



Report of Test LLI-19244-12

LED Roadway Lighting - Roadway luminaire. Product ID: QB 00 616S X 5 53 X 3G3M XXXX XXXX
Grey cast aluminum top housing and white plastic bottom housing with clear flat glass lens.
16 LEDs in 4 x 4 array with clear plastic sheet of individual lenses.
One Osram Optotronic LED driver. Model: QT50W/UNV/1250C/2DIMLT2/P6 set to 1050ma.
Operating at 120v AC and 60 Hz.



Performance Summary

Total Light Output	6978 lm	Min Power Factor	0.96 @ 277 V
Luminaire Power	57.1 W	Max THD(i)*	9.3 % @ 277 V
Luminous Efficacy	122.2 lm/W	0-90° Zonal Flux %	100.0 %
CCT	3020 K	80-90° Zonal Flux %	0.6 %
CIE(x,y) 1931	(0.436, 0.405)	BUG Rating*	B2-U0-G2
CRI	71	Street Classification*	Type II Very Short

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



LightLab
INTERNATIONAL

LightLab International, LLC
Phoenix AZ 85085



This document is issued in accordance with the accreditation requirements of NVLAP. The laboratory is accredited for compliance with ISO/IEC 17025. The results of the tests, calibrations and/or measurements included in this document are traceable to the SI system of units.

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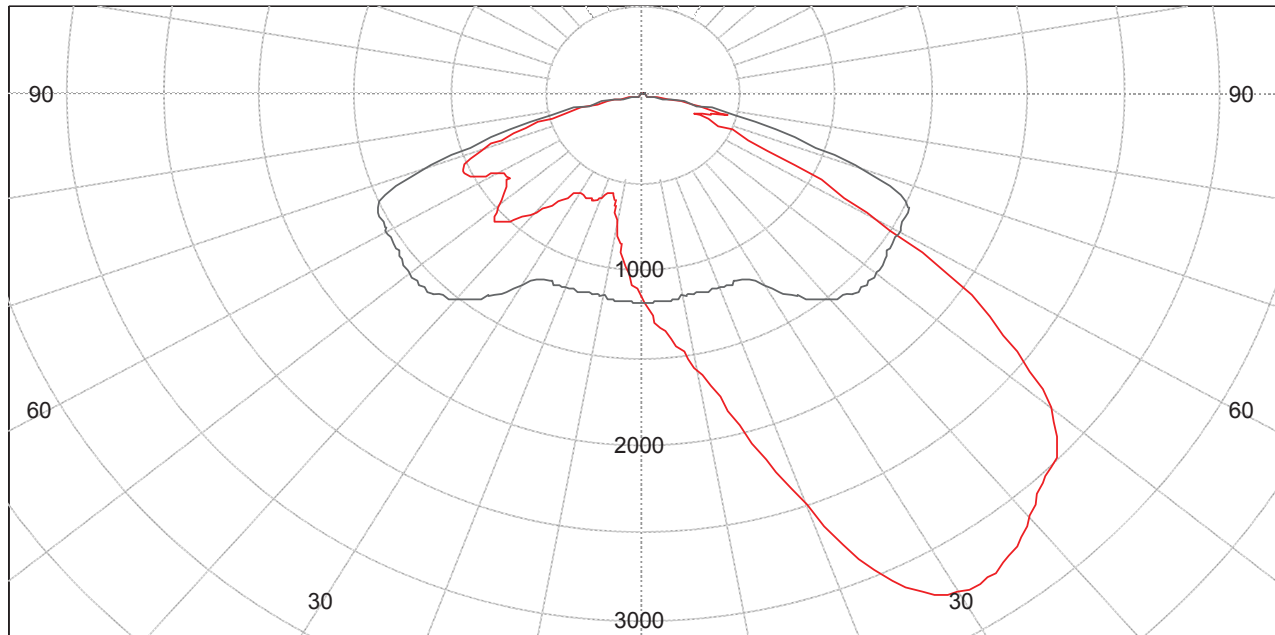




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Polar Light Distribution Curves



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 %	75.1 %	75.1 %
House Side	0.0 %	24.9 %	24.9 %
	0.0 %	100.0 %	100.0 %

Report data based on absolute values as measured.

