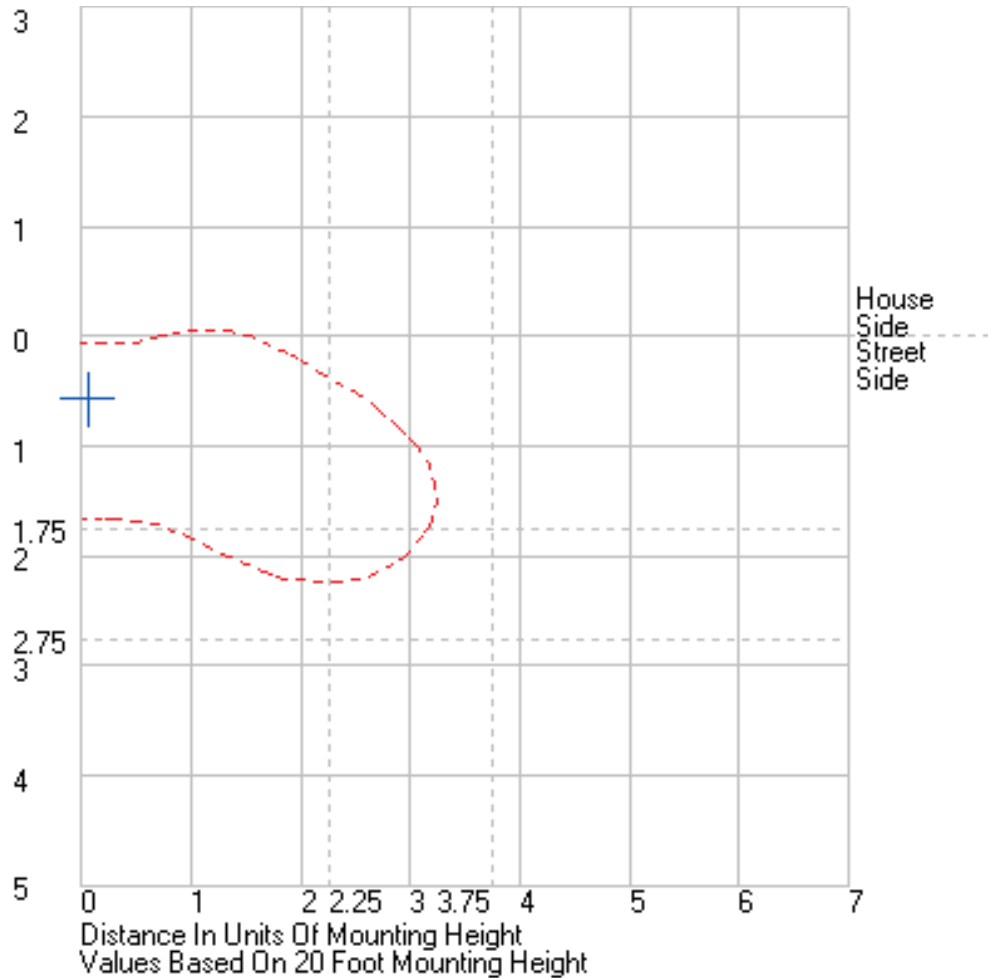
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LM-79 Performance Data

Spectral	CIE 1931 (x, y) ⁽¹⁾	(0.384, 0.382)
	CIE 1976 (u', v') ⁽¹⁾	(0.225, 0.504)
	Correlated Color Temperature (CCT) ⁽¹⁾	3950 K
	Spatial Δ (u', v') Uniformity ⁽²⁾	2.99E-03
	Color Rendering Index (Ra) ⁽¹⁾	71.3
	Special CRI 9 (R ₉) ^{(1),(3)}	-36.3
	Distance from Planckian Locus (Duv) ^{(1),(3)}	1.55E-03
	Scotopic/Photopic Ratio ^{(1),(3)}	1.50

