



Report of Test LLI-19003-1

LED Roadway Lighting - Roadway luminaire. Product ID: L6 60M 5 X 2ES U X XX 4 XX X X X
Grey painted cast aluminum housing with no lens.
60 LEDs in three 4 x 5 arrays with clear plastic sheets of individual lenses.
One Delta Electronics LED driver. Model: USCI-200140GA
Operating at 120v AC and 60 Hz.



Performance Summary

Total Light Output	24017 lm	Min Power Factor	0.96 @ 277 V
Luminaire Power	173.6 W	Max THD(i)*	13.0 % @ 120 V
Luminous Efficacy	138.3 lm/W	0-90° Zonal Flux %	100.0 %
CCT	4100 K	80-90° Zonal Flux %	1.6 %
CIE(x,y) 1931	(0.375, 0.372)	BUG Rating*	B3-U0-G3
CRI	72	Street Classification*	Type III Short

PREPARED FOR : LED Roadway Lighting Ltd, Halifax. NS Canada



LightLab
INTERNATIONAL

LightLab International, LLC
Phoenix AZ 85085



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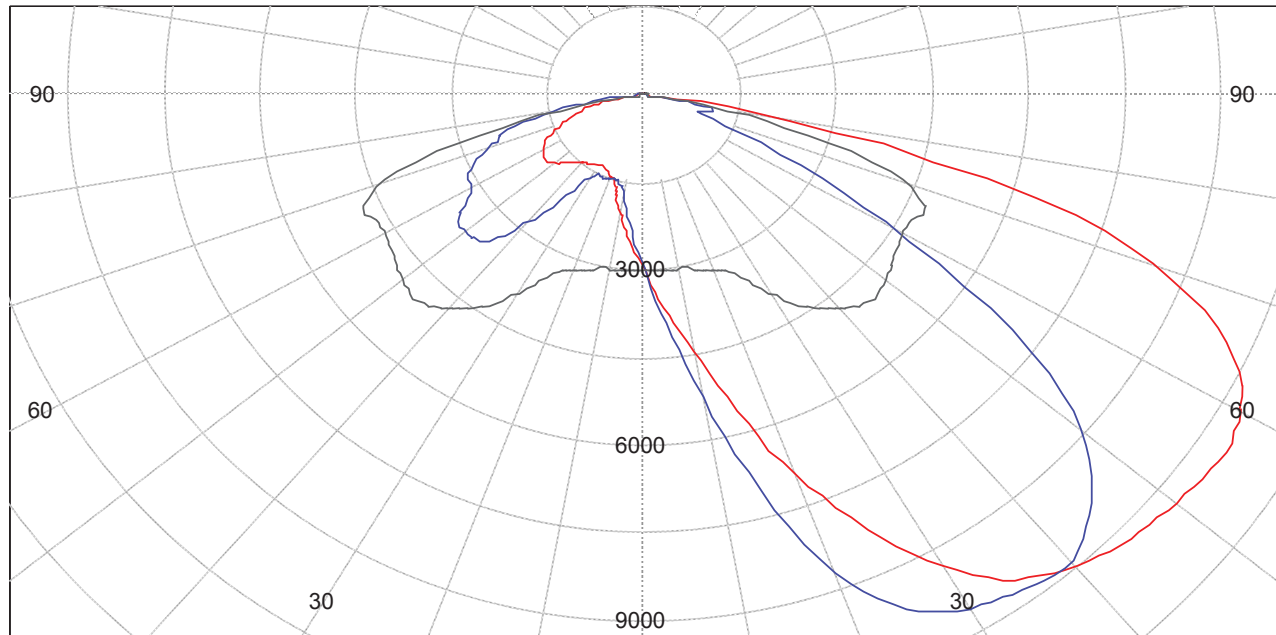
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Polar Light Distribution Curves



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 %	76.3 %	76.3 %
House Side	0.0 %	23.7 %	23.7 %
	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

