



## Report of Test LLI-21208-12

LED Roadway Lighting - Roadway luminaire. Product ID: "NXT-60M-0-X-3LM-7-XX-4-XX-X-XX-0424"

Grey cast aluminum housing with fins and clear flat glass lens.

60 LEDs in two square arrays with clear plastic sheets of individual lenses.

One LED Roadway LED driver. Model: J150UNv3 set to 700ma.

Operating at 120v AC and 60 Hz.

With black plastic back light shield.



### Performance Summary

Total Light Output	9601 lm	Min Power Factor	0.95 @ 240 V
Luminaire Power	126.7 W	Max THD(i)*	6.3 % @ 240 V
Luminous Efficacy	75.8 lm/W	0-90° Zonal Flux %	100.0 %
CCT	3080 K	80-90° Zonal Flux %	0.6 %
CIE(x,y) 1931	(0.429, 0.397)	BUG Rating*	B2-U0-G2
CRI	74	Street Classification*	Type III Short

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

**Prepared for : LED Roadway Lighting Ltd, 84 Chain Lake Drive, Halifax. NS Canada**



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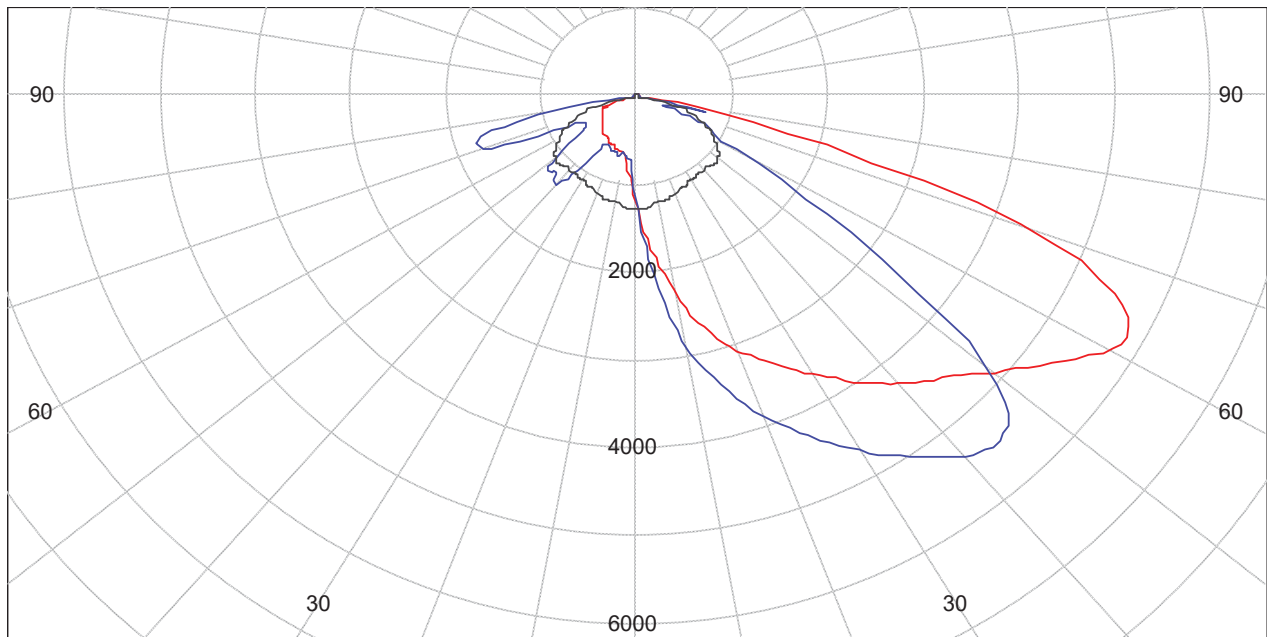
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### Polar Light Distribution Curves



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 %	83.1 %	83.1 %
House Side	0.0 %	16.9 %	16.9 %
	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

