



Report of Test LLI-21208-11

LED Roadway Lighting - Roadway luminaire. Product ID: "NXT-72M-0-X-3LM-7-XX-4-XX-X-XX-0424"

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

72 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	11496 lm	Min Power Factor	0.96 @ 240 V
Luminaire Power	150.3 W	Max THD(i)*	7.9 % @ 240 V
Luminous Efficacy	76.5 lm/W	0-90° Zonal Flux %	100.0 %
CCT	3090 K	80-90° Zonal Flux %	0.6 %
CIE(x,y) 1931	(0.429, 0.396)	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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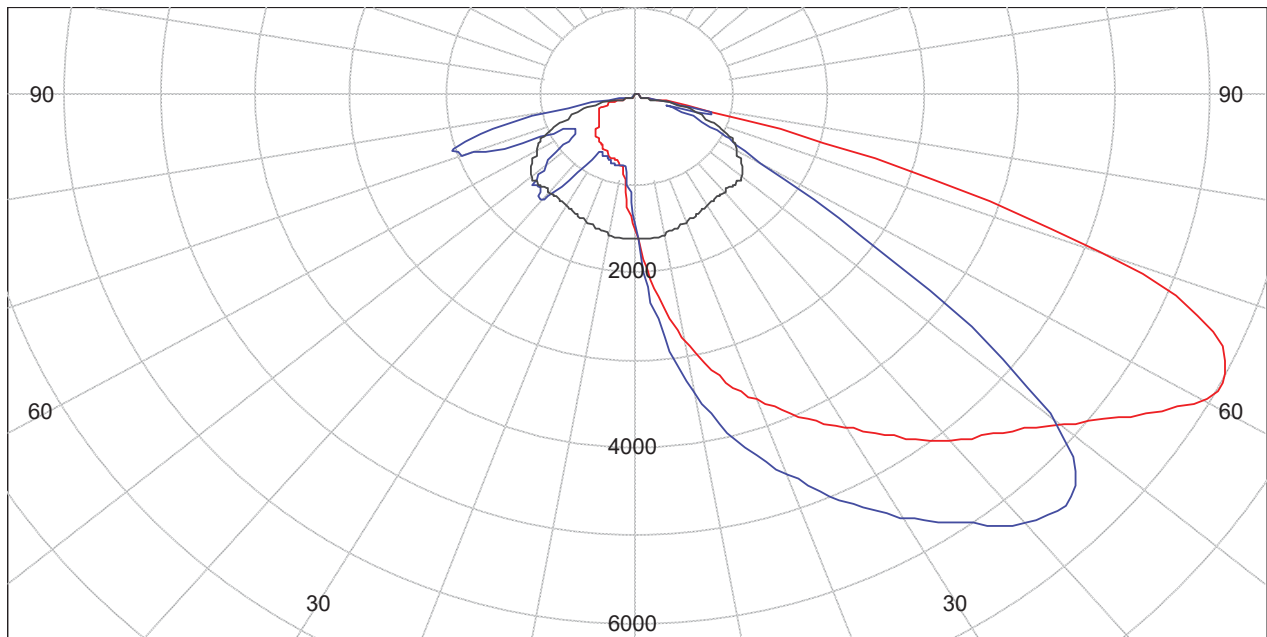
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Polar Light Distribution Curves



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 %	83.4 %	83.4 %
House Side	0.0 %	16.6 %	16.6 %
	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