11-Jan-2019
14-Jan-2019



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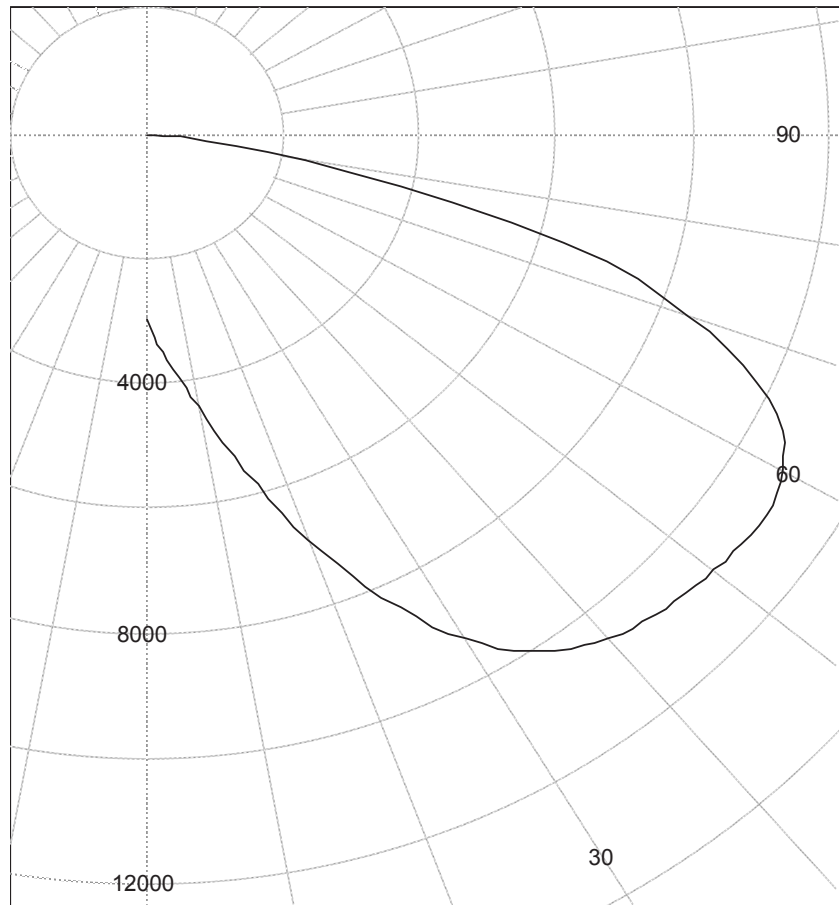
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Intensity in principal plane
(based on overall max intensity)

Vertical Angle (°)	Intensity (L45.0) (cd)
0.0	2997.4
10.0	4452.6
20.0	6912.0
30.0	9329.6
35.0	10119.7
40.0	10533.2
45.0	10746.2
47.5	10801.8
50.0	10852.4
52.5	10891.8
55.0	10938.4
57.5	10902.0
60.0	10746.4
62.5	10508.9
65.0	10043.2
67.5	9341.4
70.0	8442.0
72.5	7332.1
75.0	5515.0
77.5	3422.7
80.0	1799.5
82.5	694.6
85.0	109.1
87.5	14.3
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
4991.9 cd @ (90.0°, 46.5°)

Street side max intensity
10943.7 cd @ (45.0°, 55.5°)