Signed:


Ryder Tunney
Authorized Signatory

Date of test
Date of report

23-Sep-2019
24-Sep-2019



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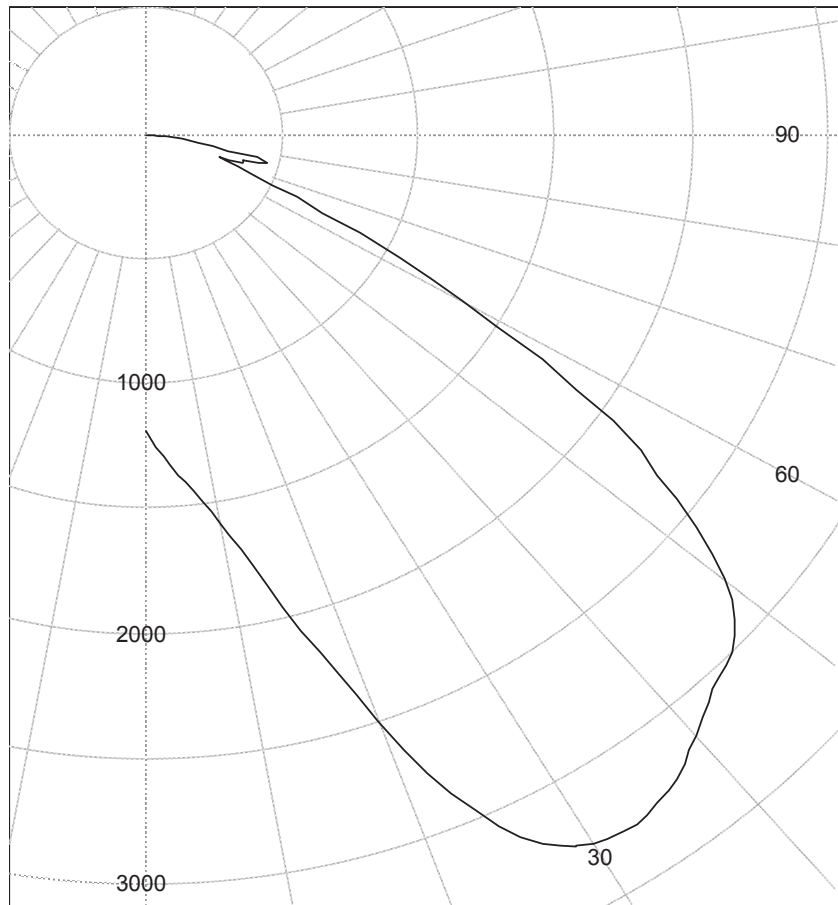
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Operating at 120v AC and 60 Hz.

Intensity in principal plane
(based on overall max intensity)

Vertical Angle (°)	Intensity (cd)
0.0	1185.1
10.0	1578.9
20.0	2493.8
30.0	3279.9
35.0	3267.7
40.0	3134.3
45.0	3003.9
47.5	2926.5
50.0	2763.8
52.5	2492.8
55.0	2212.1
57.5	1794.8
60.0	1343.2
62.5	969.8
65.0	604.5
67.5	394.6
70.0	285.5
72.5	373.9
75.0	465.6
77.5	272.9
80.0	137.2
82.5	44.9
85.0	7.2
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
1584.1 cd @ (90.0°, 48.5°)

Street side max intensity
3293.6 cd @ (0.0°, 32.5°)

