



Report of Test LLI-19150-10

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

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 1050ma.

Operating at 120v AC and 60 Hz. LED current set to 525ma.



Performance Summary

Total Light Output	7420 lm	Min Power Factor	0.95 @ 277 V
Luminaire Power	58.6 W	Max THD(i)*	11.0 % @ 277 V
Luminous Efficacy	126.6 lm/W	0-90° Zonal Flux %	100.0 %
CCT	4040 K	80-90° Zonal Flux %	1.6 %
CIE(x,y) 1931	(0.378, 0.374)	BUG Rating*	B2-U0-G2
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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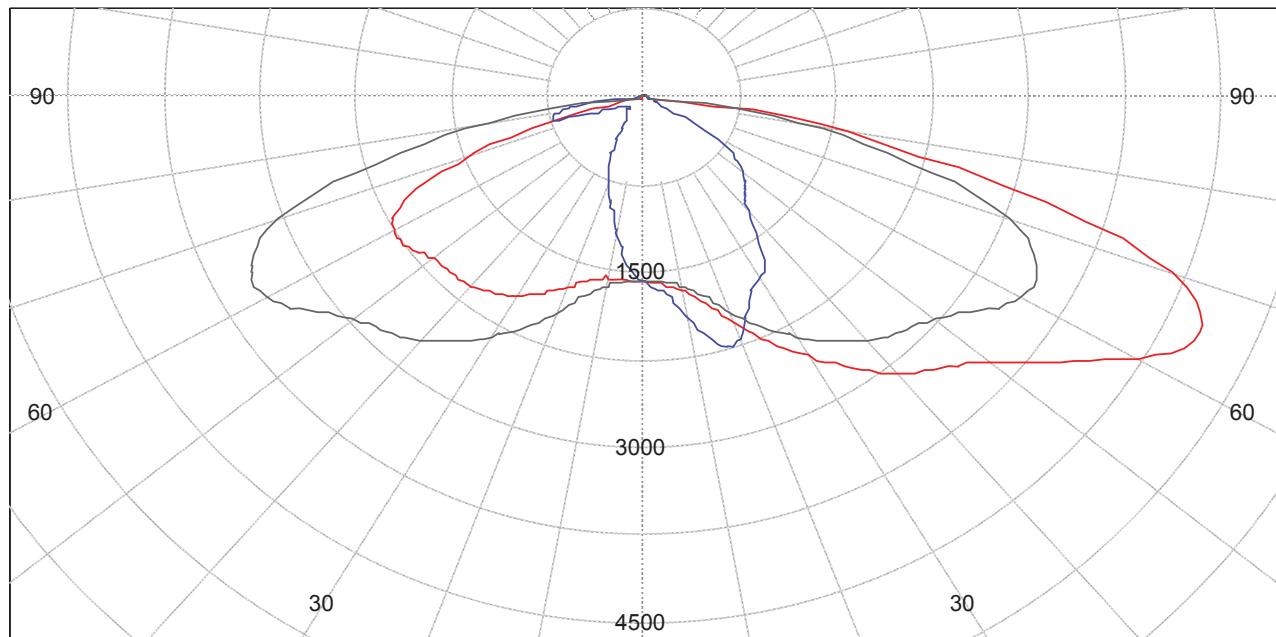
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Polar Light Distribution Curves



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 %	68.8 %	68.8 %
House Side	0.0 %	31.2 %	31.2 %
	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