Coordinates expressed in the C Type coordinate system

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



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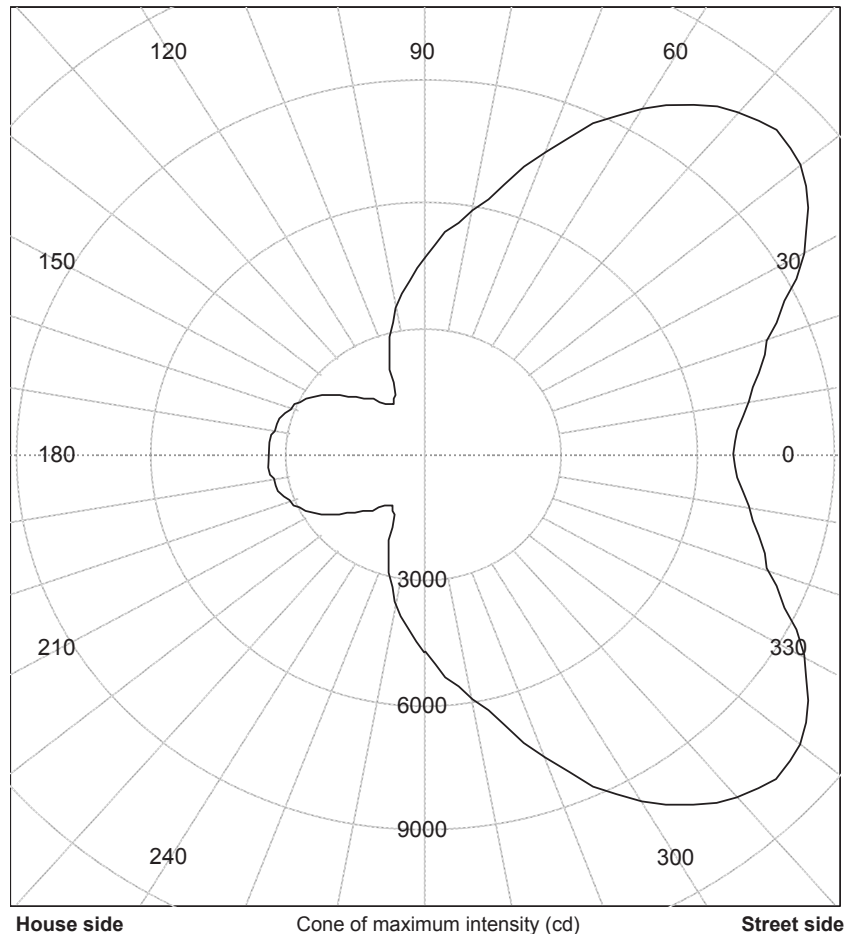
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Intensity in principal cone
(based on overall max intensity)

Lateral Plane (°)	(V55.5) (cd)
0	6765.9
15	7599.0
30	9580.9
40	10797.8
45	10943.7
50	10715.1
55	10281.7
60	9596.1
65	8731.7
70	7723.0
75	6722.6
80	5932.3
85	5320.3
90	4758.2
95	4203.6
100	3601.5
105	2932.4
110	2173.0
115	1582.8
120	1402.8
125	1496.3
130	1711.2
135	1903.6
140	2183.2
150	2826.3
165	3312.5
180	3416.2

Principal Conical Surface



House side max intensity
4991.9 cd @ (90.0°, 46.5°)

Street side max intensity
10943.7 cd @ (45.0°, 55.5°)

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



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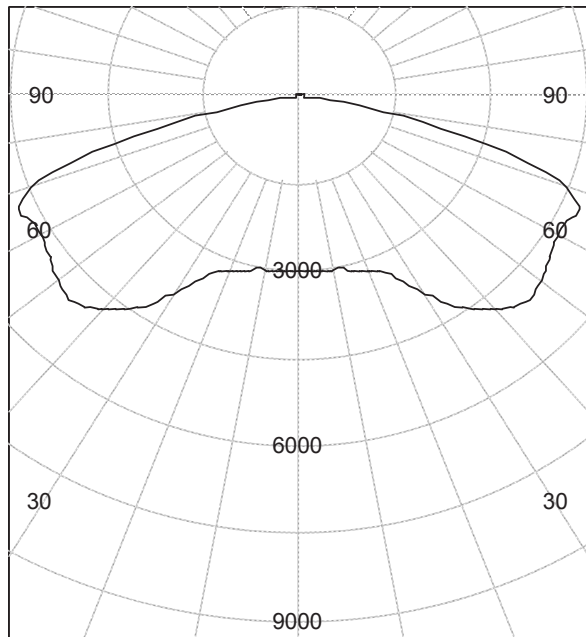
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Polar curve through L90 / L270

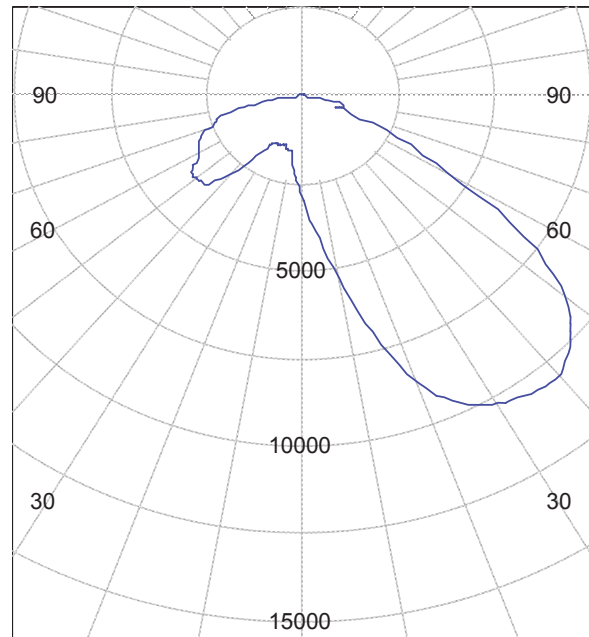


(L90)