Coordinates expressed in the C Type coordinate system

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



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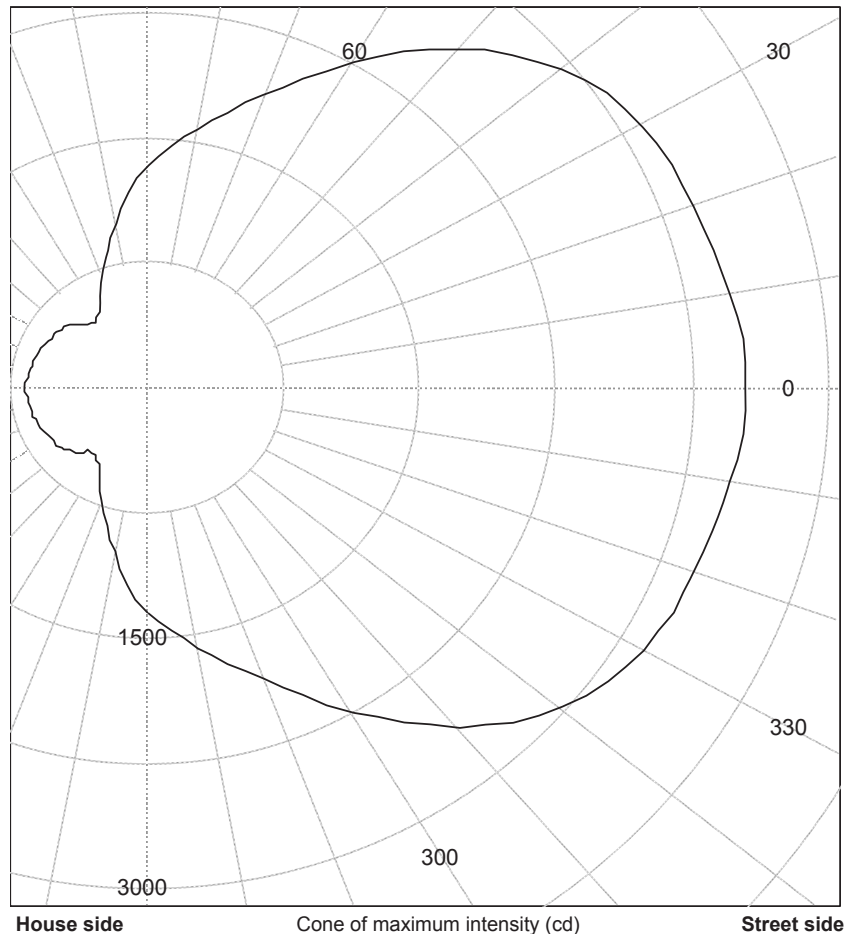
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Operating at 120v AC and 60 Hz.

Intensity in principal cone
(based on overall max intensity)

Lateral Plane (°)	(V32.5) (cd)
0	3293.6
15	3221.2
30	3141.5
40	2977.1
45	2837.4
50	2656.4
55	2453.7
60	2255.6
65	2041.5
70	1865.8
75	1715.0
80	1581.1
85	1460.9
90	1339.2
95	1182.2
100	1000.2
105	851.4
110	719.7
115	616.2
120	525.4
125	483.5
130	495.3
135	540.6
140	575.8
150	600.6
165	636.2
180	661.8

Principal Conical Surface



House side max intensity
1584.1 cd @ (90.0°, 48.5°)

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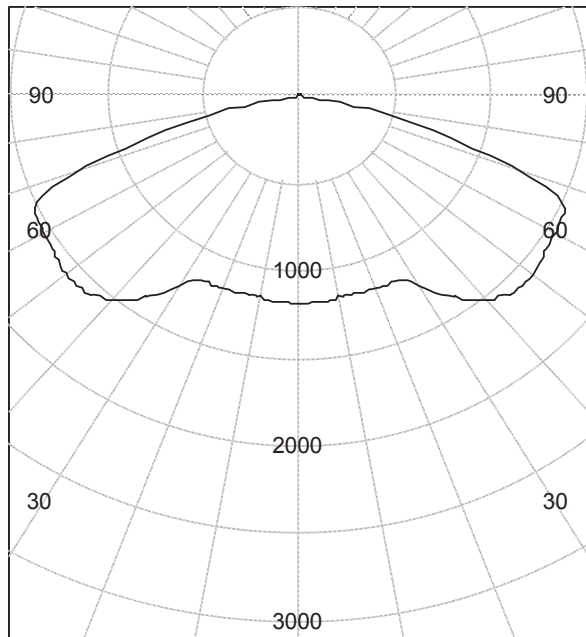
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Polar curve through L90 / L270

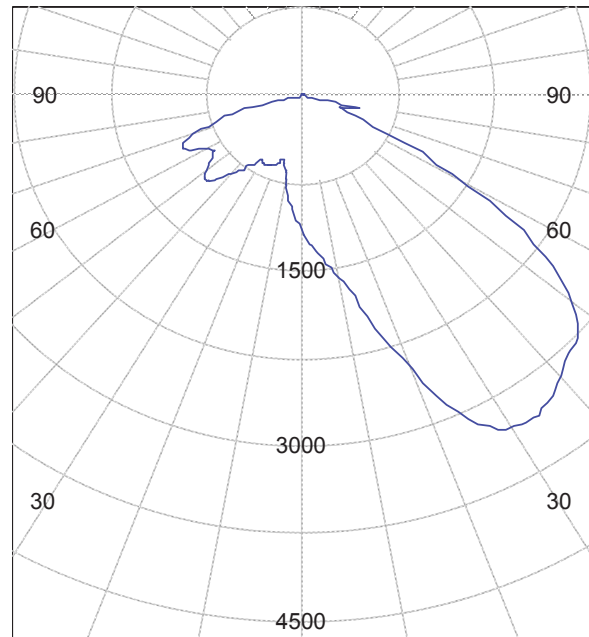


(L90)