24-Jun-2019
25-Jun-2019



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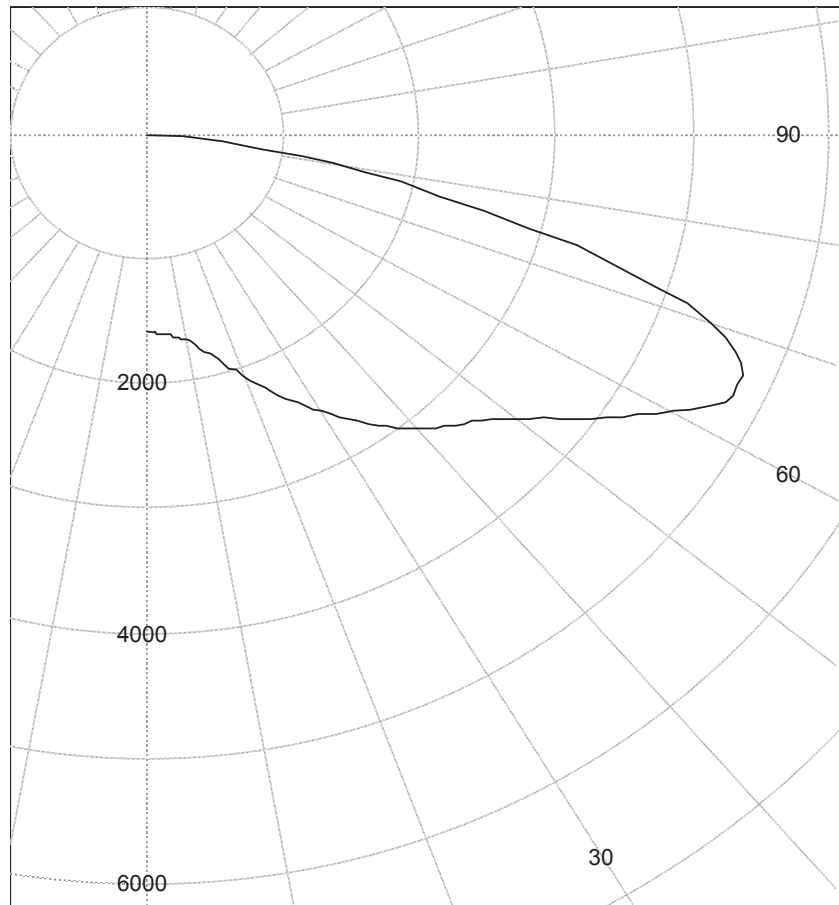
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Operating at 120v AC and 60 Hz. LED current set to 525ma.

Intensity in principal plane
(based on overall max intensity)

Vertical Angle (°)	Intensity (cd)
0.0	1587.1
10.0	1676.8
20.0	2062.7
30.0	2566.7
35.0	2832.3
40.0	3081.5
45.0	3284.4
47.5	3383.3
50.0	3544.6
52.5	3732.1
55.0	3965.9
57.5	4193.8
60.0	4462.1
62.5	4706.3
65.0	4779.6
67.5	4682.2
70.0	4392.2
72.5	3780.6
75.0	2901.8
77.5	2049.0
80.0	1400.3
82.5	699.4
85.0	50.9
87.5	5.9
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
3443.4 cd @ (90.0°, 62.0°)

Street side max intensity
4780.9 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.

RT



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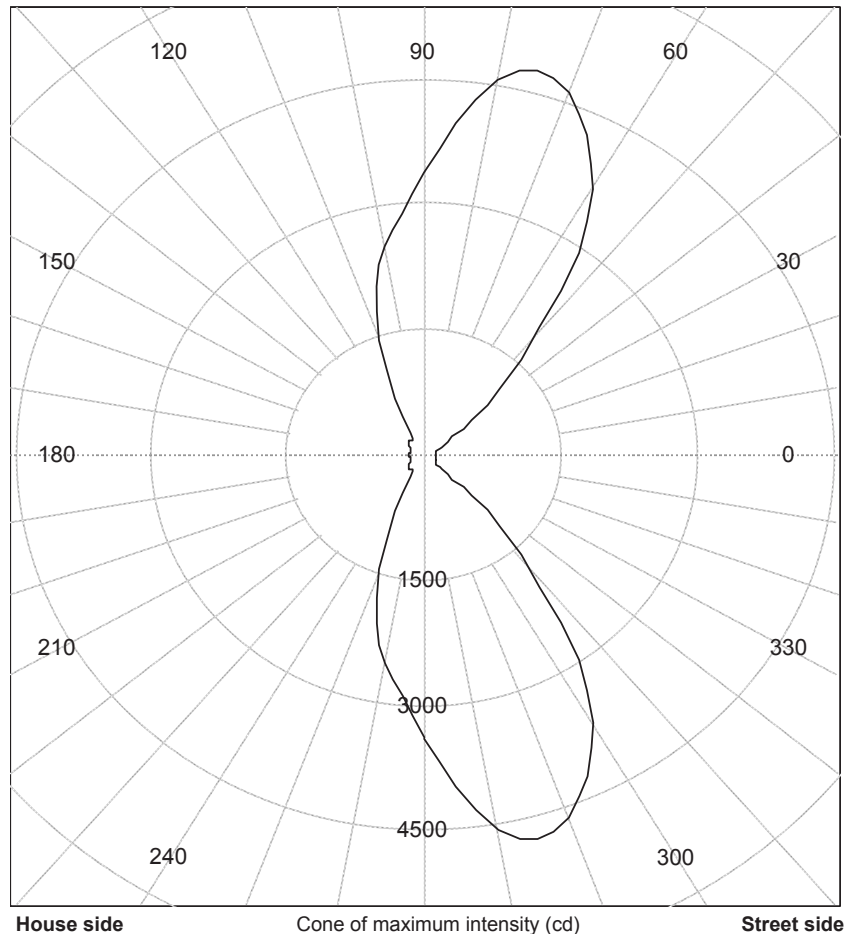
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Intensity in principal cone
(based on overall max intensity)