25-Aug-2021  
26-Aug-2021

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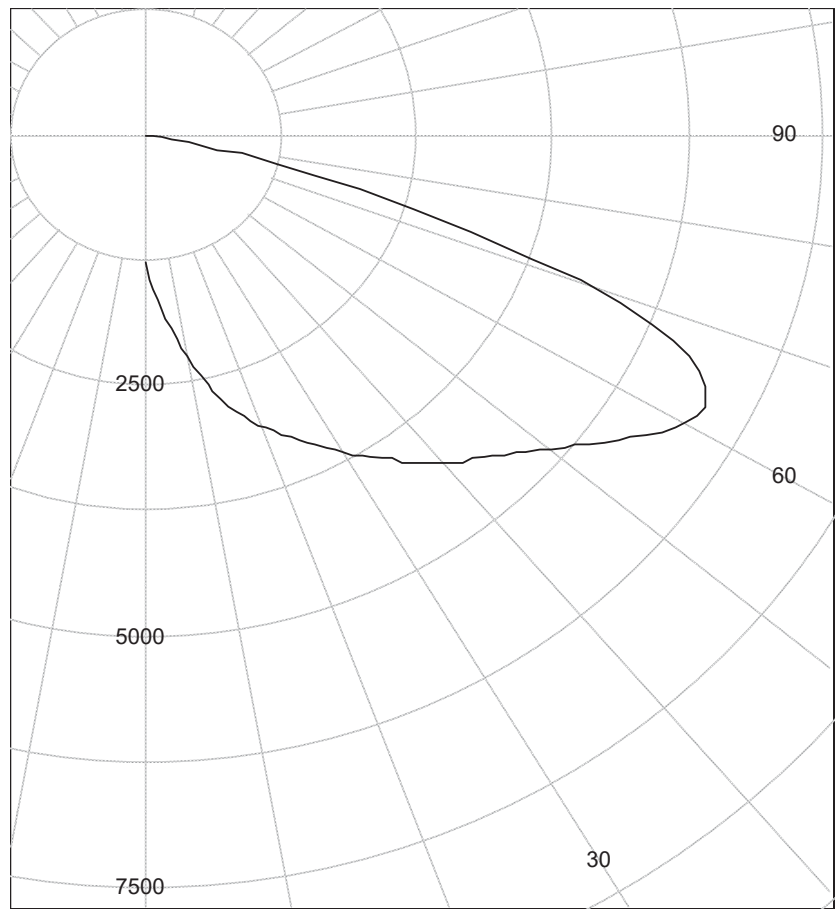
Operating at 120v AC and 60 Hz.

With black plastic back light shield.

Intensity in principal plane  
(based on overall max intensity)

Vertical Angle (°)	Intensity (cd)
0.0	1277.6
10.0	2253.6
20.0	3075.5
30.0	3650.0
35.0	3965.4
40.0	4269.6
45.0	4527.3
47.5	4687.9
50.0	4877.6
52.5	5084.2
55.0	5305.8
57.5	5554.5
60.0	5758.8
62.5	5801.9
65.0	5632.2
67.5	5154.3
70.0	4276.2
72.5	2865.3
75.0	1628.4
77.5	797.8
80.0	258.5
82.5	55.9
85.0	12.7
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

1776.9 cd @ (180.0°, 72.0°)

Street side max intensity

5814.2 cd @ (50.0°, 61.5°)

Coordinates expressed in the C Type coordinate system

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





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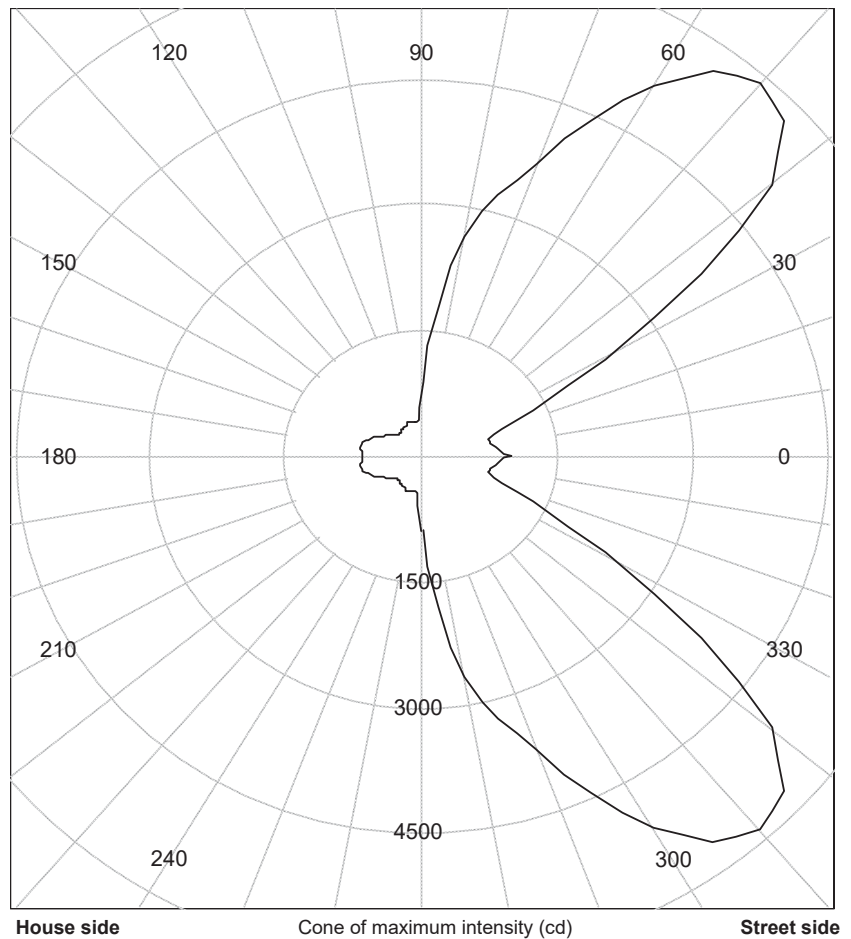
Operating at 120v AC and 60 Hz.