(cd)

(L270)

Polar curve through L0 / L180



House side (L180)

(cd)

Street side (L0)

Test Report No. LLI-19244-12

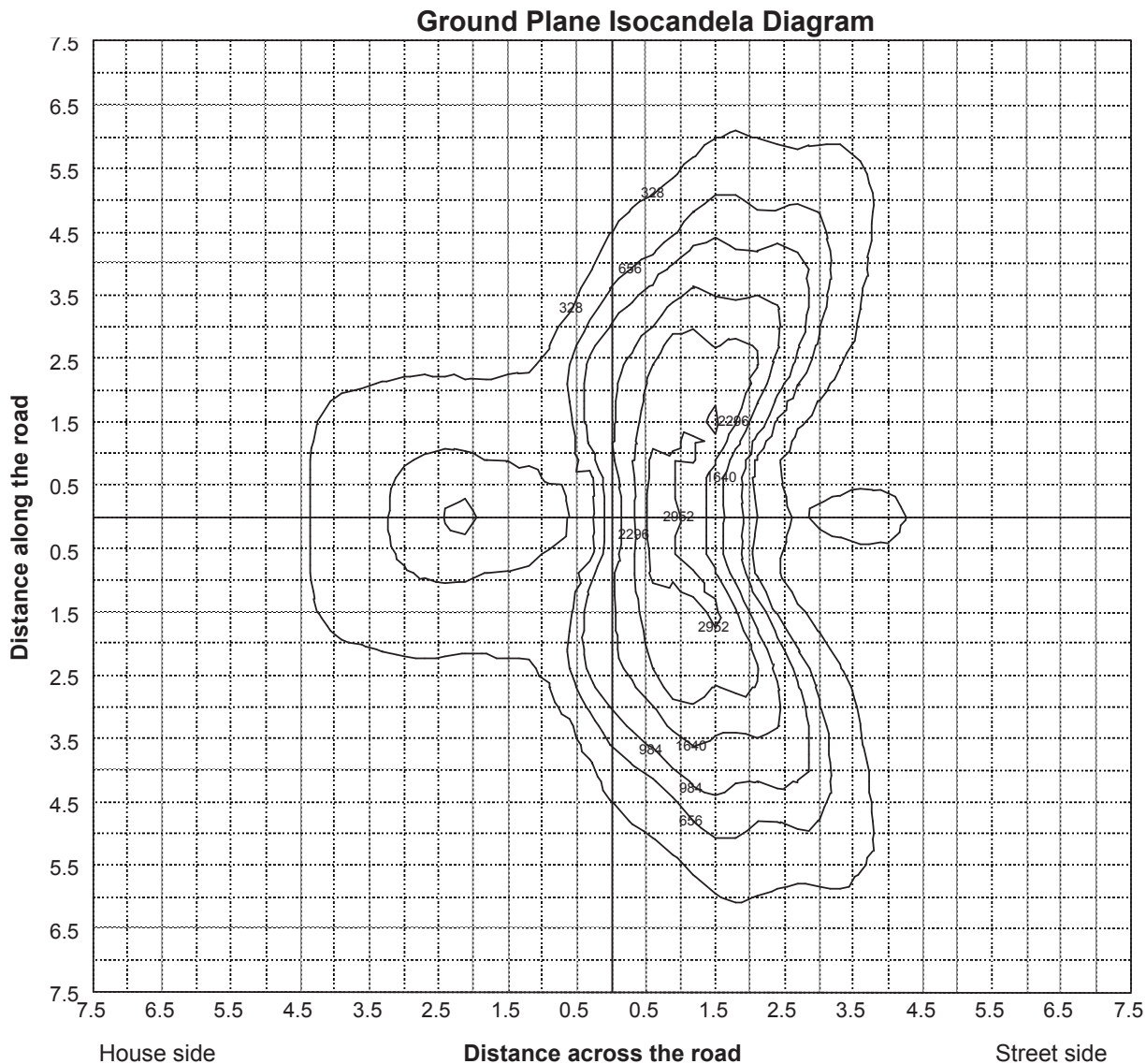
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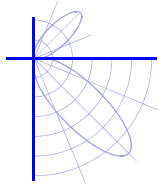
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The isocandela contour units are expressed as cd

Upstream and downstream sides have been averaged.



