



Report of Test LLI-19120-1

LED Roadway Lighting - Roadway luminaire. Product ID: L6 16S 5 X 2ES W X XX 4 XX X X

Grey painted cast aluminum housing with no lens.

16 LEDs in one 4 x 4 array with clear plastic sheet of individual lenses.

One Osram power supply. Model: OT 50/120-277/1A2 2DIMLT2 P set to 600ma.

Operating at 120v AC and 60 Hz.



Performance Summary

Total Light Output	4594 lm	Min Power Factor	0.89 @ 277 V
Luminaire Power	33.4 W	Max THD(i)*	15.0 % @ 277 V
Luminous Efficacy	137.5 lm/W	0-90° Zonal Flux %	100.0 %
CCT	3950 K	80-90° Zonal Flux %	1.6 %
CIE(x,y) 1931	(0.382, 0.378)	BUG Rating*	B1-U0-G1
CRI	72	Street Classification*	Type II Short

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



LightLab
INTERNATIONAL

LightLab International, LLC
Phoenix AZ 85085



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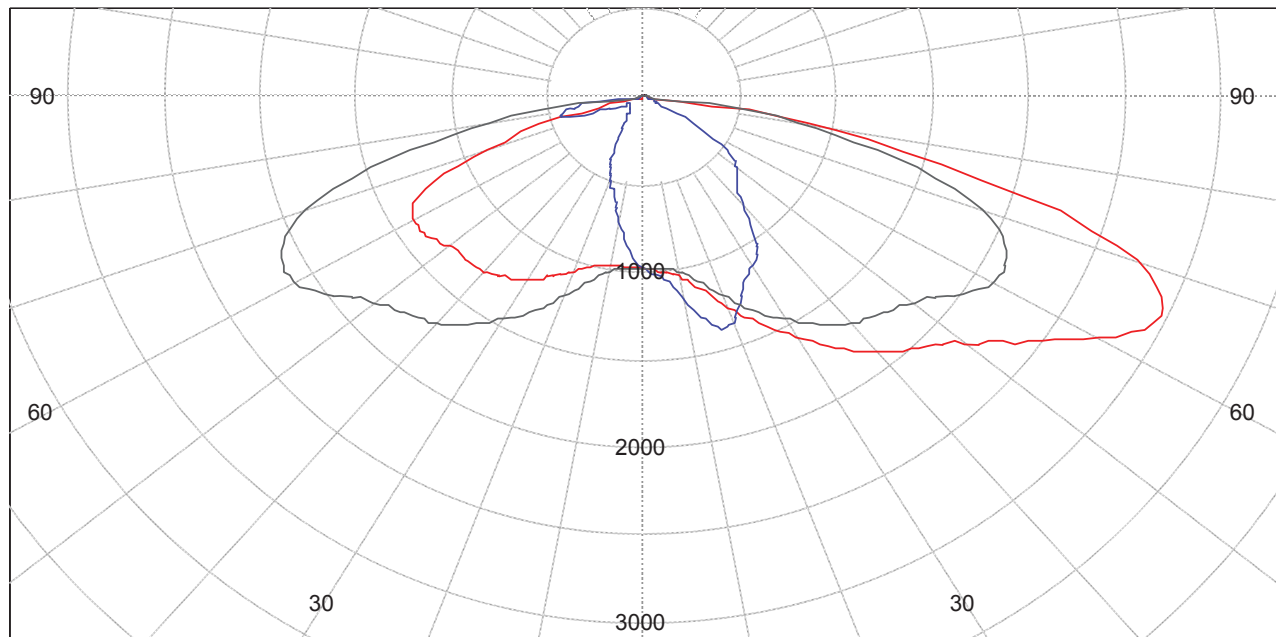
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Polar Light Distribution Curves



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 %	69.0 %	69.0 %
House Side	0.0 %	31.0 %	31.0 %
	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