With black plastic back light shield.

Intensity in principal cone  
(based on overall max intensity)

Lateral Plane (°)	(V61.5) (cd)
0	974.7
15	738.7
30	2331.9
40	5037.7
45	5647.5
50	5814.2
55	5611.8
60	5131.9
65	4452.3
70	3734.8
75	3224.4
80	2684.8
85	1815.6
90	892.3
95	440.0
100	400.6
105	419.2
110	445.0
115	434.7
120	402.8
125	386.9
130	389.0
135	383.7
140	396.8
150	480.5
165	667.3
180	653.0

### Principal Conical Surface



House side max intensity

1776.9 cd @ (180.0°, 72.0°)

Street side max intensity

5814.2 cd @ (50.0°, 61.5°)

Coordinates expressed in the C Type coordinate system

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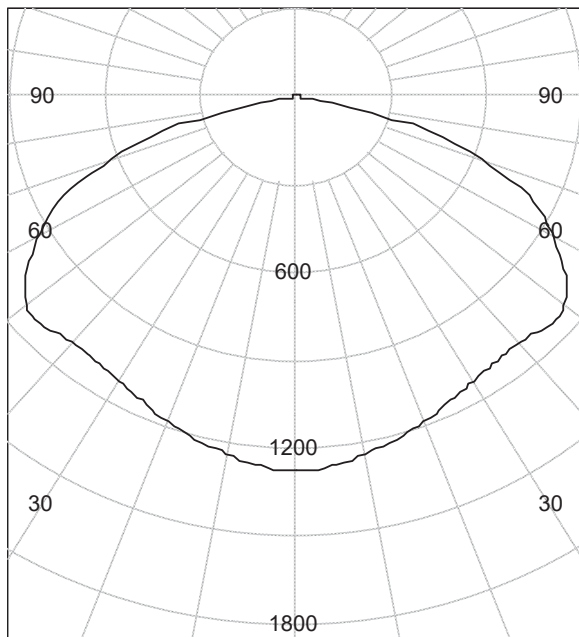
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**Polar curve through L90 / L270**

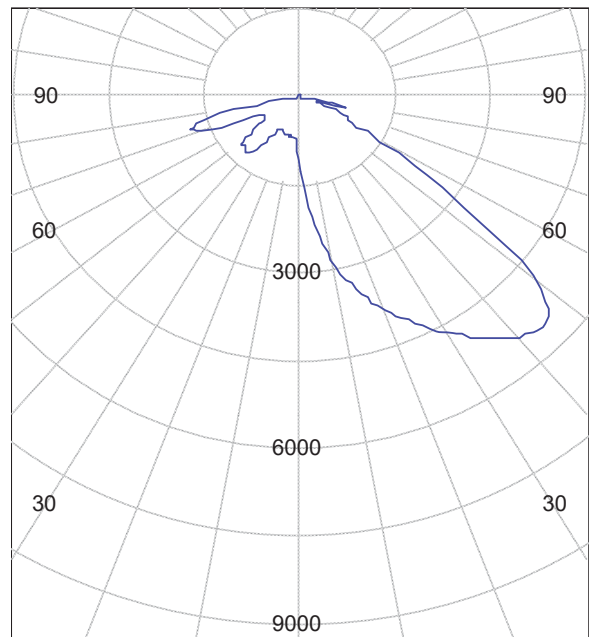


(L90)

(cd)

(L270)

**Polar curve through L0 / L180**



House side (L180)

(cd)

Street side (L0)