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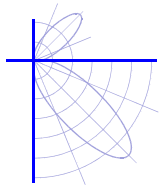
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Intensity data (cd)

Vertical	L-Plane								
	L0	L15	L30	L40	L45	L50	L55	L60	L65
0.0	1185	1185	1185	1185	1185	1185	1185	1185	1185
10.0	1579	1554	1508	1464	1438	1412	1384	1353	1324
20.0	2494	2396	2210	2015	1898	1785	1681	1590	1507
30.0	3280	3199	3046	2821	2655	2459	2286	2085	1903
35.0	3268	3209	3189	3095	2986	2839	2622	2410	2182
40.0	3134	3082	3122	3169	3137	3061	2911	2687	2450
45.0	3004	2952	2970	3096	3115	3118	3068	2911	2649
47.5	2926	2889	2916	3033	3067	3102	3092	2969	2719
50.0	2764	2769	2885	2976	3009	3064	3083	2997	2774
52.5	2493	2572	2859	2956	2963	3002	3049	3006	2804
55.0	2212	2270	2803	2990	2944	2934	2983	2990	2832
57.5	1795	1939	2630	3064	2959	2879	2901	2955	2862
60.0	1343	1451	2311	3126	3022	2840	2816	2907	2891
62.5	970	1017	1885	3041	3075	2835	2739	2848	2917
65.0	605	611	1367	2742	3052	2882	2698	2777	2932
67.5	395	379	866	2266	2861	2954	2690	2685	2910
70.0	285	264	529	1616	2469	2933	2678	2505	2717
72.5	374	207	362	1011	1812	2539	2560	2181	2268
75.0	466	151	250	628	1117	1763	2116	1808	1646
77.5	273	102	168	348	531	902	1344	1282	1008
80.0	137	51	87	152	234	354	576	699	498
82.5	45	21	30	53	74	108	164	201	167
85.0	7	7	8	9	10	12	16	15	11
87.5	4	4	4	4	4	4	4	4	4
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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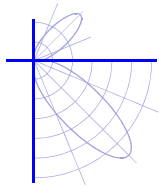
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Intensity data (cd)

Vertical	L-Plane								
	L70	L75	L80	L85	L90	L95	L100	L105	L110
0.0	1185	1185	1185	1185	1185	1185	1185	1185	1185
10.0	1295	1263	1232	1201	1170	1140	1108	1077	1042
20.0	1433	1360	1295	1233	1168	1101	1029	953	873
30.0	1755	1615	1493	1377	1248	1111	979	855	745
35.0	1980	1810	1663	1534	1409	1264	1066	858	707
40.0	2206	1989	1811	1657	1522	1371	1175	954	704
45.0	2355	2100	1892	1721	1576	1423	1239	1011	743
47.5	2411	2137	1918	1737	1584	1428	1243	1020	745
50.0	2461	2160	1921	1736	1583	1422	1237	1010	737
52.5	2511	2183	1930	1735	1577	1412	1224	993	720
55.0	2551	2213	1935	1724	1558	1391	1199	966	698
57.5	2600	2243	1944	1722	1548	1375	1174	933	673
60.0	2663	2290	1964	1726	1542	1363	1144	895	630
62.5	2729	2340	1976	1725	1533	1351	1090	821	572
65.0	2789	2381	1986	1719	1520	1281	1005	741	505
67.5	2828	2405	1966	1674	1421	1160	900	641	415
70.0	2714	2271	1775	1456	1177	941	677	428	326
72.5	2351	1924	1413	1129	885	649	386	259	264
75.0	1787	1476	1011	777	603	345	189	182	208
77.5	1075	899	574	426	324	153	112	125	139
80.0	543	488	289	216	146	72	71	75	78
82.5	123	139	99	83	49	28	31	36	38
85.0	10	10	10	10	10	10	10	11	11
87.5	4	4	4	4	4	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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Intensity data (cd)