Lateral Plane (°)	(V64.5) (cd)
0	131.6
15	135.8
30	227.9
40	681.9
45	1158.0
50	1989.2
55	2963.1
60	3677.8
65	4241.0
70	4625.8
75	4780.9
80	4550.7
85	3996.4
90	3387.1
95	2901.0
100	2540.3
105	2095.7
110	1447.0
115	738.2
120	310.3
125	199.2
130	227.1
135	251.0
140	248.3
150	186.0
165	161.9
180	166.8

Principal Conical Surface



House side

Cone of maximum intensity (cd)

Street side

House side max intensity
3443.4 cd @ (90.0°, 62.0°)

Street side max intensity
4780.9 cd @ (75.0°, 64.5°)

Coordinates expressed in the C Type coordinate system

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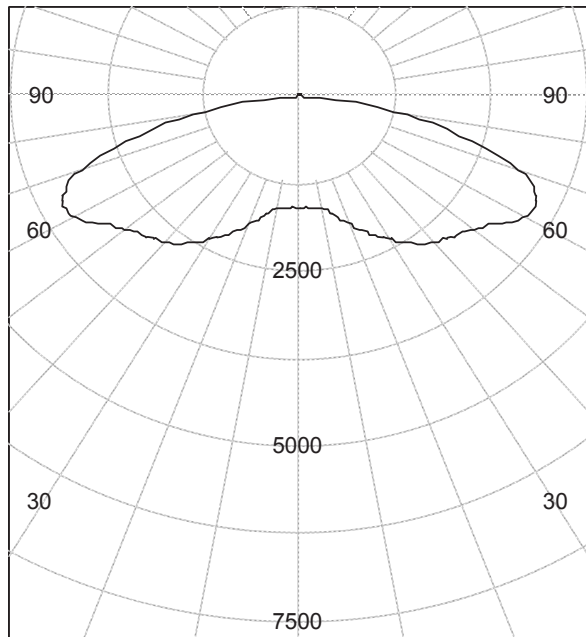
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Polar curve through L90 / L270

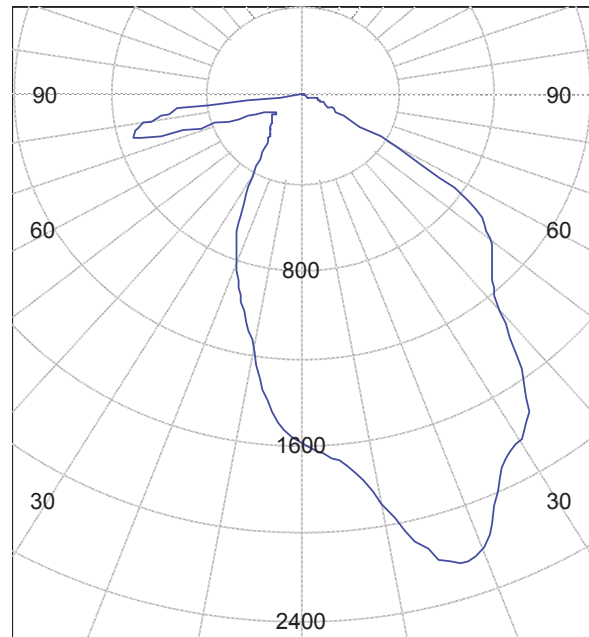


(L90)