26-Aug-2021
26-Aug-2021

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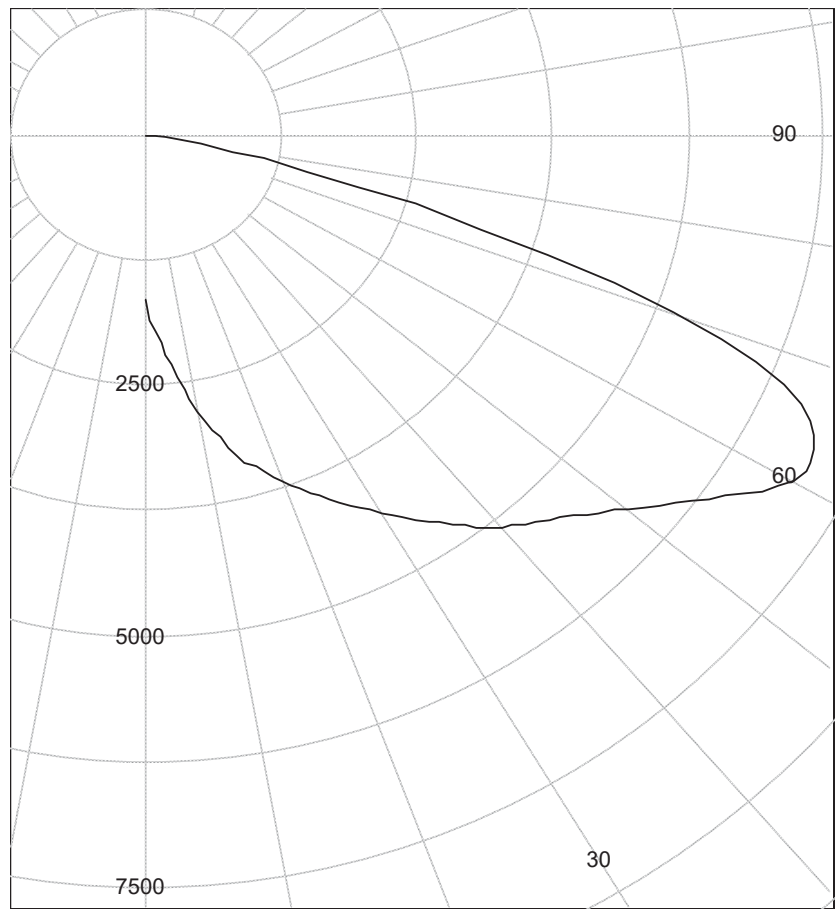
Operating at 120v AC and 60 Hz.

With black plastic back light shield.

Intensity in principal plane
(based on overall max intensity)

Vertical Angle (°)	Intensity (L50.0) (cd)
0.0	1647.1
10.0	2788.1
20.0	3684.3
30.0	4350.0
35.0	4729.8
40.0	5096.4
45.0	5405.9
47.5	5593.2
50.0	5815.8
52.5	6063.2
55.0	6331.8
57.5	6631.2
60.0	6890.2
62.5	6943.3
65.0	6760.6
67.5	6234.2
70.0	5172.7
72.5	3563.8
75.0	2036.3
77.5	965.7
80.0	330.0
82.5	85.1
85.0	19.4
87.5	5.3
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

2030.9 cd @ (180.0°, 72.0°)

Street side max intensity

6956.4 cd @ (50.0°, 62.0°)

Coordinates expressed in the C Type coordinate system

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



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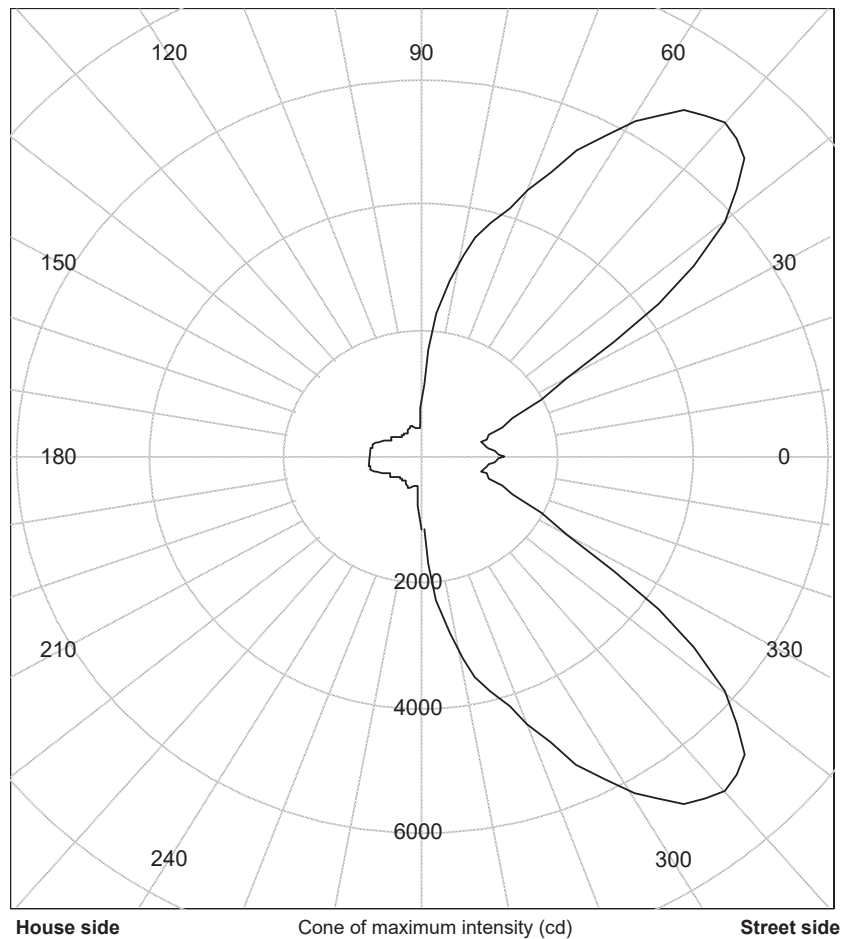
Operating at 120v AC and 60 Hz.