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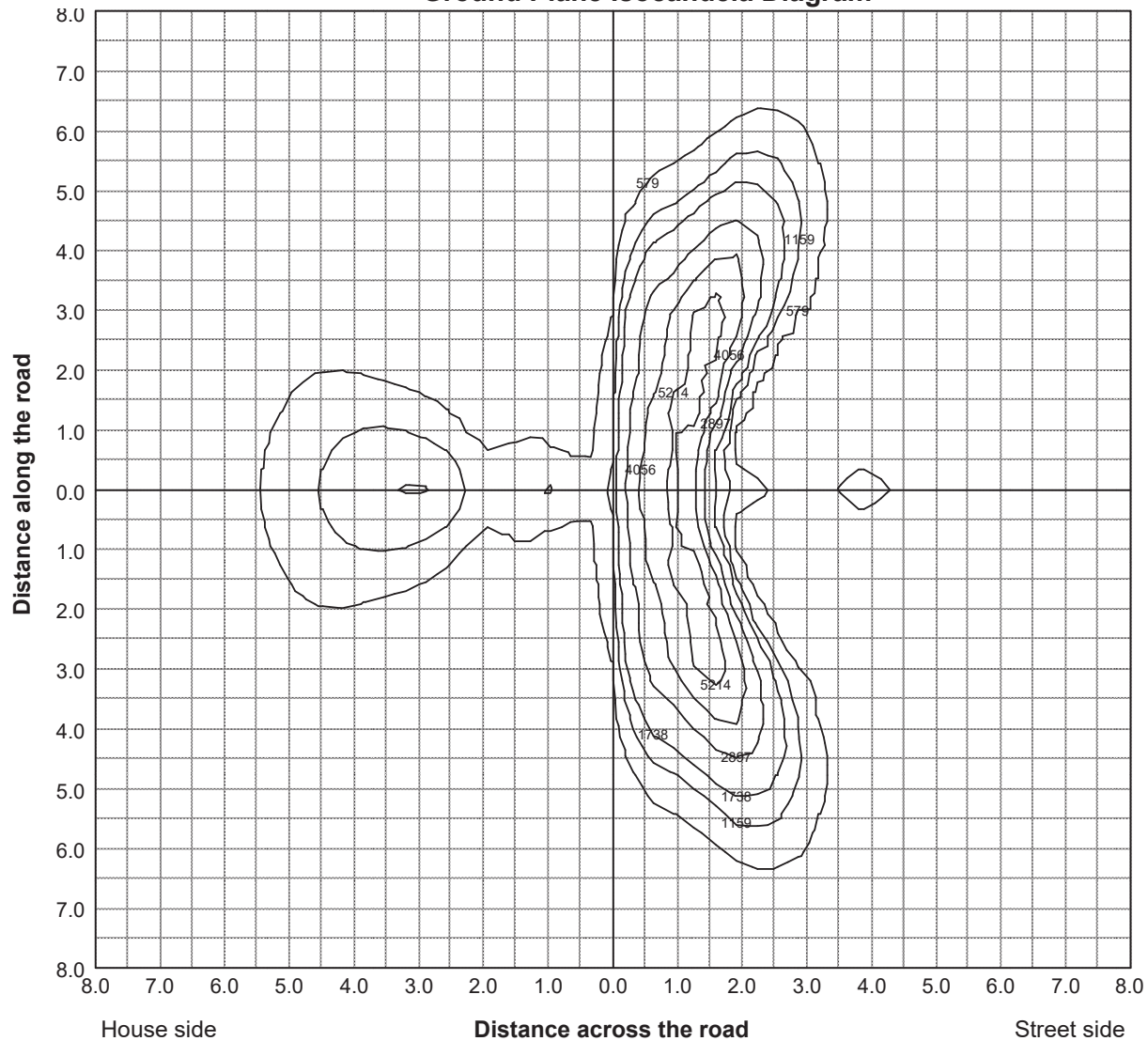
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### Ground Plane Isocandela Diagram



The isocandela contour units are expressed as cd

Upstream and downstream sides have been averaged.



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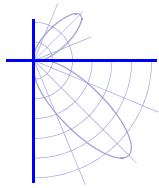
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Operating at 120v AC and 60 Hz.

With black plastic back light shield.

Intensity data (cd)									
Vertical	L-Plane								
	L0	L15	L30	L40	L45	L50	L55	L60	L65
0.0	1278	1278	1278	1278	1278	1278	1278	1278	1278
10.0	2844	2779	2622	2456	2354	2254	2133	2010	1878
20.0	3866	3771	3579	3355	3215	3075	2903	2710	2479
30.0	4661	4569	4319	4012	3833	3650	3435	3223	2998
35.0	5003	4937	4698	4377	4159	3965	3759	3561	3299
40.0	5352	5305	5068	4672	4473	4270	4005	3766	3513
45.0	5434	5383	5268	4949	4741	4527	4262	3972	3696
47.5	5251	5269	5322	5066	4891	4688	4419	4129	3833
50.0	4753	4957	5311	5172	5052	4878	4617	4310	3963
52.5	3925	4326	5178	5271	5211	5084	4851	4528	4103
55.0	2722	3384	4908	5335	5379	5306	5117	4782	4249
57.5	1968	2137	4302	5356	5527	5554	5388	4999	4357
60.0	1210	1163	3267	5267	5640	5759	5579	5116	4430
62.5	890	564	1705	4733	5583	5802	5613	5139	4474
65.0	772	404	709	3428	4987	5632	5618	5200	4548
67.5	575	321	400	1750	3657	5154	5623	5339	4765
70.0	345	260	392	711	2084	4276	5436	5643	5165
72.5	299	198	340	497	997	2865	4887	5783	5556
75.0	750	139	305	399	587	1628	3610	5009	5160
77.5	479	90	221	417	459	798	1843	3165	3953
80.0	212	51	73	176	269	258	623	1204	1641
82.5	48	25	34	52	54	56	77	141	226
85.0	15	10	11	12	12	13	13	13	13
87.5	2	3	3	3	3	4	4	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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One LED Roadway LED driver. Model: J150UNv3 set to 700ma.