(cd)

(L270)

Polar curve through L0 / L180



House side (L180)

(cd)

Street side (L0)



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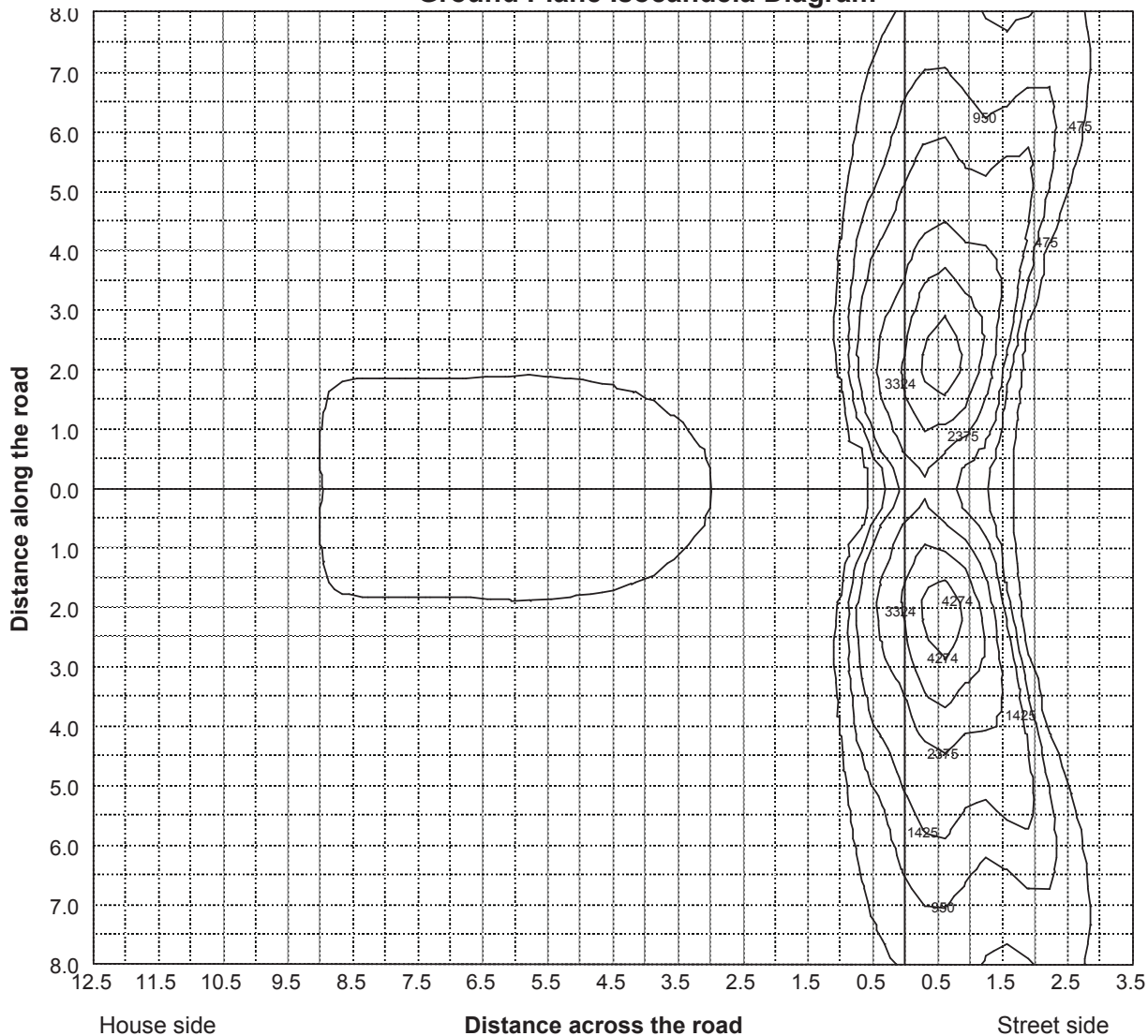
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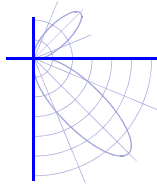
Ground Plane Isocandela Diagram



The isocandela contour units are expressed as cd

Upstream and downstream sides have been averaged.