With black plastic back light shield.

Intensity in principal cone
(based on overall max intensity)

Lateral Plane (°)	(V62.0) (cd)
0	1177.2
15	887.6
30	2452.1
40	5821.0
45	6712.4
50	6956.4
55	6746.7
60	6198.5
65	5390.3
70	4499.9
75	3870.3
80	3263.0
85	2281.9
90	1156.5
95	536.0
100	470.0
105	495.6
110	528.5
115	520.2
120	480.8
125	454.8
130	455.1
135	447.9
140	460.8
150	547.4
165	767.1
180	778.5

Principal Conical Surface



House side max intensity

2030.9 cd @ (180.0°, 72.0°)

Street side max intensity

6956.4 cd @ (50.0°, 62.0°)

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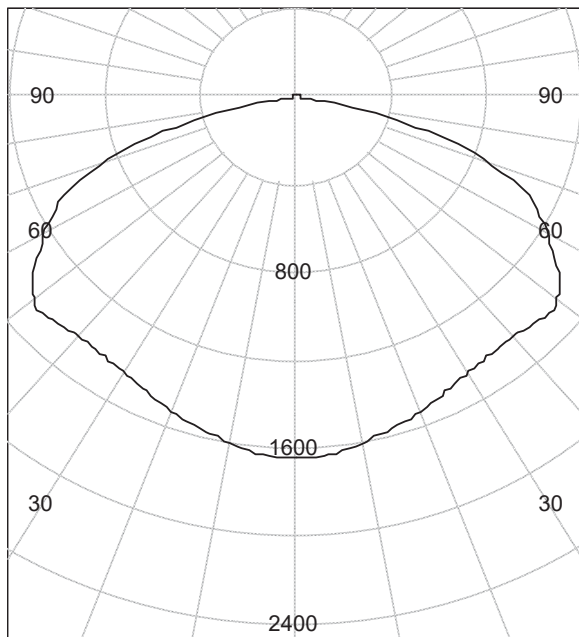
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Polar curve through L90 / L270

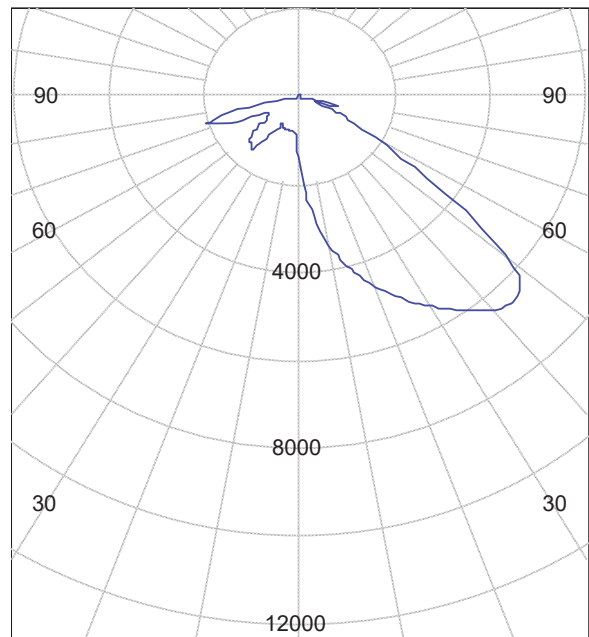


(L90)

(cd)

(L270)