Electrical	Voltage	120.0 V	(Setpoint 1)
	Frequency	60.0 Hz	
	Current	0.948 A	
	Power	113 W	
	Power Factor	1.00	
	Current THD	3.0 %	
	Voltage	277.0 V	(Setpoint 2)
	Frequency	60.0 Hz	
	Current	0.423 A	
	Power	111 W	
	Power Factor	0.95	
	Current THD	6.0 %	

Performance data in accordance with IESNA LM-79-08. Spectral calculations are for a CIE 2° observer
Photometric and spectral values were measured at Setpoint 1

(1) Value is computed from the weighted average of the spatial measurements

(2) Value is the maximum deviation of the spatial u' and v' measurements from the weighted average

(3) Quantity is in addition to the scope of IESNA LM-79-08



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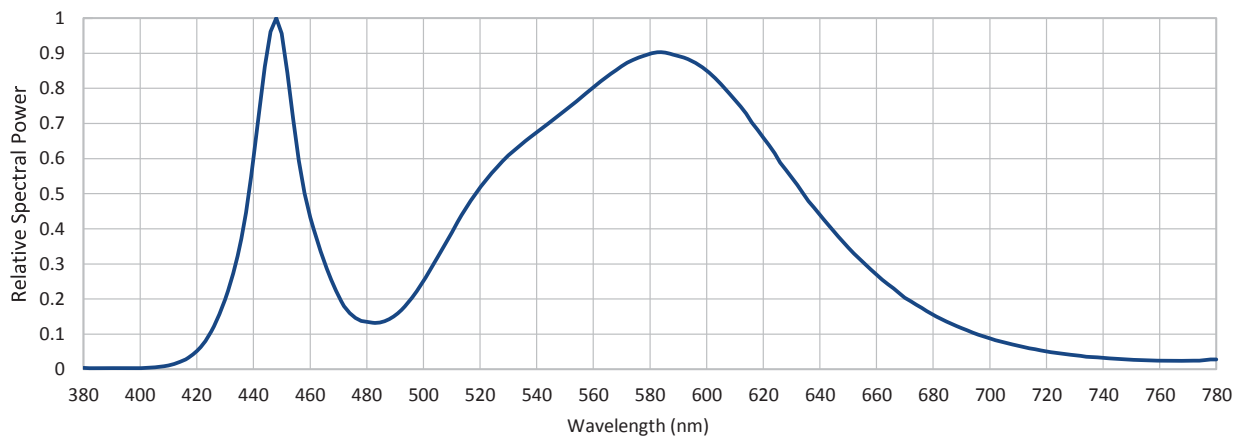
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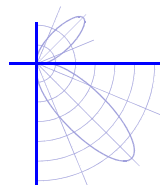
LM-79 Performance Data

Relative spectral power distribution

(Relative to peak = 1, weighted average of spatial measurements)

λ (nm)	Relative Power	λ (nm)	Relative Power	λ (nm)	Relative Power	λ (nm)	Relative Power	λ (nm)	Relative Power
380	0.004	460	0.433	540	0.675	620	0.660	700	0.088
385	0.003	465	0.307	545	0.705	625	0.602	705	0.077
390	0.003	470	0.208	550	0.737	630	0.547	710	0.067
395	0.003	475	0.153	555	0.770	635	0.490	715	0.058
400	0.003	480	0.135	560	0.803	640	0.441	720	0.051
405	0.005	485	0.135	565	0.835	645	0.391	725	0.045
410	0.011	490	0.154	570	0.863	650	0.348	730	0.040
415	0.025	495	0.194	575	0.885	655	0.306	735	0.036
420	0.052	500	0.252	580	0.898	660	0.270	740	0.032
425	0.108	505	0.319	585	0.902	665	0.236	745	0.030
430	0.199	510	0.389	590	0.892	670	0.204	750	0.028
435	0.347	515	0.458	595	0.877	675	0.179	755	0.026
440	0.600	520	0.517	600	0.850	680	0.155	760	0.025
445	0.911	525	0.567	605	0.813	685	0.135	765	0.025
450	0.956	530	0.609	610	0.767	690	0.117	770	0.024
455	0.654	535	0.643	615	0.715	695	0.101	775	0.026
								780	0.028