2-May-2019
2-May-2019



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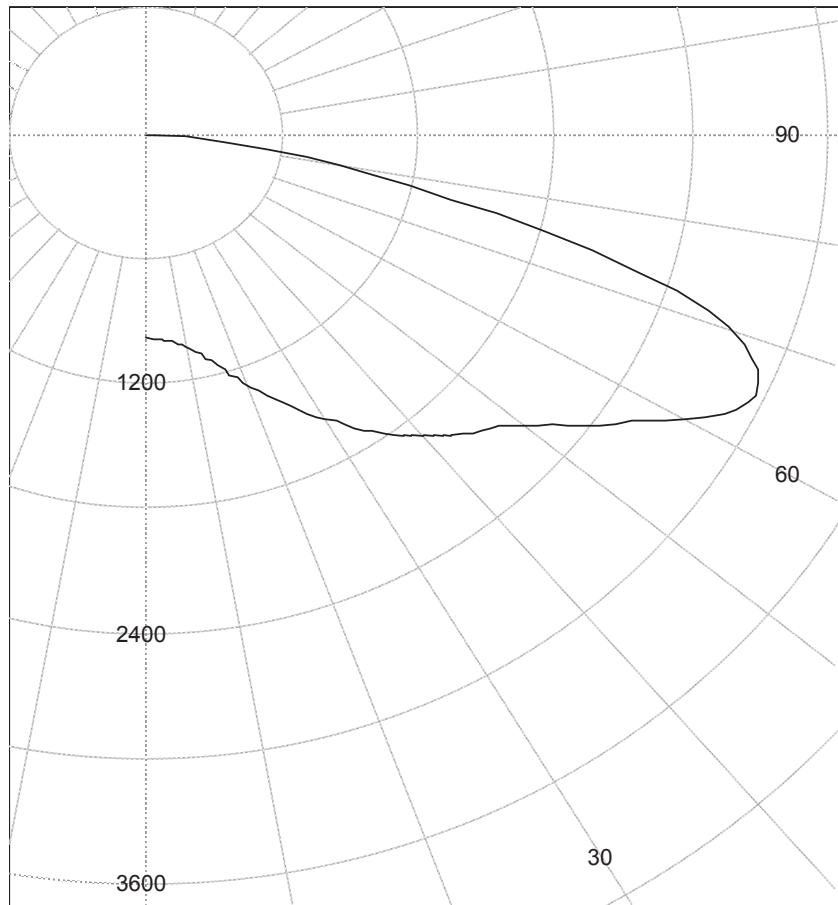
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Intensity in principal plane
(based on overall max intensity)

Vertical Angle (°)	Intensity (cd)
0.0	979.7
10.0	1037.6
20.0	1274.2
30.0	1585.2
35.0	1747.8
40.0	1898.1
45.0	2026.7
47.5	2085.6
50.0	2182.6
52.5	2298.0
55.0	2439.1
57.5	2575.1
60.0	2743.4
62.5	2898.8
65.0	2955.6
67.5	2904.5
70.0	2731.8
72.5	2358.6
75.0	1817.6
77.5	1280.1
80.0	872.8
82.5	444.5
85.0	36.1
87.5	3.7
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
2118.2 cd @ (90.0°, 62.0°)

Street side max intensity
2955.6 cd @ (75.0°, 64.5°)

Coordinates expressed in the C Type coordinate system

Data for the two symmetric halves of the luminaire has been averaged.