(cd)

(L270)

Polar curve through L0 / L180



House side (L180)

(cd)

Street side (L0)



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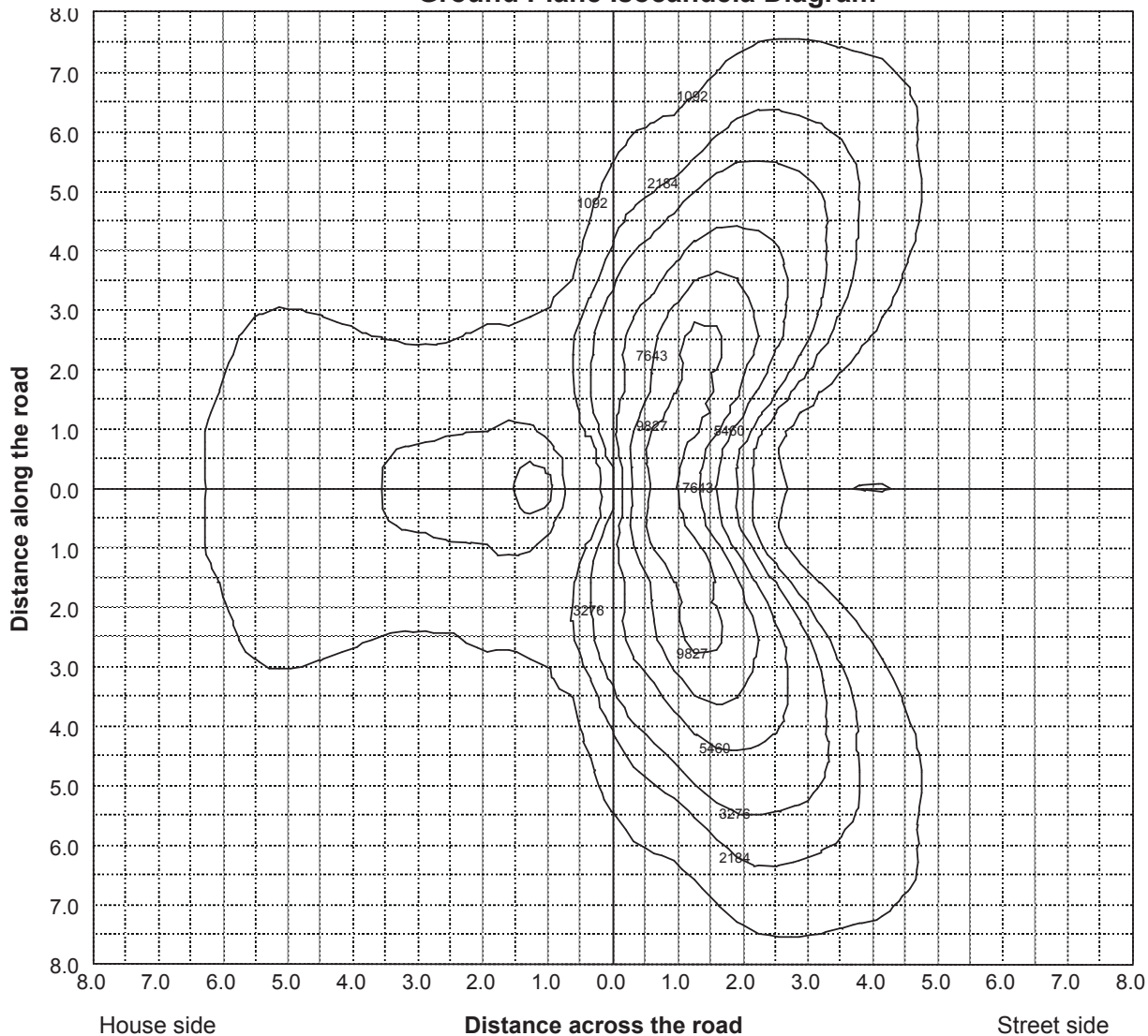
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Ground Plane Isocandela Diagram