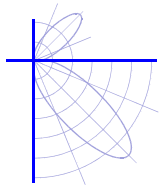
Polar curve through L0 / L180



House side (L180)

(cd)

Street side (L0)



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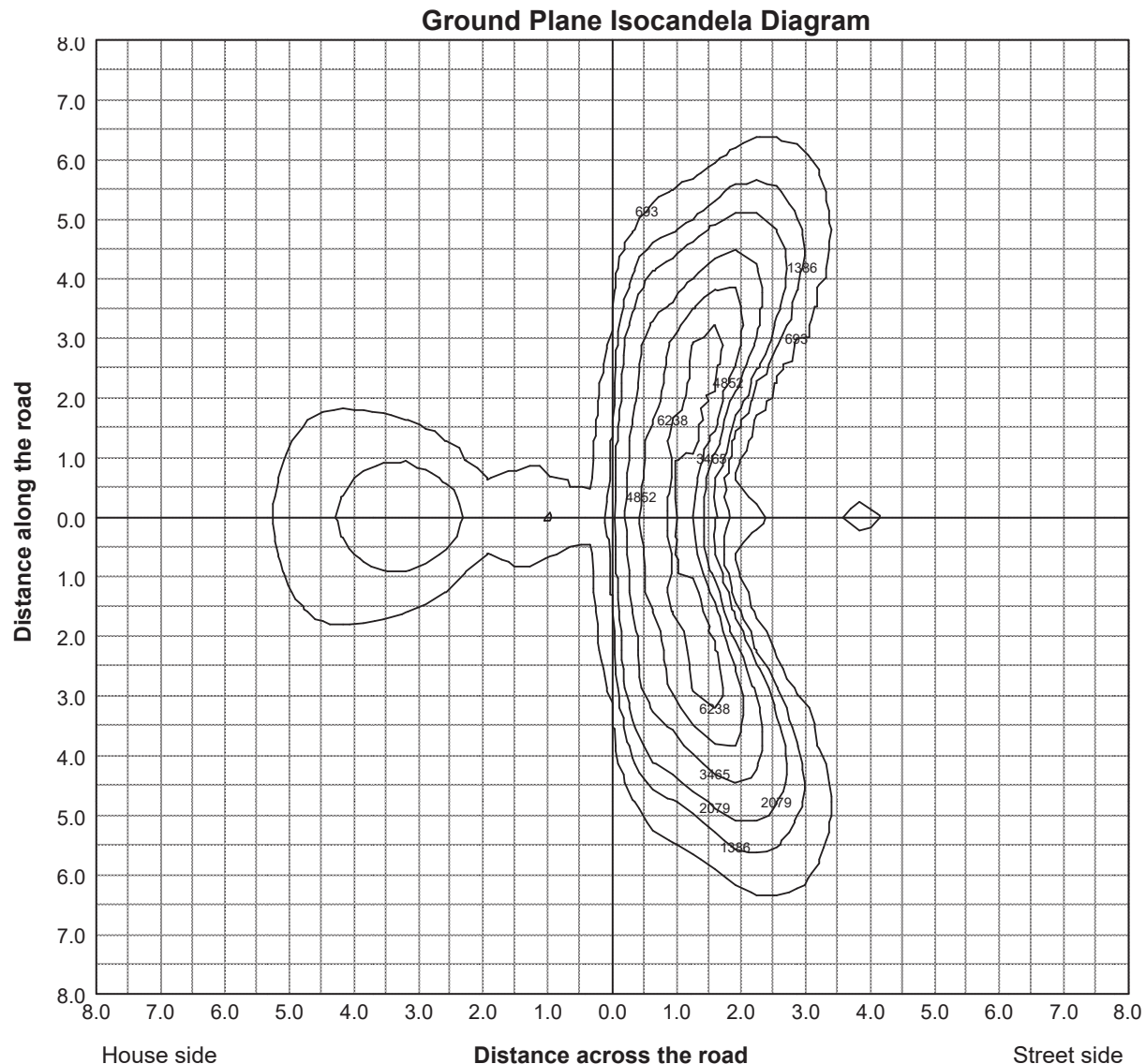
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The isocandela contour units are expressed as cd