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Intensity data (cd)

Vertical	L-Plane								
	L0	L15	L30	L40	L45	L50	L55	L60	L65
0.0	1587	1587	1587	1587	1587	1587	1587	1587	1587
10.0	1896	1865	1814	1773	1756	1737	1719	1711	1699
20.0	2196	2220	2296	2335	2322	2300	2255	2196	2138
30.0	1804	1848	2058	2351	2516	2652	2741	2780	2744
35.0	1608	1714	1974	2252	2439	2635	2817	2942	2988
40.0	1278	1436	1850	2212	2408	2619	2838	3038	3155
45.0	1118	1257	1695	2201	2469	2696	2903	3113	3276
47.5	1071	1206	1636	2177	2495	2759	2973	3183	3359
50.0	1013	1136	1579	2155	2536	2851	3087	3295	3483
52.5	942	1035	1487	2095	2543	2925	3209	3447	3652
55.0	836	914	1339	1972	2474	2932	3301	3590	3825
57.5	620	714	1159	1794	2315	2858	3325	3709	3991
60.0	373	447	850	1522	2060	2708	3271	3761	4172
62.5	168	209	474	1071	1621	2420	3162	3756	4280
65.0	126	129	183	593	1044	1849	2883	3644	4215
67.5	102	108	111	212	504	1100	2257	3336	3982
70.0	81	89	98	109	163	446	1357	2732	3600
72.5	73	75	86	89	97	132	433	1807	3066
75.0	71	76	69	75	71	85	106	857	2260
77.5	68	75	49	67	57	59	76	174	1320
80.0	49	67	34	42	46	39	45	67	672
82.5	16	25	17	20	21	22	23	29	220
85.0	4	4	4	6	6	7	7	9	23
87.5	2	1	2	2	2	3	3	4	5
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								
	L70	L75	L80	L85	L90	L95	L100	L105	L110
0.0	1587	1587	1587	1587	1587	1587	1587	1587	1587
10.0	1691	1677	1664	1651	1636	1616	1595	1572	1539
20.0	2099	2063	2033	2001	1962	1904	1826	1729	1611
30.0	2662	2567	2506	2444	2373	2268	2131	1957	1757
35.0	2939	2832	2740	2660	2560	2427	2254	2045	1830
40.0	3165	3082	2970	2858	2723	2550	2340	2104	1879
45.0	3339	3284	3154	3005	2838	2623	2378	2129	1893
47.5	3433	3383	3247	3078	2884	2644	2384	2128	1885
50.0	3582	3545	3393	3192	2965	2694	2408	2145	1885
52.5	3765	3732	3565	3332	3056	2750	2453	2185	1902
55.0	3971	3966	3807	3531	3197	2845	2532	2250	1907