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	2997	2997	2997	2997	2997	2997	2997	2997	2997
10.0	5265	5169	4868	4596	4453	4290	4135	3978	3813
20.0	8706	8523	7986	7316	6912	6438	5946	5455	4980
30.0	10148	10072	9897	9590	9330	8924	8414	7752	7002
35.0	10323	10381	10485	10301	10120	9823	9384	8726	7899
40.0	10391	10535	10759	10694	10533	10255	9850	9254	8458
45.0	9872	10263	10739	10836	10746	10486	10091	9555	8797
47.5	9454	9865	10589	10863	10802	10583	10187	9639	8883
50.0	8879	9314	10363	10862	10852	10658	10254	9669	8893
52.5	8089	8650	10042	10861	10892	10703	10285	9657	8827
55.0	7024	7806	9661	10818	10938	10715	10286	9608	8748
57.5	5712	6647	9208	10656	10902	10699	10253	9560	8687
60.0	4352	5144	8483	10434	10746	10626	10220	9578	8716
62.5	3341	3711	7384	10038	10509	10523	10213	9727	8946
65.0	2354	2473	5979	9442	10043	10313	10250	10019	9377
67.5	1493	1491	4495	8496	9341	9856	10236	10346	9915
70.0	958	950	3058	7124	8442	9328	10233	10583	10275
72.5	937	654	2098	5351	7332	8572	9437	9898	9825
75.0	1121	486	1401	3773	5515	6940	7673	8312	8483
77.5	1038	354	934	2220	3423	4685	5827	6323	6314
80.0	672	244	527	1248	1799	2353	3445	3972	3849
82.5	344	157	256	509	695	939	1386	1579	1501
85.0	126	76	86	107	109	128	154	161	148
87.5	15	16	12	13	14	16	18	20	22
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	2997	2997	2997	2997	2997	2997	2997	2997	2997
10.0	3651	3482	3320	3166	3022	2886	2757	2636	2525
20.0	4561	4174	3830	3504	3192	2899	2621	2367	2139
30.0	6254	5565	4965	4434	3914	3371	2806	2330	1979
35.0	7021	6200	5516	4946	4419	3859	3230	2606	2025
40.0	7557	6663	5931	5318	4776	4205	3546	2860	2147
45.0	7889	6944	6156	5522	4977	4392	3711	2989	2213
47.5	7947	6968	6163	5527	4984	4413	3744	3020	2215
50.0	7918	6918	6111	5485	4928	4361	3723	3015	2203
52.5	7833	6827	6027	5417	4851	4285	3666	2979	2182
55.0	7741	6738	5945	5336	4774	4217	3612	2941	2174
57.5	7675	6682	5886	5267	4706	4151	3545	2887	2169
60.0	7714	6704	5884	5252	4673	4075	3440	2796	2093