Test Report No. LLI-19120-8

LED Roadway Lighting - Roadway luminaire. Product ID: L6 60M 5 X G3M 3 X XX 4 XX X X
Grey cast aluminum housing with clear flat glass array lenses.
60 LEDs in three 4 x 5 arrays with clear plastic sheets of individual lenses.
One Osram Optotronic LED driver. Model: OT180W/UNV/1250C/2DIMLT2/P6 set to 900ma.
Operating at 120v AC and 60 Hz.

LM-79 Performance Data

Spatial measurements

Vert. angle (°)	CIE 1976 (u',v') coordinates	
	Horiz. 0.0° plane	Horiz. ° plane
0.0	(0.225, 0.505)	(0.225, 0.505)
10.0	(0.225, 0.505)	(0.225, 0.505)
20.0	(0.225, 0.506)	(0.225, 0.504)
30.0	(0.225, 0.506)	(0.225, 0.503)
40.0	(0.226, 0.507)	(0.225, 0.503)
50.0	(0.224, 0.502)	(0.225, 0.503)
60.0	(0.225, 0.504)	(0.225, 0.506)
70.0	(0.226, 0.507)	(0.224, 0.504)
80.0	I <= 10% peak	I <= 10% peak
-	-	-

Spatial measurements

Vert. angle (°)	CIE 1976 (u',v') coordinates	
	Horiz. 0.0° plane	Horiz. ° plane
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Test procedure

All measurements were performed in an environmentally controlled laboratory employing suitable baffling to minimize stray light. The sample was mounted in its normal operating orientation on a rotating mirror goniophotometer and operated from a stabilized supply. The photometric output was monitored and measurements were performed once stability was achieved.

The goniophotometer was used to measure the spatial distribution of both luminous intensity and, in conjunction with a spectroradiometer, spectral irradiance. The distribution locus comprises points in two or more planes (as indicated in the table above) at no more than 10° vertical intervals. The CIE (x,y) coordinates and other derived metrics (CIE (u', v'), CCT and CRI) are calculated from the weighted sum (weighted for intensity and represented solid angle) of the measured spectral irradiances.

Sample Orientation

Horizontal

Stabilization & total operation time 1.25 / 3.25 hours

Equipment and uncertainties

LightLab International R80A C-gamma rotating mirror goniophotometer with a test distance of 8 m.

Luminous Intensity	± 4 %	Temperature	± 1 °C
Luminous Flux	± 4 %	Luminous Efficacy	± 4.5 %
Horiz., Vert. Angles	± 0.25°		

PhotoResearch PR-670 spectroradiometer (grating with 380 - 780 nm range, 2 nm / pixel, 5 nm bandwidth, incandescent/halogen calibration source). Measured at a distance from the sample deemed >5 times the maximum observed luminous opening dimension.

CIE (x, y) coordinates	± 0.003	CCT	± 100 K
CIE (u', v') coordinates	± 0.002	CRI (Ra)	± 2
Spatial Δ (u', v') uniformity	± 0.001	Scotopic / Photopic Ratio *	± 0.02
Rel. Spectral Irradiance *	± 2 %	R9 *	± 2
Duv *	± 5E-04		

Yokogawa WT210 power meter connected in circuit to the sample electrical supply

Voltage	± 0.5 %	Frequency *	± 0.1 Hz
Current	± 0.5 %	Power	± 0.5 %
Current THD *	± 3 %	Power Factor	± 0.02

This report contains data that are not covered by the NVLAP accreditation. Quantities marked with * are not covered.