Operating at 120v AC and 60 Hz.

With black plastic back light shield.

Intensity data (cd)									
Vertical	L-Plane								
	L70	L75	L80	L85	L90	L95	L100	L105	L110
0.0	1278	1278	1278	1278	1278	1278	1278	1278	1278
10.0	1747	1612	1483	1360	1239	1128	1030	945	867
20.0	2225	1954	1683	1426	1180	975	810	695	645
30.0	2702	2316	1900	1492	1117	826	640	586	575
35.0	2948	2520	2038	1547	1101	768	596	562	553
40.0	3171	2736	2205	1625	1093	712	563	538	529
45.0	3398	2978	2415	1744	1109	675	536	507	499
47.5	3508	3096	2529	1809	1119	661	526	495	482
50.0	3623	3209	2624	1852	1106	631	498	475	468
52.5	3734	3283	2679	1855	1075	595	472	453	448
55.0	3792	3284	2674	1837	1031	553	452	436	434
57.5	3771	3250	2655	1810	976	506	428	421	425
60.0	3739	3226	2659	1804	926	464	409	415	430
62.5	3746	3234	2721	1830	867	423	395	424	456
65.0	3834	3341	2863	1875	800	386	378	434	469
67.5	4076	3481	2998	1907	711	347	352	423	457
70.0	4371	3619	3112	1924	614	299	307	383	406
72.5	4542	3574	3010	1778	502	244	248	289	308
75.0	4036	2894	2359	1448	378	185	183	203	235
77.5	3096	1973	1465	882	205	119	120	142	175
80.0	1518	826	510	338	81	63	71	83	98
82.5	257	166	105	132	32	24	31	36	39
85.0	13	12	11	10	9	9	9	9	9
87.5	5	5	4	4	4	4	4	3	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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One LED Roadway LED driver. Model: J150UNv3 set to 700ma.

Operating at 120v AC and 60 Hz.

With black plastic back light shield.