62.5	7929	6878	5994	5318	4698	4041	3308	2578	1962
65.0	8344	7182	6206	5483	4807	3898	3013	2372	1809
67.5	8828	7463	6415	5675	4706	3624	2798	2181	1566
70.0	9091	7453	6306	5402	4315	3245	2320	1643	1284
72.5	8663	6816	5499	4700	3564	2447	1569	1147	1079
75.0	7634	5927	4520	3768	2653	1630	938	894	947
77.5	5819	4552	3193	2548	1812	977	608	695	755
80.0	3570	2668	1676	1386	951	492	475	487	507
82.5	1433	1085	639	585	388	201	242	263	293
85.0	120	81	63	60	61	63	66	77	98
87.5	24	26	29	32	34	36	37	39	40
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	2997	2997	2997	2997	2997	2997	2997	2997	2997
10.0	2426	2332	2241	2156	2082	2014	1899	1794	1759
20.0	1936	1757	1618	1530	1489	1473	1479	1507	1519
30.0	1657	1449	1368	1370	1392	1422	1446	1547	1605
35.0	1601	1417	1370	1407	1442	1427	1455	1931	2095
40.0	1614	1429	1436	1489	1486	1496	1831	2665	2898
45.0	1632	1421	1506	1555	1601	1772	2294	3362	3549
47.5	1624	1409	1513	1601	1706	1898	2509	3502	3632
50.0	1600	1400	1514	1638	1801	1999	2687	3548	3636
52.5	1581	1396	1510	1682	1870	2105	2805	3474	3625
55.0	1581	1402	1500	1711	1904	2177	2831	3358	3471
57.5	1594	1403	1477	1702	1881	2187	2777	3070	3203
60.0	1574	1396	1444	1652	1832	2128	2632	2801	3114
62.5	1513	1368	1397	1580	1744	2008	2393	2697	3081
65.0	1431	1331	1357	1494	1626	1829	2167	2640	2972
67.5	1326	1281	1317	1401	1490	1642	1957	2508	2793
70.0	1198	1203	1267	1306	1349	1454	1761	2298	2502
72.5	1088	1079	1146	1197	1181	1270	1590	2120	2362
75.0	936	926	989	989	1010	1099	1438	1968	2075
77.5	705	732	812	802	834	924	1334	1632	1682
80.0	490	538	603	603	661	766	1171	1270	1267
82.5	301	339	392	394	453	561	805	876	872
85.0	120	139	156	172	212	279	447	528	499
87.5	41	41	40	38	43	50	75	141	157
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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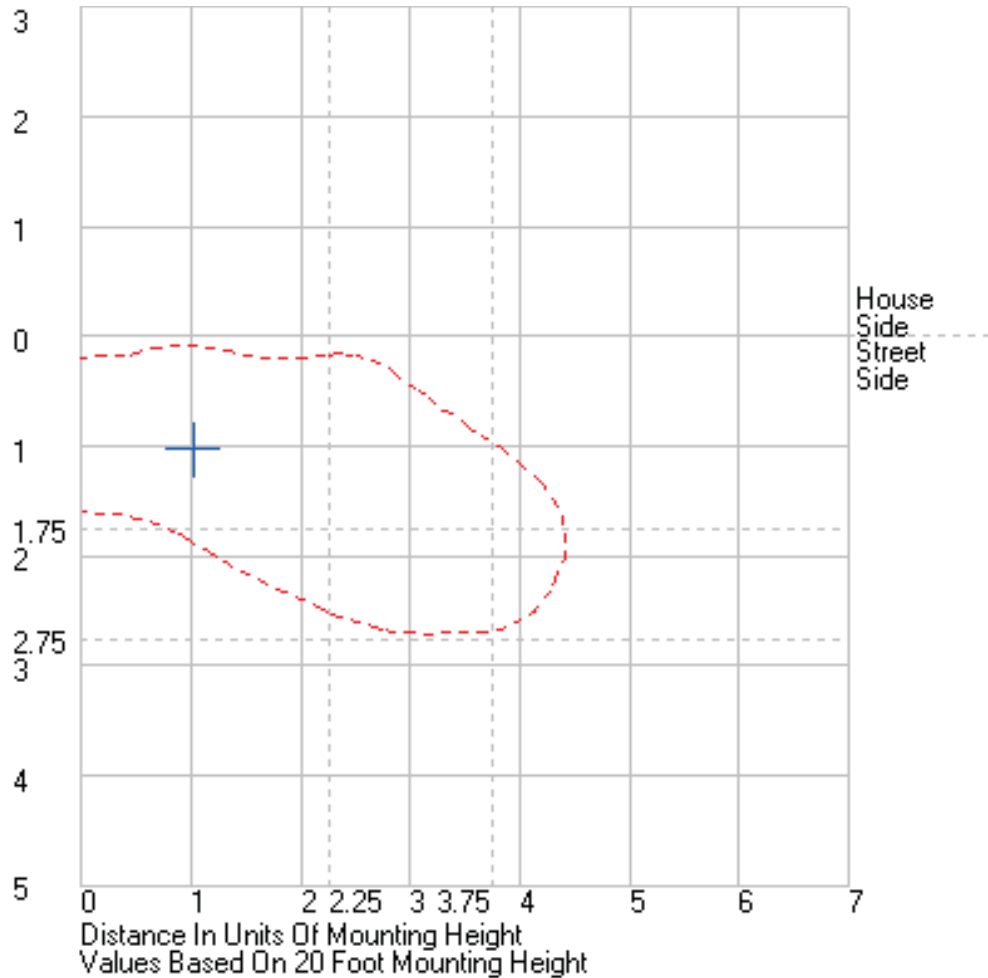
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LM-79 Performance Data