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	1647	1647	1647	1647	1647	1647	1647	1647	1647
10.0	3430	3361	3191	3011	2903	2788	2651	2513	2363
20.0	4582	4485	4259	4003	3847	3684	3487	3274	3027
30.0	5525	5430	5138	4778	4566	4350	4100	3857	3602
35.0	5924	5867	5594	5221	4965	4730	4482	4252	3948
40.0	6331	6298	6034	5581	5343	5096	4782	4492	4191
45.0	6440	6408	6268	5907	5664	5406	5084	4745	4409
47.5	6218	6272	6331	6043	5839	5593	5274	4926	4575
50.0	5637	5887	6323	6169	6021	5816	5513	5149	4732
52.5	4629	5142	6162	6287	6208	6063	5792	5416	4912
55.0	3236	4005	5818	6356	6404	6332	6109	5727	5104
57.5	2366	2577	5113	6377	6583	6631	6447	5999	5243
60.0	1508	1483	3884	6259	6713	6890	6681	6154	5344
62.5	1125	796	2113	5632	6663	6943	6751	6205	5401
65.0	922	554	963	4169	5968	6761	6769	6276	5485
67.5	676	411	557	2210	4458	6234	6757	6426	5735
70.0	404	321	487	961	2647	5173	6531	6740	6163
72.5	347	239	403	627	1287	3564	5869	6856	6609
75.0	812	168	354	470	725	2036	4312	5895	6082
77.5	519	111	255	475	538	966	2307	3810	4632
80.0	231	65	91	206	316	330	868	1536	1959
82.5	62	35	46	69	72	85	142	234	321
85.0	22	16	17	18	18	19	21	20	19
87.5	5	6	5	5	5	5	6	6	7
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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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	1647	1647	1647	1647	1647	1647	1647	1647	1647
10.0	2205	2048	1895	1747	1598	1464	1340	1229	1127
20.0	2744	2437	2125	1819	1523	1272	1055	890	795
30.0	3260	2847	2377	1900	1446	1082	817	703	681
35.0	3541	3069	2537	1968	1429	1007	743	666	654
40.0	3801	3306	2729	2060	1419	933	685	636	625
45.0	4054	3579	2969	2202	1438	876	640	600	588
47.5	4183	3715	3095	2277	1449	853	629	583	569
50.0	4319	3851	3205	2334	1434	803	591	562	553
52.5	4464	3944	3261	2335	1394	754	561	535	529
55.0	4537	3948	3248	2308	1337	699	538	515	512
57.5	4525	3908	3219	2272	1268	638	508	496	500
60.0	4501	3876	3218	2259	1207	582	485	488	505