Intensity data (cd)									
Vertical	L-Plane								
	L115	L120	L125	L130	L135	L140	L150	L165	L180
0.0	1278	1278	1278	1278	1278	1278	1278	1278	1278
10.0	800	752	719	699	687	681	678	678	682
20.0	631	625	626	634	644	652	660	669	678
30.0	575	579	582	581	582	586	591	615	639
35.0	553	554	554	557	564	570	598	803	928
40.0	528	525	526	536	552	593	800	1158	1295
45.0	498	491	489	501	537	613	789	1072	1207
47.5	479	475	469	479	506	555	714	1144	1237
50.0	460	459	451	455	474	509	712	1169	1090
52.5	439	438	436	431	446	477	741	1039	851
55.0	420	415	415	412	424	455	703	881	699
57.5	409	399	395	398	409	433	618	778	644
60.0	421	397	388	393	394	409	527	709	636
62.5	446	409	386	384	376	390	455	644	700
65.0	468	425	385	368	357	373	417	679	958
67.5	464	425	409	356	338	363	419	902	1421
70.0	418	392	423	351	320	350	489	1162	1716
72.5	338	318	338	310	279	317	517	1291	1766
75.0	256	238	239	221	216	260	485	1222	1571
77.5	168	159	154	151	157	195	400	960	1187
80.0	96	96	94	95	103	129	242	430	462
82.5	41	41	42	45	47	53	88	128	133
85.0	9	9	9	9	10	11	25	35	5
87.5	3	3	3	3	2	3	3	2	1
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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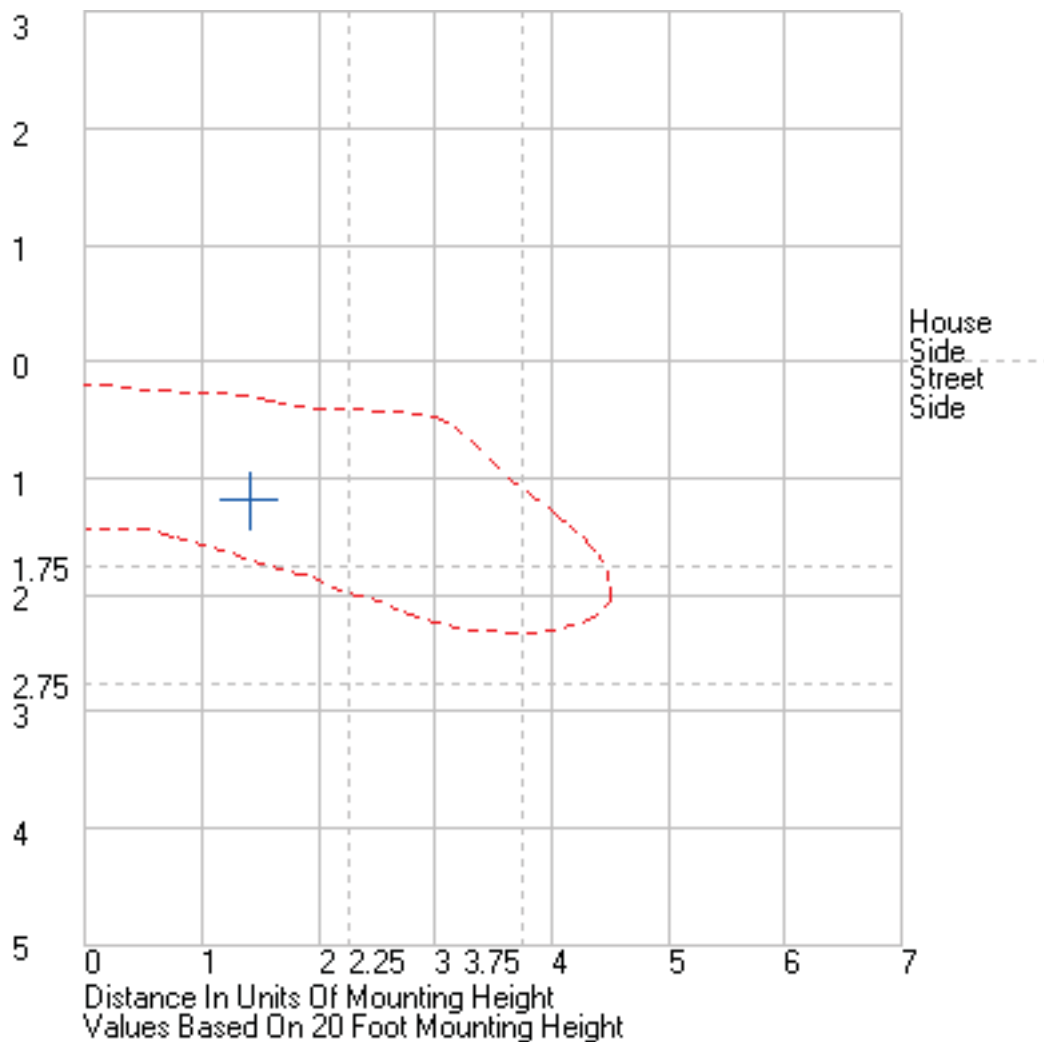
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### LM-79-08 Performance Data

<b>Spectral</b>	CIE 1931 (x, y) <sup>(1)</sup>	(0.429, 0.397)
	CIE 1976 (u', v') <sup>(1)</sup>	(0.249, 0.517)
	Correlated Color Temperature (CCT) <sup>(1)</sup>	3080 K
	Spatial Δ (u', v') Uniformity <sup>(2)</sup>	0.0151
	Color Rendering Index (Ra) <sup>(1)</sup>	73.5
	Special CRI 9 (R <sub>9</sub> ) <sup>(1),(3)</sup>	-22.2
	Distance from Planckian Locus (Duv) <sup>(1),(3)</sup>	-1.83E-03
	Scotopic/Photopic Ratio <sup>(1),(3)</sup>	1.23

<b>Electrical</b>	Voltage	120.0 V	(Setpoint 1)
	Frequency	60.0 Hz	
	Current	1.061 A	
	Power	127 W	
	Power Factor	1.00	
	Current THD	0.7 %	
	Voltage	240.0 V	(Setpoint 2)
	Frequency	60.0 Hz	
	Current	0.548 A	
	Power	125 W	
	Power Factor	0.95	
	Current THD	6.3 %	

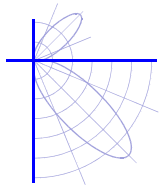
Performance data in accordance with IESNA LM-79-08. Spectral calculations are for a CIE 2° observer