Spectral	CIE 1931 (x, y) ⁽¹⁾	(0.375, 0.372)
	CIE 1976 (u', v') ⁽¹⁾	(0.224, 0.499)
	Correlated Color Temperature (CCT) ⁽¹⁾	4100 K
	Spatial Δ (u', v') Uniformity ⁽²⁾	3.40E-03
	Color Rendering Index (Ra) ⁽¹⁾	72.3
	Special CRI 9 (R ₉) ^{(1),(3)}	-31.7
	Distance from Planckian Locus (Duv) ^{(1),(3)}	-8.32E-04
	Scotopic/Photopic Ratio ^{(1),(3)}	1.56

Electrical	Voltage	120.0 V	(Setpoint 1)
	Frequency	60.0 Hz	
	Current	1.465 A	
	Power	174 W	
	Power Factor	0.99	
	Current THD	13 %	
	Voltage	277.0 V	(Setpoint 2)
	Frequency	60.0 Hz	
	Current	0.645 A	
	Power	172 W	
	Power Factor	0.96	
	Current THD	8.0 %	

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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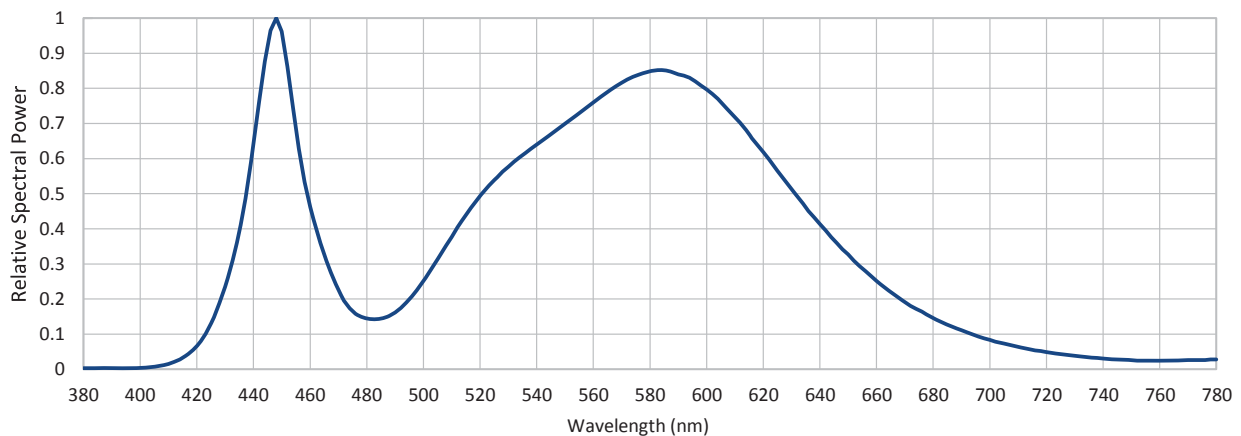
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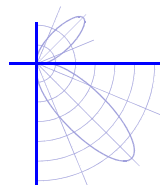
LM-79 Performance Data

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	0.003	460	0.462	540	0.640	620	0.619	700	0.084
385	0.003	465	0.327	545	0.669	625	0.565	705	0.073
390	0.003	470	0.225	550	0.699	630	0.513	710	0.064
395	0.003	475	0.166	555	0.729	635	0.461	715	0.056
400	0.004	480	0.145	560	0.760	640	0.414	720	0.049
405	0.007	485	0.144	565	0.789	645	0.367	725	0.043
410	0.015	490	0.162	570	0.816	650	0.327	730	0.039
415	0.033	495	0.199	575	0.836	655	0.287	735	0.034
420	0.066	500	0.252	580	0.849	660	0.252	740	0.031
425	0.132	505	0.313	585	0.851	665	0.220	745	0.028
430	0.235	510	0.377	590	0.840	670	0.191	750	0.026
435	0.395	515	0.439	595	0.825	675	0.168	755	0.025
440	0.641	520	0.493	600	0.797	680	0.146	760	0.025
445	0.921	525	0.539	605	0.761	685	0.127	765	0.025
450	0.962	530	0.577	610	0.718	690	0.111	770	0.026
455	0.685	535	0.610	615	0.669	695	0.096	775	0.026
								780	0.028