57.5	4168	4194	4026	3721	3319	2922	2588	2268	1848
60.0	4418	4462	4270	3893	3423	2981	2628	2257	1752
62.5	4608	4706	4468	3980	3441	2970	2616	2207	1618
65.0	4609	4780	4561	4000	3372	2876	2511	2053	1393
67.5	4405	4682	4575	3979	3261	2721	2318	1768	1043
70.0	4041	4392	4455	3864	3026	2508	2094	1420	676
72.5	3478	3781	4067	3572	2626	2161	1760	1017	391
75.0	2910	2902	3340	3070	2162	1726	1288	543	173
77.5	2284	2049	2264	2301	1672	1234	750	224	88
80.0	1523	1400	1292	1574	1222	788	279	60	48
82.5	648	699	511	759	604	343	64	24	29
85.0	41	51	37	55	61	27	11	11	14
87.5	7	6	5	6	6	6	5	5	5
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	1587	1587	1587	1587	1587	1587	1587	1587	1587
10.0	1504	1465	1427	1396	1361	1322	1264	1208	1194
20.0	1483	1354	1239	1148	1070	1003	916	840	816
30.0	1568	1389	1221	1062	907	774	591	462	424
35.0	1623	1415	1212	994	779	593	393	286	261
40.0	1656	1424	1154	861	578	383	246	221	218
45.0	1651	1359	1014	632	330	222	210	199	186
47.5	1623	1294	898	487	242	206	208	193	172
50.0	1580	1200	747	368	209	203	211	192	165
52.5	1537	1075	594	281	208	214	212	188	156
55.0	1458	916	461	236	218	226	211	179	148
57.5	1311	739	352	220	227	235	204	160	142
60.0	1132	570	268	217	238	244	196	158	142
62.5	933	422	217	223	249	250	190	160	144
65.0	685	284	197	227	252	246	185	165	178
67.5	435	192	189	227	254	235	183	211	268
70.0	249	158	177	224	244	222	180	306	387
72.5	163	132	166	217	228	210	180	423	565
75.0	116	109	151	199	208	202	196	600	738
77.5	75	83	126	168	181	187	265	607	710
80.0	49	59	94	120	134	158	294	546	640
82.5	30	38	59	75	99	118	241	456	546
85.0	15	18	24	27	36	40	92	196	226
87.5	5	5	5	5	6	7	7	7	6
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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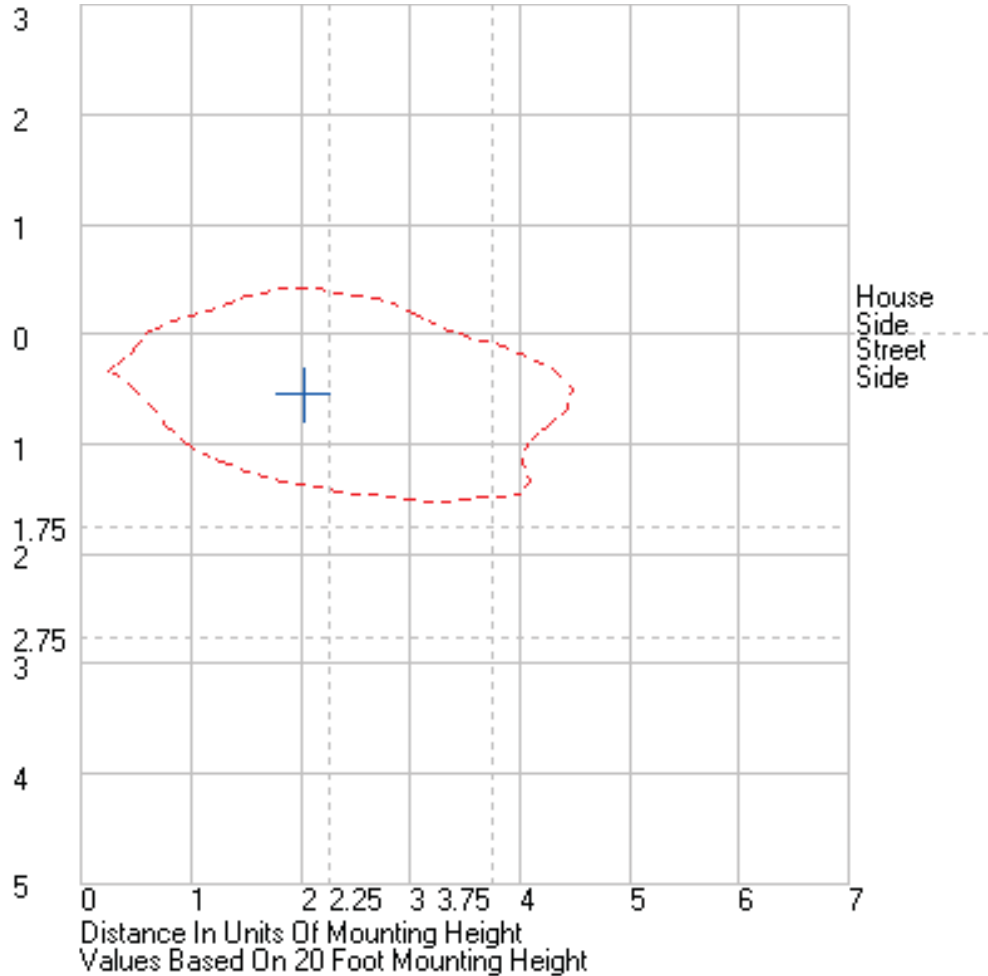
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LM-79 Performance Data