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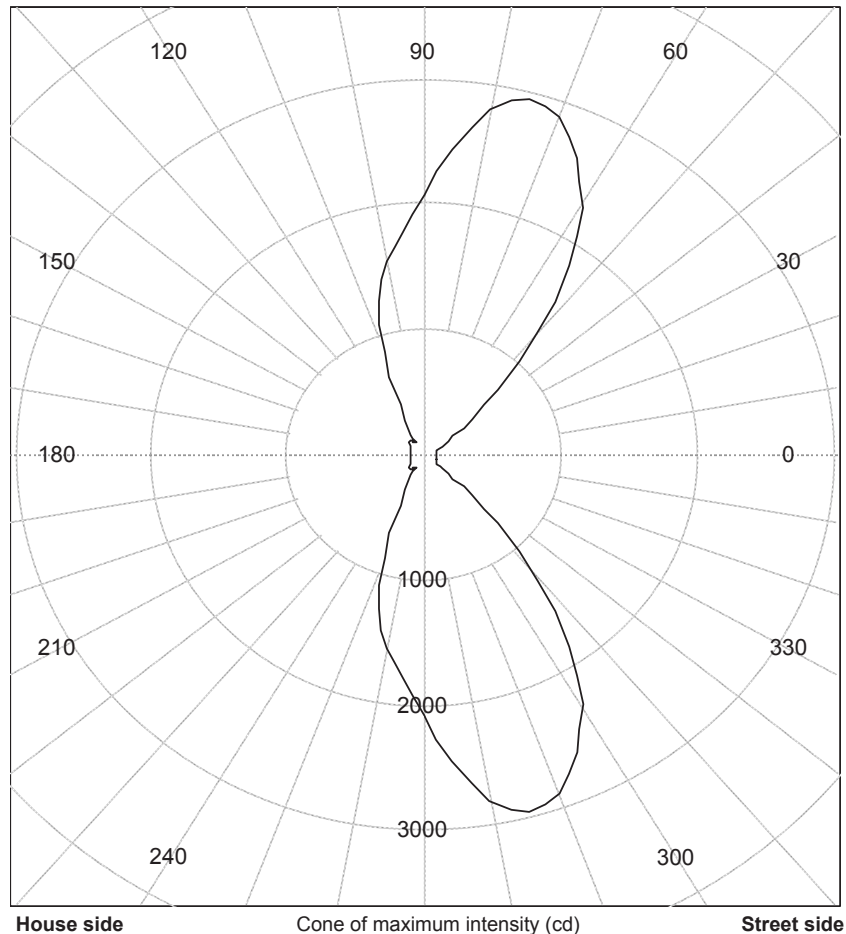
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Intensity in principal cone
(based on overall max intensity)

Lateral Plane (°)	(V64.5) (cd)
0	83.1
15	87.2
30	158.3
40	449.2
45	750.8
50	1275.0
55	1856.7
60	2287.7
65	2630.2
70	2866.3
75	2955.6
80	2805.1
85	2464.5
90	2086.7
95	1791.1
100	1566.7
105	1283.9
110	880.4
115	442.7
120	184.8
125	123.1
130	140.5
135	155.3
140	152.5
150	114.3
165	101.0
180	104.8

Principal Conical Surface



House side

Cone of maximum intensity (cd)

Street side

House side max intensity
2118.2 cd @ (90.0°, 62.0°)

Street side max intensity
2955.6 cd @ (75.0°, 64.5°)

Coordinates expressed in the C Type coordinate system

Data for the two symmetric halves of the luminaire has been averaged.



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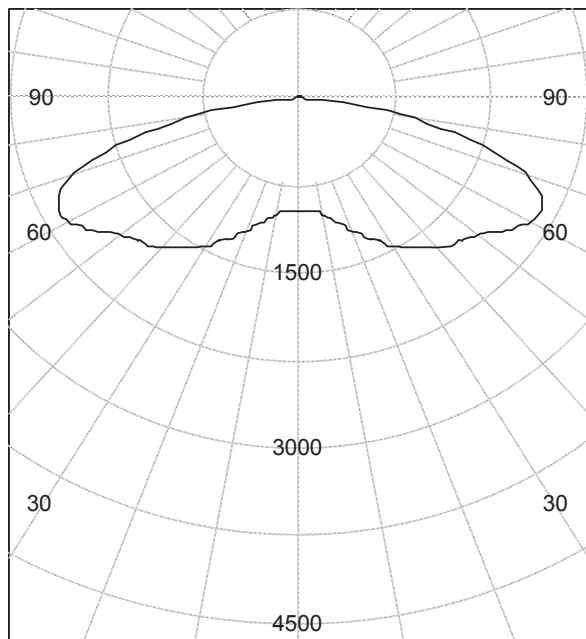
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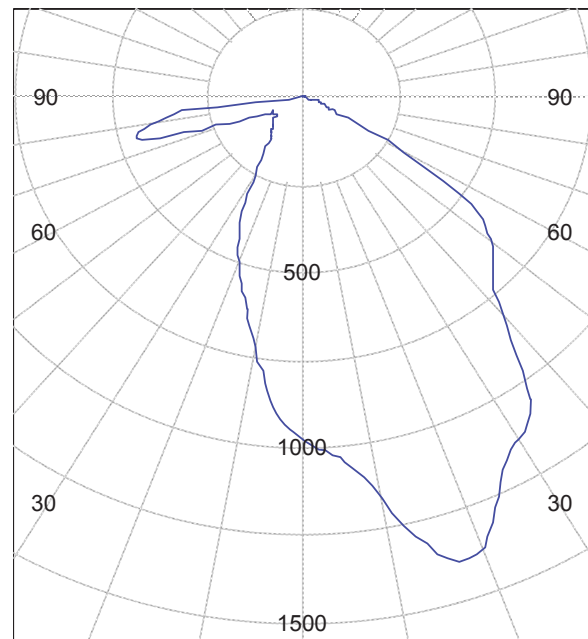
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Polar curve through L90 / L270