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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, 0.499)	(0.223, 0.499)
10.0	(0.223, 0.498)	(0.224, 0.500)
20.0	(0.224, 0.500)	(0.224, 0.498)
30.0	(0.225, 0.502)	(0.224, 0.499)
40.0	(0.223, 0.497)	(0.224, 0.498)
50.0	(0.223, 0.497)	(0.223, 0.497)
60.0	(0.225, 0.502)	(0.223, 0.498)
70.0	(0.224, 0.500)	I <= 10% peak
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 1.0 / 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)

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RT



Test Report No. LLI-19003-1

LED Roadway Lighting - Roadway luminaire. Product ID: L6 60M 5 X 2ES U X XX 4 XX X X X

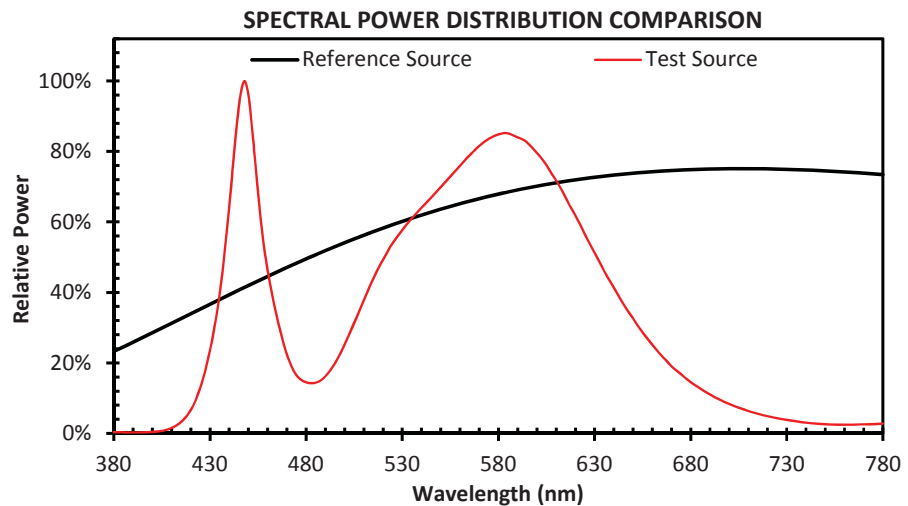
Grey painted cast aluminum housing with no lens.

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

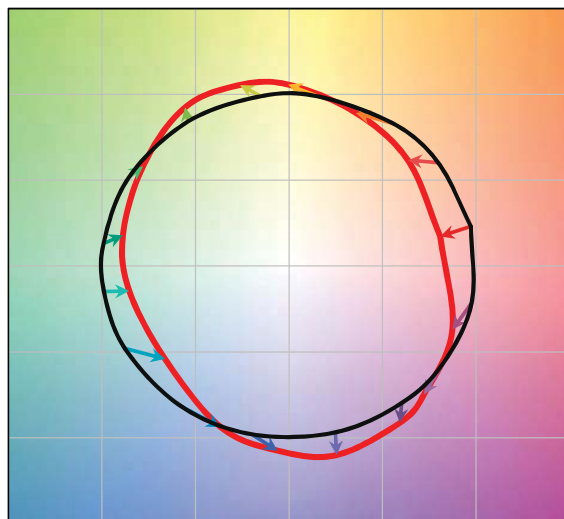
One Delta Electronics LED driver. Model: USCI-200140GA

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-19003-1

LED Roadway Lighting - Roadway luminaire. Product ID: L6 60M 5 X 2ES U X XX 4 XX X X X
Grey painted cast aluminum housing with no lens.
60 LEDs in three 4 x 5 arrays with clear plastic sheets of individual lenses.
One Delta Electronics LED driver. Model: USCI-200140GA
Operating at 120v AC and 60 Hz.

Test Distance 8.0 m
Test Temperature 25.2 °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.