62.5	4506	3876	3286	2293	1143	525	467	498	534
65.0	4607	3993	3448	2351	1067	472	445	508	549
67.5	4876	4154	3602	2390	954	418	414	493	531
70.0	5211	4317	3739	2414	831	354	361	444	469
72.5	5442	4267	3586	2187	672	286	292	333	357
75.0	4790	3451	2796	1757	517	216	215	236	270
77.5	3636	2367	1756	1077	286	140	141	166	198
80.0	1770	976	629	424	114	75	83	96	110
82.5	318	187	135	164	47	30	38	43	45
85.0	17	16	14	13	12	12	12	12	11
87.5	7	6	6	5	5	5	5	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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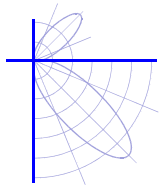
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Intensity data (cd)									
Vertical	L-Plane								
	L115	L120	L125	L130	L135	L140	L150	L165	L180
0.0	1647	1647	1647	1647	1647	1647	1647	1647	1647
10.0	1039	966	910	872	846	826	807	800	804
20.0	752	740	740	748	757	764	768	778	788
30.0	679	681	682	681	684	687	692	719	748
35.0	651	650	650	655	662	669	700	931	1075
40.0	621	617	617	630	650	695	937	1363	1523
45.0	586	577	575	589	632	722	932	1278	1442
47.5	564	559	552	562	595	652	841	1350	1458
50.0	542	540	531	534	556	597	837	1373	1287
52.5	518	516	513	506	522	558	867	1228	1003
55.0	496	490	489	484	496	532	822	1045	820
57.5	485	472	466	466	477	508	724	922	757
60.0	498	470	456	460	463	480	617	838	738
62.5	527	485	455	453	444	456	533	753	808
65.0	550	501	456	435	421	438	485	796	1110
67.5	544	496	481	420	399	422	489	1040	1610
70.0	486	457	485	411	369	400	561	1304	1942
72.5	391	366	387	354	312	356	582	1463	2029
75.0	293	271	273	249	238	286	543	1322	1685
77.5	190	181	173	163	172	215	421	1002	1242
80.0	109	108	103	102	111	140	252	453	475
82.5	46	45	45	48	50	55	88	123	124
85.0	12	11	11	11	12	12	23	32	5
87.5	4	4	4	3	3	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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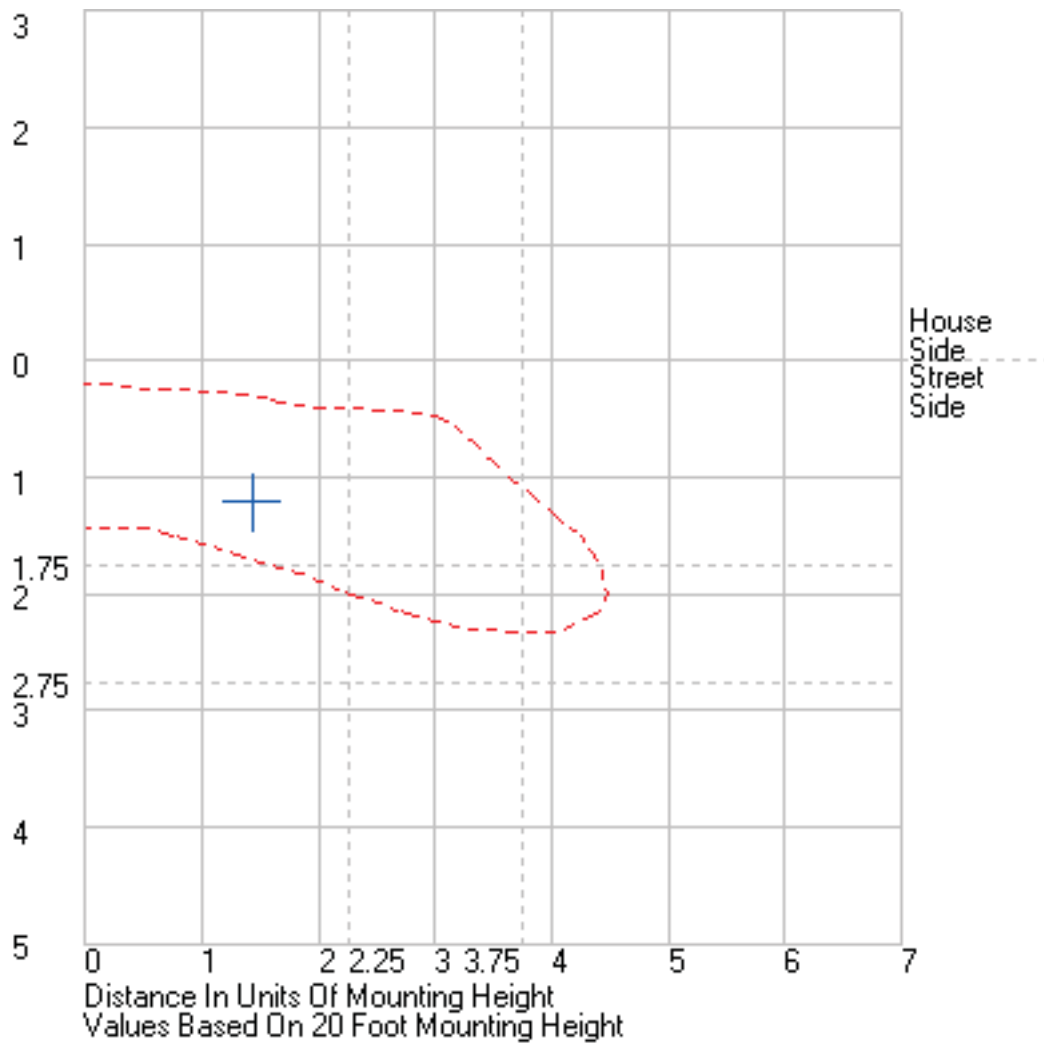
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LM-79-08 Performance Data