(L90) (cd) (L270)

Polar curve through L0 / L180



House side (L180) (cd) Street side (L0)



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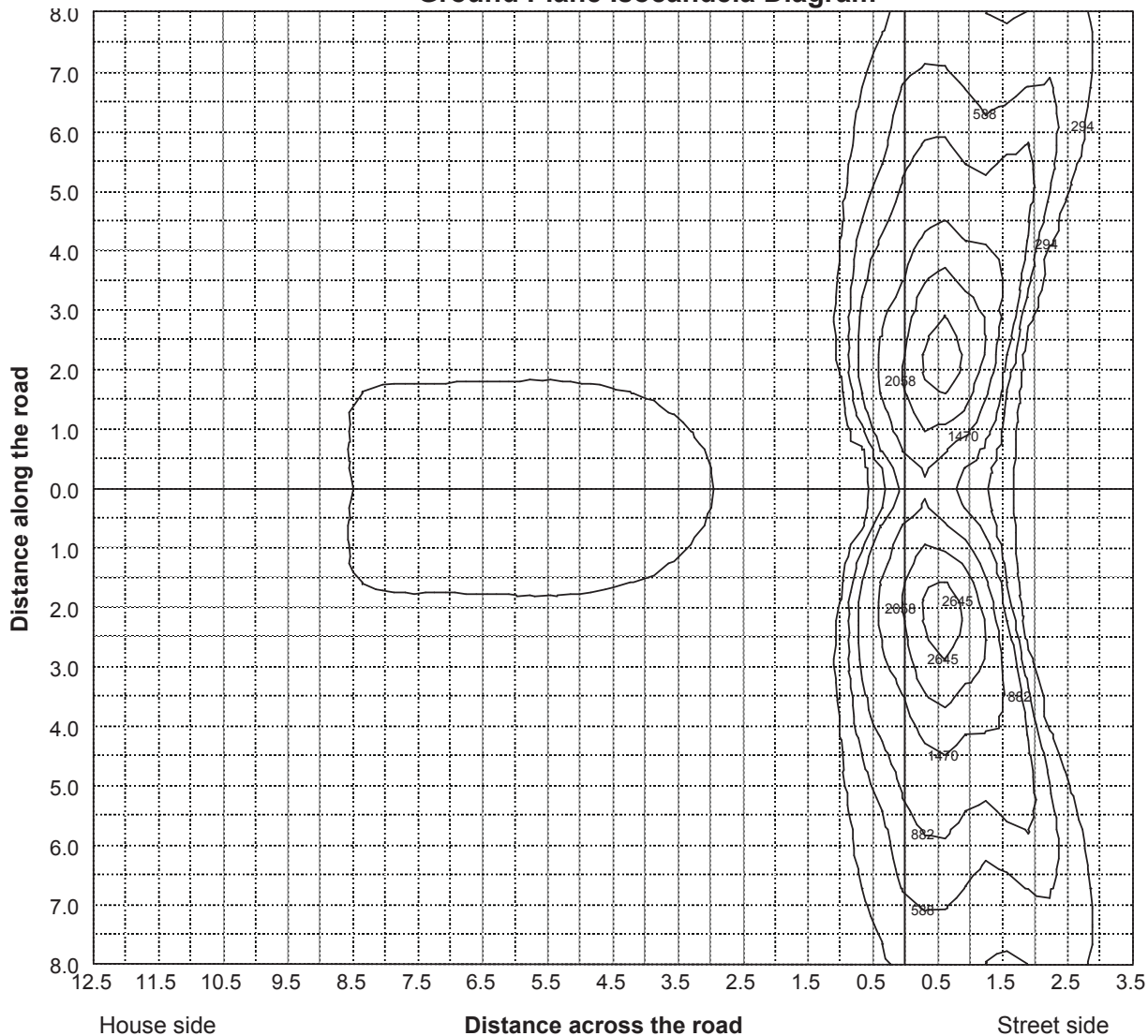
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Ground Plane Isocandela Diagram



The isocandela contour units are expressed as cd

Upstream and downstream sides have been averaged.