Vertical	L-Plane								
	L115	L120	L125	L130	L135	L140	L150	L165	L180
0.0	1185	1185	1185	1185	1185	1185	1185	1185	1185
10.0	1010	979	948	919	890	864	821	776	763
20.0	798	734	675	625	585	562	556	595	619
30.0	646	554	498	491	518	563	608	636	645
35.0	587	506	480	514	559	575	594	682	728
40.0	550	486	503	555	564	564	620	799	866
45.0	532	481	535	555	557	563	645	931	1028
47.5	528	485	536	550	550	556	657	969	1048
50.0	520	487	527	543	543	547	686	939	986
52.5	511	485	512	531	533	542	709	862	903
55.0	501	478	494	517	526	545	708	811	857
57.5	491	466	473	498	511	550	691	779	846
60.0	471	450	449	471	486	548	656	778	909
62.5	441	423	425	437	456	529	626	808	998
65.0	399	389	399	401	428	500	608	864	1031
67.5	348	349	368	367	403	463	590	845	992
70.0	298	303	331	333	366	423	554	766	843
72.5	247	247	279	295	312	370	474	637	672
75.0	190	194	214	225	254	298	379	489	484
77.5	134	141	148	157	183	218	280	321	278
80.0	82	86	92	98	113	122	157	153	152
82.5	40	40	42	44	47	50	47	46	62
85.0	12	13	12	10	9	8	7	7	11
87.5	3	3	3	2	2	2	1	0	0
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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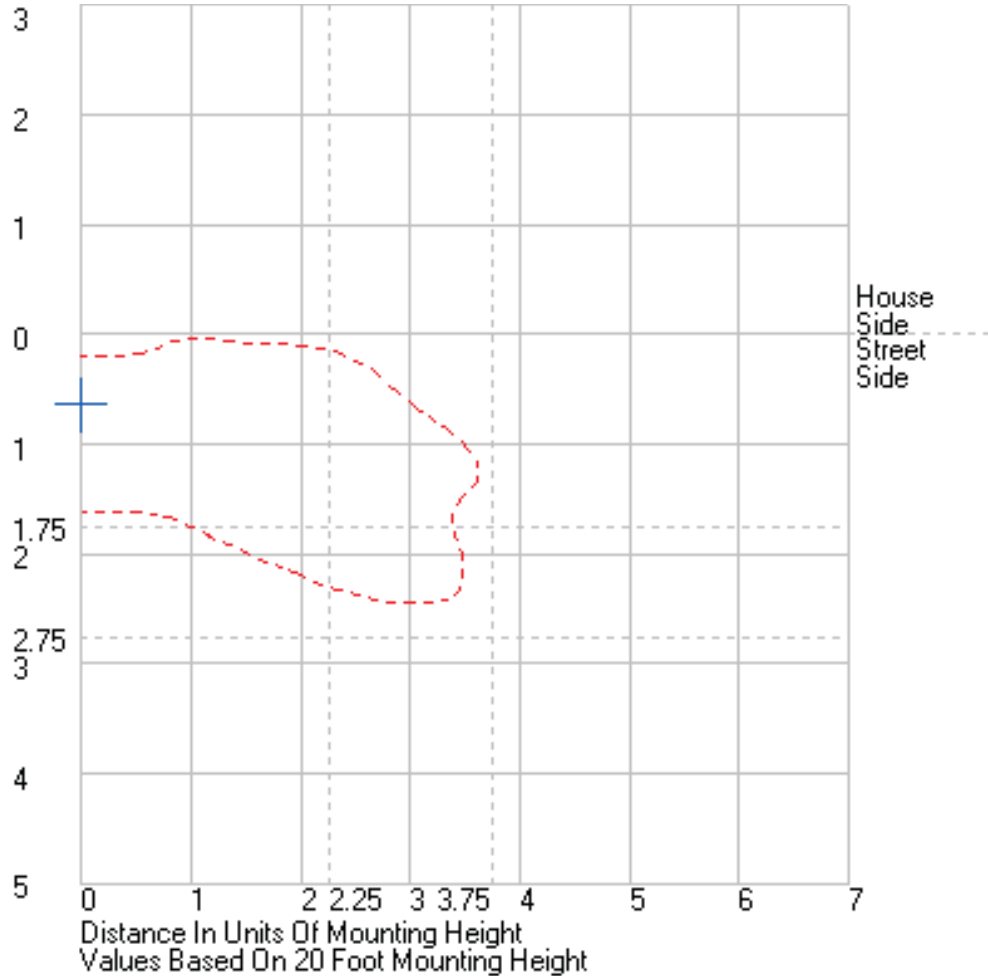
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LM-79 Performance Data