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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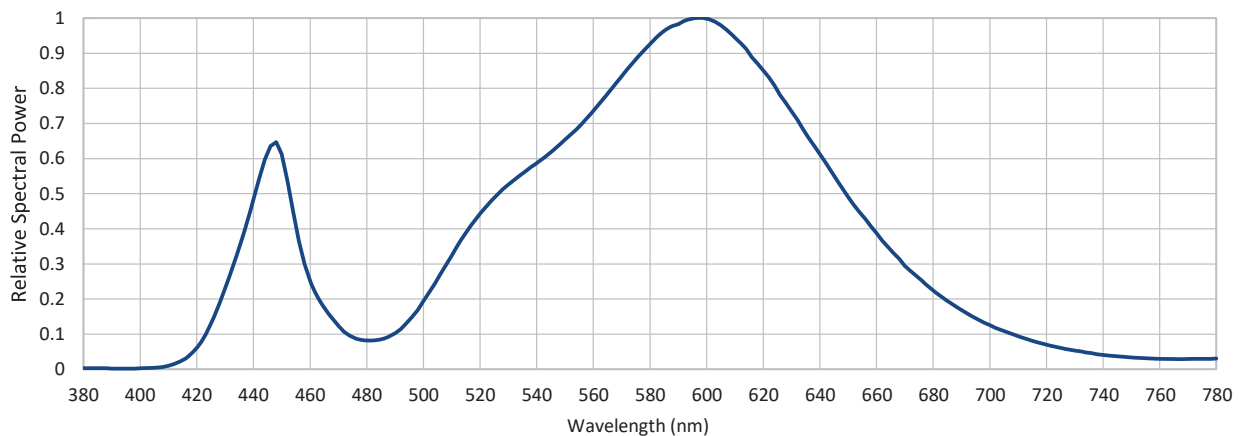
With black plastic back light shield.

### LM-79-08 Performance Data

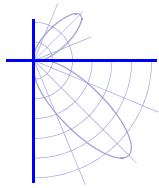
#### Relative spectral power distribution

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

$\lambda$ (nm)	Relative Power	$\lambda$ (nm)	Relative Power	$\lambda$ (nm)	Relative Power	$\lambda$ (nm)	Relative Power	$\lambda$ (nm)	Relative Power
380	0.003	460	0.251	540	0.587	620	0.851	700	0.126
385	0.003	465	0.176	545	0.619	625	0.794	705	0.109
390	0.002	470	0.123	550	0.654	630	0.734	710	0.094
395	0.002	475	0.092	555	0.692	635	0.672	715	0.081
400	0.003	480	0.082	560	0.736	640	0.614	720	0.070
405	0.004	485	0.085	565	0.784	645	0.550	725	0.061
410	0.010	490	0.103	570	0.834	650	0.492	730	0.053
415	0.027	495	0.140	575	0.882	655	0.437	735	0.047
420	0.061	500	0.194	580	0.926	660	0.388	740	0.041
425	0.131	505	0.258	585	0.964	665	0.340	745	0.037
430	0.230	510	0.324	590	0.983	670	0.295	750	0.033
435	0.349	515	0.389	595	0.998	675	0.259	755	0.031
440	0.483	520	0.443	600	0.999	680	0.224	760	0.030
445	0.617	525	0.489	605	0.979	685	0.195	765	0.029
450	0.613	530	0.526	610	0.944	690	0.169	770	0.029
455	0.408	535	0.558	615	0.901	695	0.146	775	0.030
								780	0.031







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With black plastic back light shield.

### LM-79-08 Performance Data

#### Spatial measurements

Vert. angle (°)	CIE 1976 (u',v') coordinates	
	Horiz. 0.0° plane	Horiz. ° plane
0.0	( 0.249, 0.518)	( 0.249, 0.516)
10.0	( 0.249, 0.519)	( 0.247, 0.508)
20.0	( 0.249, 0.520)	( 0.247, 0.505)
30.0	( 0.250, 0.521)	( 0.247, 0.507)
40.0	( 0.250, 0.523)	( 0.247, 0.512)
50.0	( 0.251, 0.524)	( 0.249, 0.522)
60.0	( 0.251, 0.528)	( 0.251, 0.532)
70.0	( 0.251, 0.531)	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 3.25 / 15.25 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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## Test Report No. LLI-21208-12

LED Roadway Lighting - Roadway luminaire. Product ID: "NXT-60M-0-X-3LM-7-XX-4-XX-X-XX-0424"