RT



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Intensity data (cd)

Vertical	L-Plane								
	L0	L15	L30	L40	L45	L50	L55	L60	L65
0.0	980	980	980	980	980	980	980	980	980
10.0	1162	1140	1114	1089	1079	1068	1061	1055	1049
20.0	1366	1380	1419	1440	1430	1414	1385	1348	1317
30.0	1122	1149	1285	1464	1563	1644	1700	1717	1690
35.0	1009	1071	1228	1401	1516	1638	1750	1818	1843
40.0	805	900	1155	1372	1496	1627	1767	1885	1952
45.0	696	782	1057	1367	1529	1669	1802	1926	2026
47.5	665	751	1016	1355	1546	1714	1844	1971	2080
50.0	631	708	981	1338	1569	1768	1907	2035	2152
52.5	589	647	929	1305	1581	1814	1985	2133	2258
55.0	528	573	841	1234	1543	1822	2045	2217	2359
57.5	402	458	730	1125	1448	1781	2065	2290	2461
60.0	247	294	549	964	1295	1693	2033	2325	2577
62.5	113	142	316	694	1036	1528	1975	2330	2644
65.0	80	83	127	394	680	1189	1811	2269	2614
67.5	65	68	70	147	340	723	1445	2091	2476
70.0	52	57	61	69	110	307	896	1736	2256
72.5	45	47	54	56	62	89	307	1179	1928
75.0	46	47	44	47	45	54	68	579	1441
77.5	42	46	31	42	36	38	48	129	849
80.0	32	44	22	27	30	24	28	44	437
82.5	12	19	11	13	13	12	13	18	143
85.0	3	3	3	3	3	3	4	5	19
87.5	1	1	1	1	1	2	2	2	2
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

RT



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Intensity data (cd)

Vertical	L-Plane								
	L70	L75	L80	L85	L90	L95	L100	L105	L110
0.0	980	980	980	980	980	980	980	980	980
10.0	1045	1038	1030	1021	1013	1000	984	967	946
20.0	1293	1274	1253	1236	1212	1174	1124	1059	984
30.0	1637	1585	1545	1509	1464	1400	1309	1200	1076
35.0	1814	1748	1693	1642	1582	1498	1387	1258	1123
40.0	1953	1898	1831	1765	1683	1574	1438	1295	1155
45.0	2064	2027	1944	1857	1750	1617	1465	1309	1165
47.5	2122	2086	2002	1900	1779	1634	1466	1310	1161
50.0	2209	2183	2090	1969	1830	1660	1481	1321	1160
52.5	2322	2298	2196	2054	1886	1697	1512	1345	1171
55.0	2445	2439	2341	2171	1967	1751	1558	1385	1171
57.5	2570	2575	2478	2286	2042	1803	1593	1393	1131
60.0	2722	2743	2626	2401	2103	1837	1614	1384	1070
62.5	2844	2899	2744	2448	2117	1832	1612	1355	985
65.0	2854	2956	2809	2466	2080	1774	1550	1258	846
67.5	2736	2905	2823	2452	2011	1680	1434	1080	631
70.0	2522	2732	2754	2388	1872	1554	1292	864	409
72.5	2179	2359	2519	2218	1645	1346	1084	618	237
75.0	1822	1818	2081	1908	1368	1075	792	332	105
77.5	1439	1280	1420	1426	1066	771	485	133	54
80.0	970	873	817	976	812	482	197	35	30
82.5	422	444	332	477	427	212	40	15	18
85.0	37	36	26	41	44	22	7	7	9
87.5	3	4	3	4	4	4	3	3	3
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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Intensity data (cd)