Spectral	CIE 1931 (x, y) ⁽¹⁾	(0.378, 0.374)
	CIE 1976 (u', v') ⁽¹⁾	(0.225, 0.500)
	Correlated Color Temperature (CCT) ⁽¹⁾	4040 K
	Spatial Δ (u', v') Uniformity ⁽²⁾	4.26E-03
	Color Rendering Index (Ra) ⁽¹⁾	72.1
	Special CRI 9 (R ₉) ^{(1),(3)}	-32.3
	Distance from Planckian Locus (Duv) ^{(1),(3)}	-5.62E-04
	Scotopic/Photopic Ratio ^{(1),(3)}	1.54

Electrical	Voltage	120.0 V	(Setpoint 1)
	Frequency	60.0 Hz	
	Current	0.491 A	
	Power	58.6 W	
	Power Factor	1.00	
	Current THD	4.9 %	
	Voltage	277.0 V	(Setpoint 2)
	Frequency	60.0 Hz	
	Current	0.214 A	
	Power	56.5 W	
	Power Factor	0.95	
	Current THD	11 %	

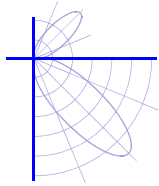
Performance data in accordance with IESNA LM-79-08. Spectral calculations are for a CIE 2° observer

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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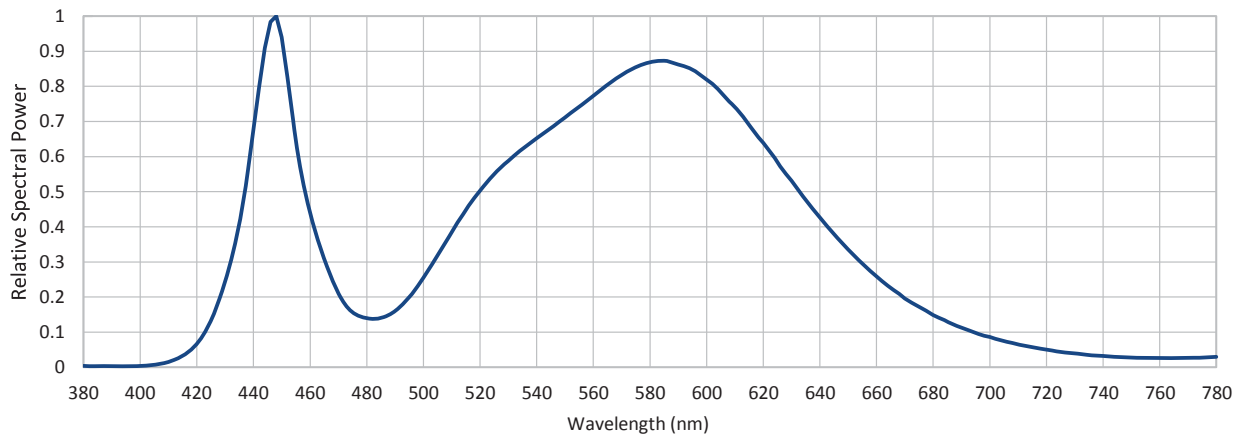
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LM-79 Performance Data