Spectral	CIE 1931 (x, y) ⁽¹⁾	(0.436, 0.405)
	CIE 1976 (u', v') ⁽¹⁾	(0.250, 0.521)
	Correlated Color Temperature (CCT) ⁽¹⁾	3020 K
	Spatial Δ (u', v') Uniformity ⁽²⁾	2.18E-03
	Color Rendering Index (Ra) ⁽¹⁾	71.4
	Special CRI 9 (R ₉) ^{(1),(3)}	-40.1
	Distance from Planckian Locus (Duv) ^{(1),(3)}	3.12E-04
	Scotopic/Photopic Ratio ^{(1),(3)}	1.23

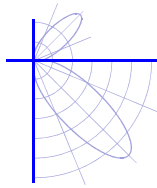
Electrical	Voltage	120.0 V	(Setpoint 1)
	Frequency	60.0 Hz	
	Current	0.492 A	
	Power	57.1 W	
	Power Factor	0.97	
	Current THD	3.5 %	
	Voltage	277.0 V	(Setpoint 2)
	Frequency	60.0 Hz	
	Current	0.211 A	
	Power	55.9 W	
	Power Factor	0.96	
	Current THD	9.3 %	

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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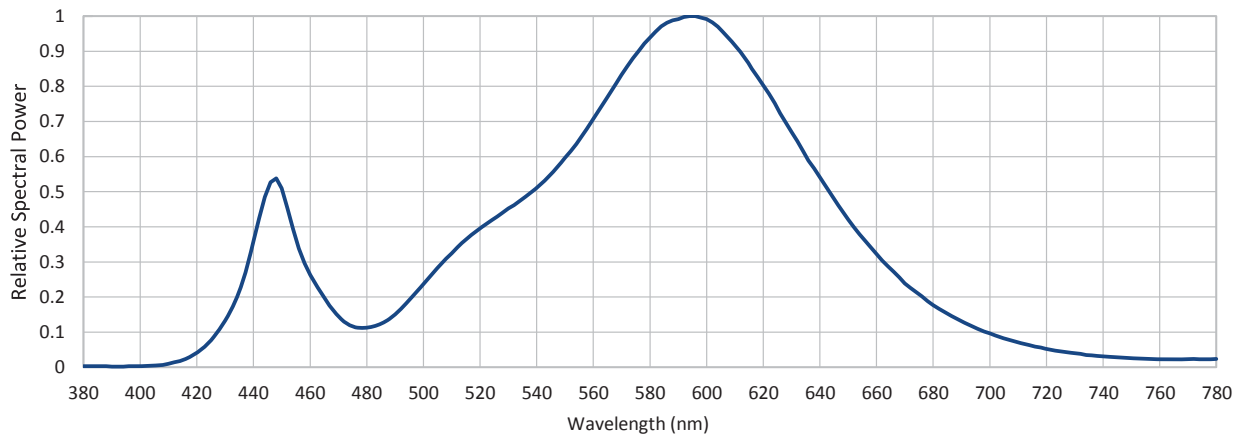
Operating at 120v AC and 60 Hz.

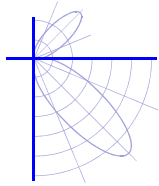
LM-79 Performance Data

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	0.263	540	0.511	620	0.803	700	0.097
385	0.003	465	0.198	545	0.550	625	0.738	705	0.082
390	0.002	470	0.144	550	0.596	630	0.670	710	0.071
395	0.003	475	0.117	555	0.648	635	0.603	715	0.061
400	0.003	480	0.113	560	0.707	640	0.542	720	0.052
405	0.005	485	0.124	565	0.770	645	0.478	725	0.045
410	0.010	490	0.151	570	0.833	650	0.422	730	0.040
415	0.021	495	0.191	575	0.890	655	0.370	735	0.035
420	0.041	500	0.237	580	0.939	660	0.323	740	0.031
425	0.078	505	0.283	585	0.976	665	0.280	745	0.029
430	0.133	510	0.325	590	0.991	670	0.239	750	0.026
435	0.218	515	0.364	595	1.000	675	0.208	755	0.024
440	0.358	520	0.396	600	0.991	680	0.177	760	0.023
445	0.506	525	0.424	605	0.962	685	0.153	765	0.023
450	0.510	530	0.452	610	0.917	690	0.131	770	0.023
455	0.365	535	0.480	615	0.863	695	0.112	775	0.023
								780	0.024