Vertical	L-Plane								
	L115	L120	L125	L130	L135	L140	L150	L165	L180
0.0	980	980	980	980	980	980	980	980	980
10.0	921	897	874	852	828	806	772	735	726
20.0	906	826	757	701	654	614	561	516	500
30.0	961	850	747	649	554	471	358	280	257
35.0	994	870	741	605	471	358	238	174	159
40.0	1016	874	703	519	345	229	149	136	134
45.0	1011	832	615	375	195	135	130	123	114
47.5	993	790	541	286	144	128	129	119	106
50.0	967	730	447	216	128	127	131	119	102
52.5	941	653	355	166	130	134	131	116	96
55.0	887	553	275	144	136	141	130	109	91
57.5	792	446	209	136	142	146	125	99	88
60.0	683	341	160	135	148	151	121	98	87
62.5	562	252	132	139	154	155	117	99	90
65.0	411	169	122	140	155	151	114	104	112
67.5	261	117	117	141	156	144	112	133	169
70.0	149	97	110	139	150	136	110	191	242
72.5	100	82	103	133	139	129	111	267	358
75.0	70	67	93	122	127	124	122	376	453
77.5	45	51	76	102	110	114	165	370	435
80.0	29	37	55	73	79	95	177	330	389
82.5	19	23	33	44	53	70	140	275	331
85.0	9	10	14	15	18	16	42	89	127
87.5	3	3	3	3	3	4	4	3	3
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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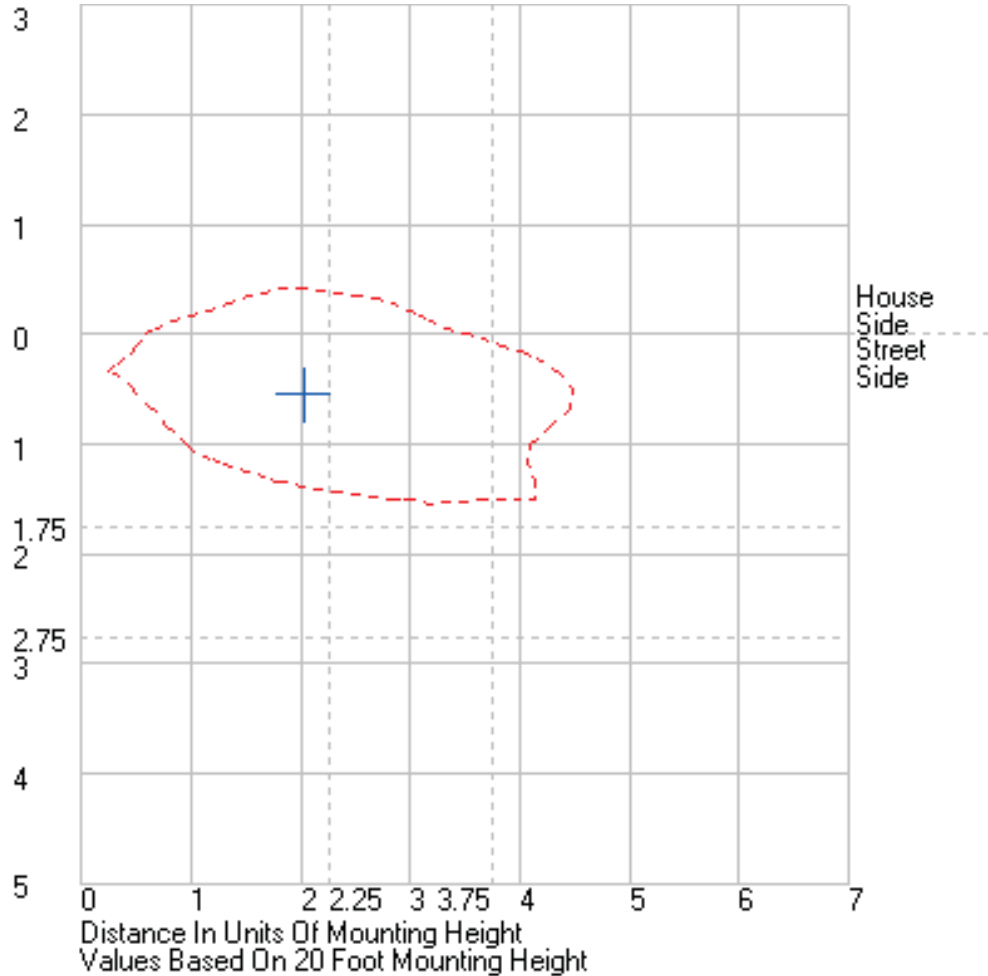
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LM-79 Performance Data