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	0.439	540	0.652	620	0.639	700	0.086
385	0.003	465	0.308	545	0.681	625	0.584	705	0.075
390	0.003	470	0.210	550	0.711	630	0.531	710	0.065
395	0.003	475	0.158	555	0.742	635	0.476	715	0.057
400	0.004	480	0.140	560	0.774	640	0.427	720	0.050
405	0.007	485	0.141	565	0.805	645	0.379	725	0.044
410	0.015	490	0.161	570	0.833	650	0.336	730	0.039
415	0.033	495	0.200	575	0.855	655	0.295	735	0.035
420	0.067	500	0.255	580	0.869	660	0.259	740	0.032
425	0.135	505	0.319	585	0.872	665	0.226	745	0.029
430	0.243	510	0.384	590	0.862	670	0.196	750	0.027
435	0.413	515	0.448	595	0.848	675	0.172	755	0.027
440	0.676	520	0.503	600	0.819	680	0.149	760	0.026
445	0.947	525	0.550	605	0.784	685	0.130	765	0.026
450	0.940	530	0.588	610	0.740	690	0.113	770	0.026
455	0.649	535	0.622	615	0.691	695	0.098	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	(0.223, 0.497)	(0.223, 0.498)
10.0	(0.223, 0.498)	(0.224, 0.500)
20.0	(0.224, 0.500)	(0.223, 0.498)
30.0	(0.225, 0.501)	(0.225, 0.501)
40.0	(0.225, 0.501)	(0.224, 0.499)
50.0	(0.225, 0.500)	(0.224, 0.499)
60.0	(0.225, 0.501)	(0.224, 0.500)
70.0	(0.225, 0.501)	I <= 10% peak
80.0	(0.224, 0.496)	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 1.0 / 22.25 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-19150-10

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

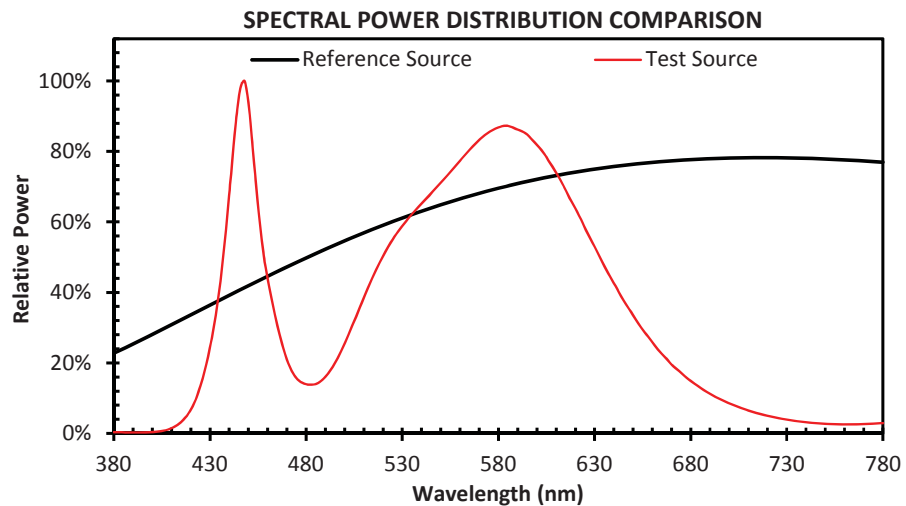
Grey painted cast aluminum housing with no lens.

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

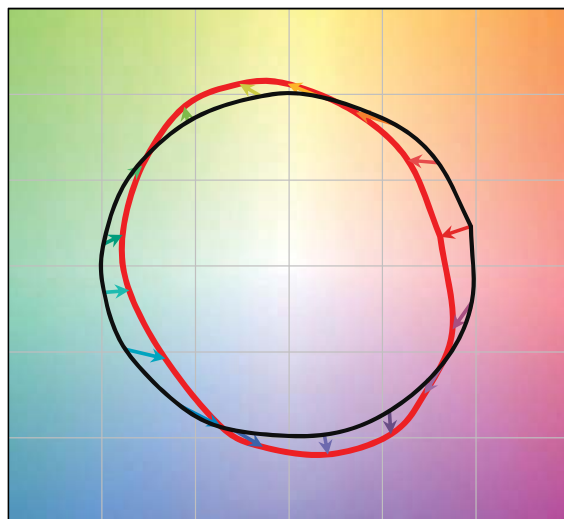
One Osram power supply. Model: OT 50/120-277/1A2 2DIMLT2 P set to 1050ma.

Operating at 120v AC and 60 Hz. LED current set to 525ma.

R_f	71
R_g	94



COLOR VECTOR GRAPHIC



— Test Source

→ Series1

COLOR DISTORTION GRAPHIC





Test Report No. LLI-19150-10

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

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 1050ma.

Operating at 120v AC and 60 Hz. LED current set to 525ma.

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.