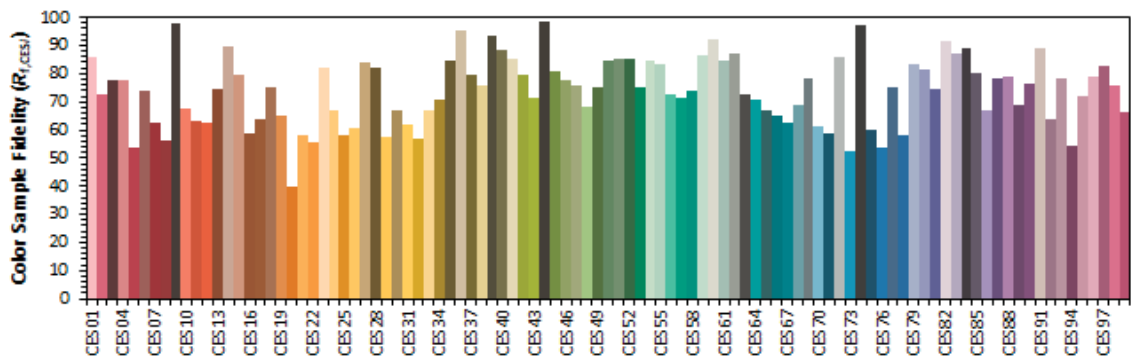
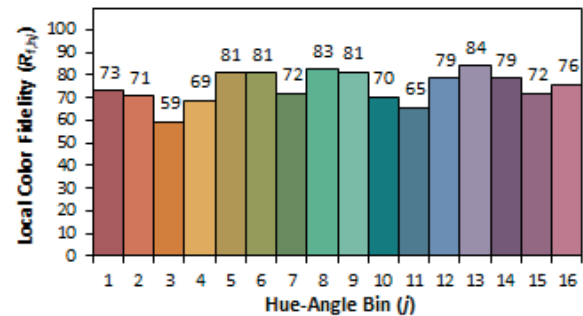
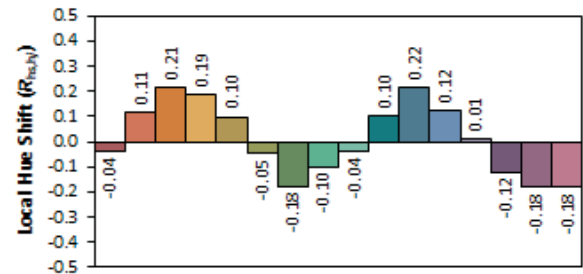
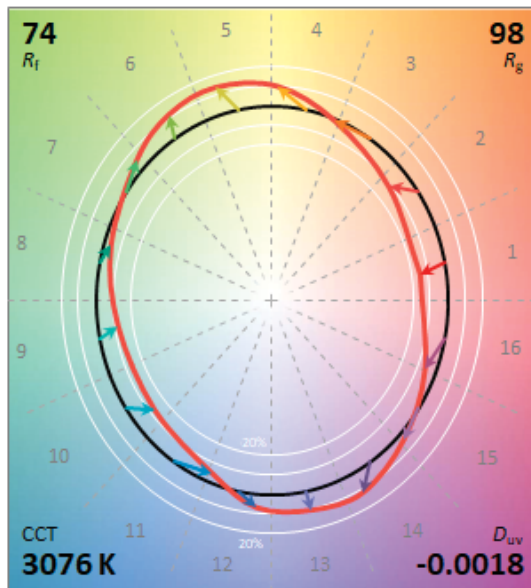
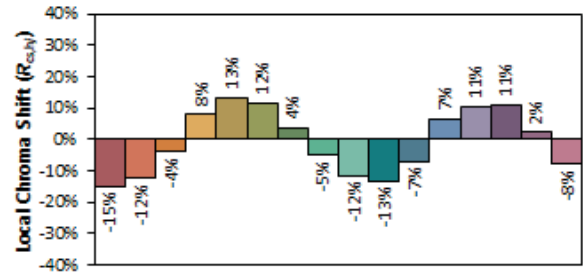
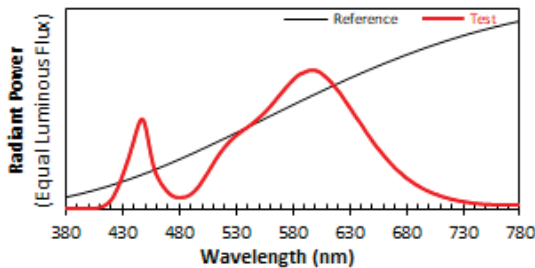
Grey cast aluminum housing with fins and clear flat glass lens.

60 LEDs in two square arrays with clear plastic sheets of individual lenses.

One LED Roadway LED driver. Model: J150UNv3 set to 700ma.

Operating at 120v AC and 60 Hz.

With black plastic back light shield.





## Test Report No. LLI-21208-12

LED Roadway Lighting - Roadway luminaire. Product ID: "NXT-60M-0-X-3LM-7-XX-4-XX-X-XX-0424"

Grey cast aluminum housing with fins and clear flat glass lens.

60 LEDs in two square arrays with clear plastic sheets of individual lenses.

One LED Roadway LED driver. Model: J150UNv3 set to 700ma.

Operating at 120v AC and 60 Hz.

With black plastic back light shield.

**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.

Customer supplied information is identified in this report by enclosing it in double quotes

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.