Spectral	CIE 1931 (x, y) ⁽¹⁾	(0.382, 0.378)
	CIE 1976 (u', v') ⁽¹⁾	(0.226, 0.502)
	Correlated Color Temperature (CCT) ⁽¹⁾	3950 K
	Spatial Δ (u', v') Uniformity ⁽²⁾	4.26E-03
	Color Rendering Index (Ra) ⁽¹⁾	72.0
	Special CRI 9 (R ₉) ^{(1),(3)}	-33.0
	Distance from Planckian Locus (Duv) ^{(1),(3)}	-1.03E-04
	Scotopic/Photopic Ratio ^{(1),(3)}	1.51

Electrical	Voltage	120.0 V	(Setpoint 1)
	Frequency	60.0 Hz	
	Current	0.281 A	
	Power	33.4 W	
	Power Factor	0.99	
	Current THD	7.5 %	
	Voltage	277.0 V	(Setpoint 2)
	Frequency	60.0 Hz	
	Current	0.134 A	
	Power	33.0 W	
	Power Factor	0.89	
	Current THD	15 %	

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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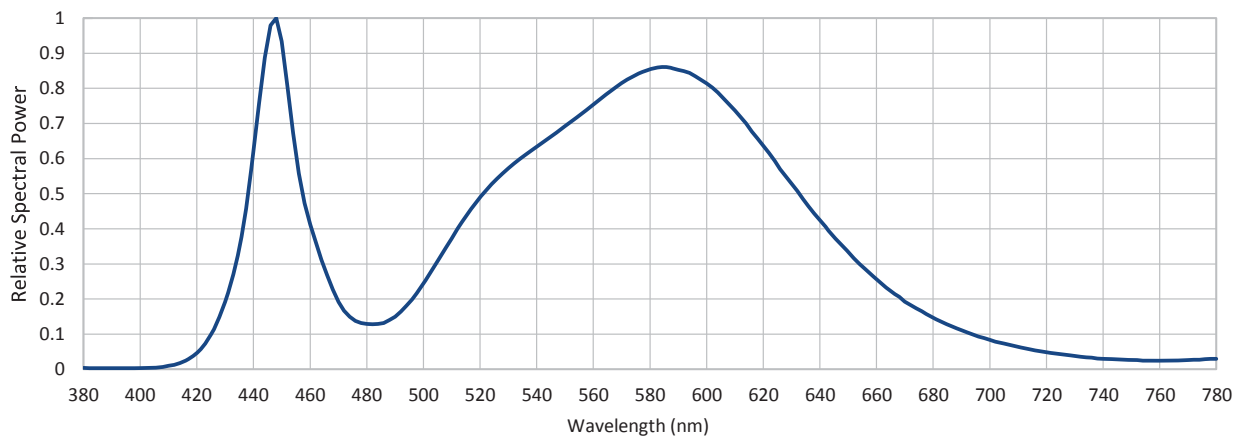
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LM-79 Performance Data

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	0.412	540	0.634	620	0.637	700	0.084
385	0.003	465	0.290	545	0.662	625	0.582	705	0.073
390	0.003	470	0.192	550	0.692	630	0.529	710	0.064
395	0.003	475	0.144	555	0.722	635	0.474	715	0.056
400	0.003	480	0.129	560	0.754	640	0.425	720	0.049
405	0.005	485	0.130	565	0.785	645	0.376	725	0.043
410	0.010	490	0.150	570	0.815	650	0.334	730	0.038
415	0.022	495	0.190	575	0.838	655	0.293	735	0.034
420	0.046	500	0.245	580	0.854	660	0.257	740	0.030
425	0.100	505	0.308	585	0.860	665	0.223	745	0.028
430	0.192	510	0.373	590	0.853	670	0.193	750	0.026
435	0.348	515	0.436	595	0.840	675	0.169	755	0.025
440	0.620	520	0.489	600	0.814	680	0.147	760	0.025
445	0.933	525	0.535	605	0.779	685	0.128	765	0.025
450	0.934	530	0.572	610	0.737	690	0.111	770	0.026
455	0.615	535	0.605	615	0.688	695	0.096	775	0.028
								780	0.030