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LED Roadway Lighting - Roadway luminaire. Product ID: QB 00 616S X 5 53 X 3G3M XXXX XXXX
Grey cast aluminum top housing and white plastic bottom housing with clear flat glass lens.
16 LEDs in 4 x 4 array with clear plastic sheet of individual lenses.
One Osram Optotronic LED driver. Model: QT50W/UNV/1250C/2DIMLT2/P6 set to 1050ma.
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	(0.249, 0.521)	(0.250, 0.521)
10.0	(0.249, 0.521)	(0.251, 0.522)
20.0	(0.250, 0.522)	(0.250, 0.521)
30.0	(0.251, 0.523)	(0.249, 0.520)
40.0	(0.251, 0.523)	(0.250, 0.521)
50.0	(0.250, 0.522)	(0.249, 0.521)
60.0	(0.250, 0.521)	(0.250, 0.521)
70.0	(0.250, 0.523)	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 2.0 / 18.0 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 *RT*



Test Report No. LLI-19244-12

LED Roadway Lighting - Roadway luminaire. Product ID: QB 00 616S X 5 53 X 3G3M XXXX XXXX

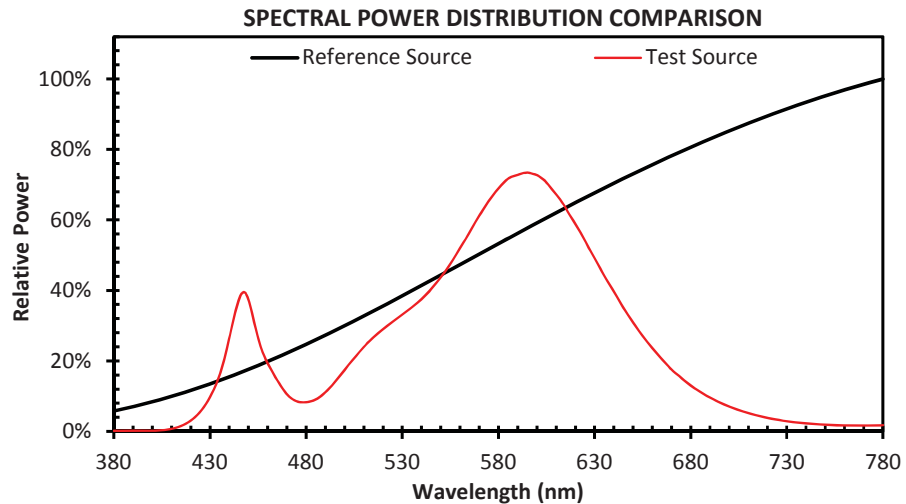
Grey cast aluminum top housing and white plastic bottom housing with clear flat glass lens.

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

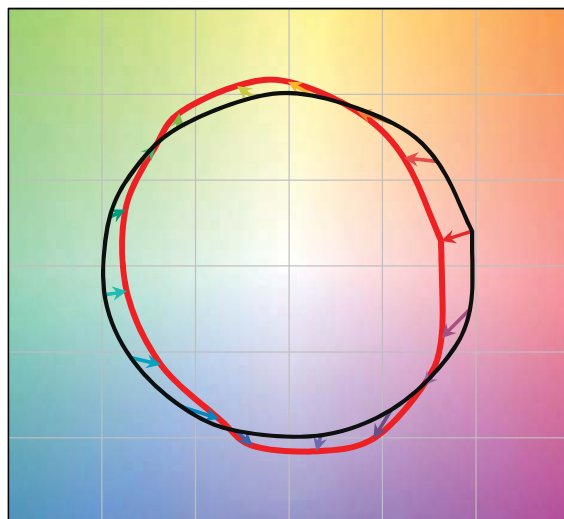
One Osram Optotronic LED driver. Model: QT50W/UNV/1250C/2DIMLT2/P6 set to 1050ma.

Operating at 120v AC and 60 Hz.

R_f	72
R_g	93



COLOR VECTOR GRAPHIC



— Test Source

→ Series1

COLOR DISTORTION GRAPHIC





Test Report No. LLI-19244-12

LED Roadway Lighting - Roadway luminaire. Product ID: QB 00 616S X 5 53 X 3G3M XXXX XXXX
Grey cast aluminum top housing and white plastic bottom housing with clear flat glass lens.
16 LEDs in 4 x 4 array with clear plastic sheet of individual lenses.
One Osram Optotronic LED driver. Model: QT50W/UNV/1250C/2DIMLT2/P6 set to 1050ma.
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.