Calculator / report version 1.0.10 / 5.9 (14th Dec 2017)

Page 14 of 16



Test Report No. LLI-19120-8

LED Roadway Lighting - Roadway luminaire. Product ID: L6 60M 5 X G3M 3 X XX 4 XX X X

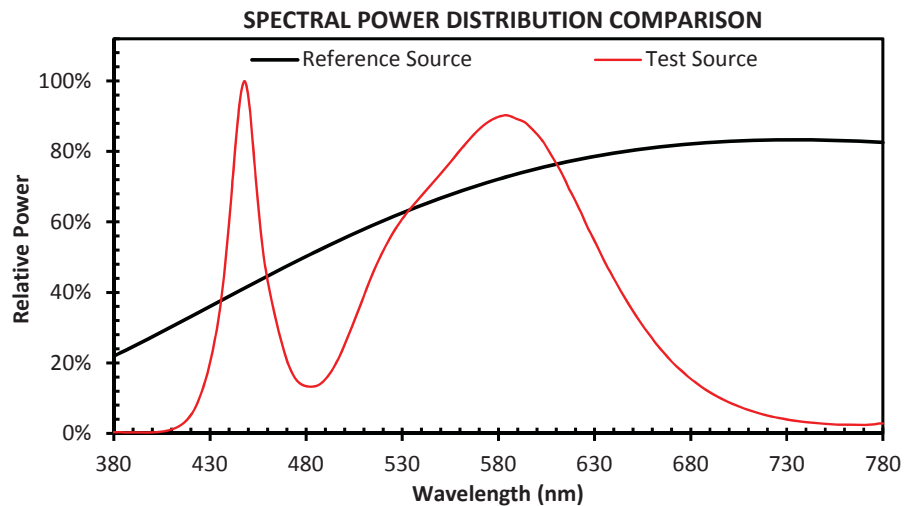
Grey cast aluminum housing with clear flat glass array lenses.

60 LEDs in three 4 x 5 arrays with clear plastic sheets of individual lenses.

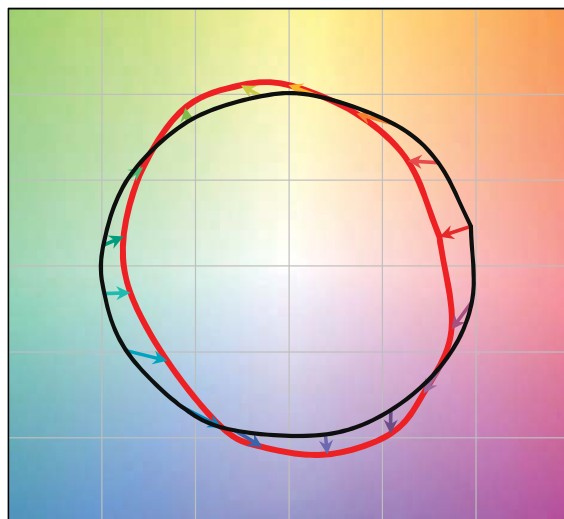
One Osram Optotronic LED driver. Model: OT180W/UNV/1250C/2DIMLT2/P6 set to 900ma.

Operating at 120v AC and 60 Hz.

R_f	71
R_g	93



COLOR VECTOR GRAPHIC



— Test Source

→ Series1

COLOR DISTORTION GRAPHIC





Test Report No. LLI-19120-8

LED Roadway Lighting - Roadway luminaire. Product ID: L6 60M 5 X G3M 3 X XX 4 XX X X
Grey cast aluminum housing with clear flat glass array lenses.
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One Osram Optotronic LED driver. Model: OT180W/UNV/1250C/2DIMLT2/P6 set to 900ma.
Operating at 120v AC and 60 Hz.

Test Distance 8.0 m
Test Temperature 25.3 °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-79-08 (Sec. 12), IES LM-16-93, IES LM-58-13, CIE 13.3:1995, CIE 15:2004, ANSI C78.377:2015, ANSI C82.77-10:2014.

The luminous intensity values, 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.

Photometric intensity values are reported using the IESNA Type C coordinate system (L, V) as defined in IESNA publication LM-75.

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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.