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LM-79 Performance Data

Spatial measurements

Vert. angle (°)	CIE 1976 (u',v') coordinates	
	Horiz. 0.0° plane	Horiz. ° plane
0.0	(0.224, 0.499)	(0.224, 0.500)
10.0	(0.224, 0.500)	(0.226, 0.502)
20.0	(0.226, 0.503)	(0.224, 0.500)
30.0	(0.226, 0.503)	(0.226, 0.503)
40.0	(0.226, 0.503)	(0.225, 0.501)
50.0	(0.227, 0.503)	(0.225, 0.501)
60.0	(0.227, 0.503)	(0.225, 0.502)
70.0	(0.226, 0.503)	I <= 10% peak
80.0	(0.225, 0.498)	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 0.5 / 2.75 hours

Equipment and uncertainties

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

Luminous Intensity ± 4 %
Luminous Flux ± 4 %
Horiz., Vert. Angles ± 0.25°

Temperature ± 1 °C
Luminous Efficacy ± 4.5 %

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)

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Test Report No. LLI-19120-1

LED Roadway Lighting - Roadway luminaire. Product ID: L6 16S 5 X 2ES W X XX 4 XX X X

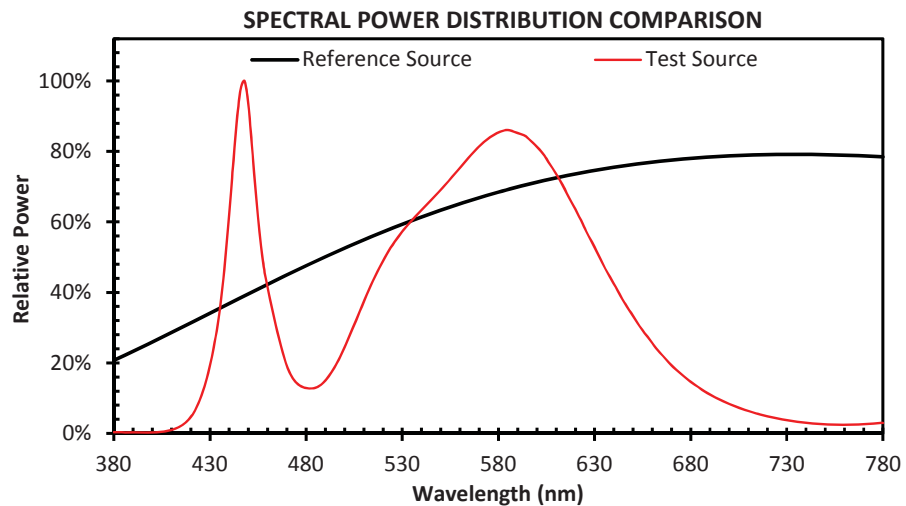
Grey painted cast aluminum housing with no lens.

16 LEDs in one 4 x 4 array with clear plastic sheet of individual lenses.

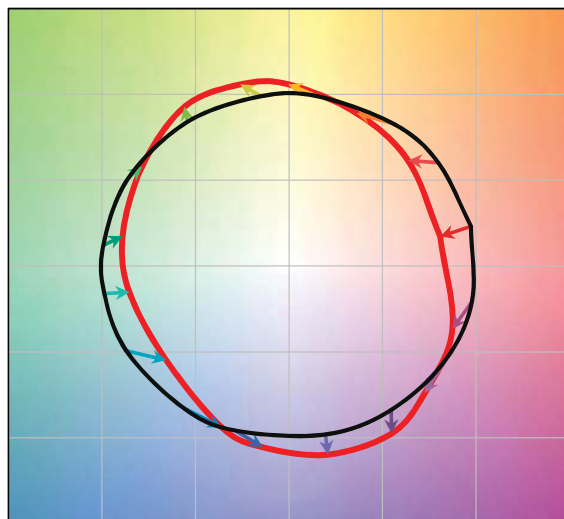
One Osram power supply. Model: OT 50/120-277/1A2 2DIMLT2 P set to 600ma.

Operating at 120v AC and 60 Hz.

R_f	71
R_g	94



COLOR VECTOR GRAPHIC



— Test Source

— Series1

COLOR DISTORTION GRAPHIC





Test Report No. LLI-19120-1

LED Roadway Lighting - Roadway luminaire. Product ID: L6 16S 5 X 2ES W X XX 4 XX X X

Grey painted cast aluminum housing with no lens.

16 LEDs in one 4 x 4 array with clear plastic sheet of individual lenses.

One Osram power supply. Model: OT 50/120-277/1A2 2DIMLT2 P set to 600ma.

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.