Spectral	CIE 1931 (x, y) ⁽¹⁾	(0.429, 0.396)
	CIE 1976 (u', v') ⁽¹⁾	(0.248, 0.517)
	Correlated Color Temperature (CCT) ⁽¹⁾	3090 K
	Spatial Δ (u', v') Uniformity ⁽²⁾	0.0153
	Color Rendering Index (Ra) ⁽¹⁾	73.5
	Special CRI 9 (R ₉) ^{(1),(3)}	-22.2
	Distance from Planckian Locus (Duv) ^{(1),(3)}	-1.83E-03
	Scotopic/Photopic Ratio ^{(1),(3)}	1.24

Electrical	Voltage	120.0 V	(Setpoint 1)
	Frequency	60.0 Hz	
	Current	1.263 A	
	Power	150 W	
	Power Factor	0.99	
	Current THD	7.0 %	
	Voltage	240.0 V	(Setpoint 2)
	Frequency	60.0 Hz	
	Current	0.641 A	
	Power	147 W	
	Power Factor	0.96	
	Current THD	7.9 %	

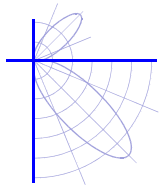
Performance data in accordance with IESNA LM-79-08. Spectral calculations are for a CIE 2° observer

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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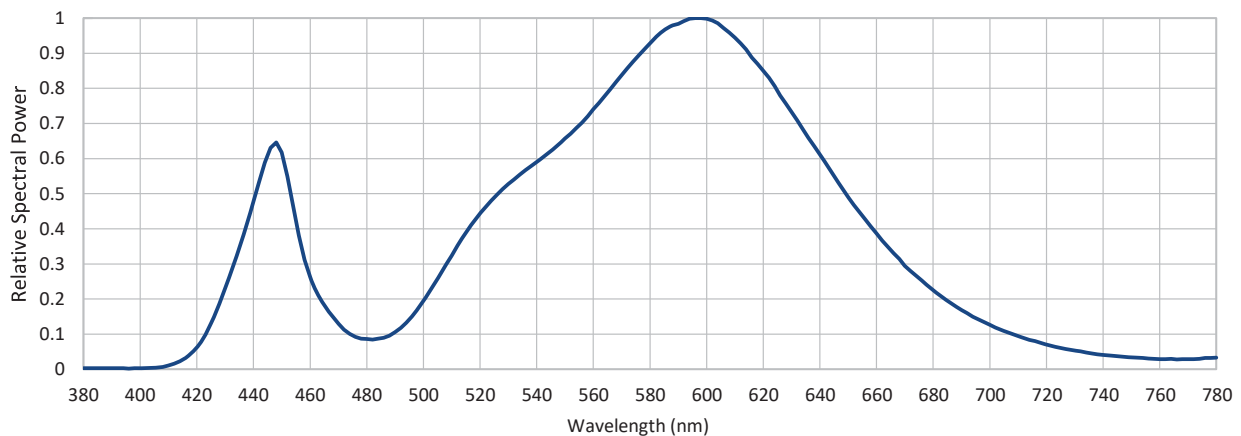
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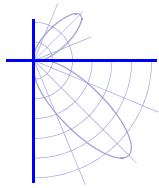
LM-79-08 Performance Data

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	0.262	540	0.590	620	0.850	700	0.127
385	0.003	465	0.183	545	0.622	625	0.793	705	0.109
390	0.003	470	0.130	550	0.657	630	0.733	710	0.094
395	0.002	475	0.096	555	0.695	635	0.671	715	0.082
400	0.003	480	0.086	560	0.740	640	0.613	720	0.070
405	0.005	485	0.088	565	0.788	645	0.549	725	0.061
410	0.011	490	0.106	570	0.837	650	0.491	730	0.053
415	0.027	495	0.142	575	0.885	655	0.437	735	0.047
420	0.062	500	0.195	580	0.928	660	0.387	740	0.041
425	0.132	505	0.258	585	0.965	665	0.340	745	0.037
430	0.230	510	0.324	590	0.984	670	0.295	750	0.034
435	0.347	515	0.389	595	0.999	675	0.260	755	0.031
440	0.477	520	0.444	600	0.998	680	0.225	760	0.029
445	0.610	525	0.490	605	0.978	685	0.195	765	0.029
450	0.618	530	0.528	610	0.944	690	0.169	770	0.029
455	0.423	535	0.561	615	0.900	695	0.146	775	0.031
								780	0.033





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LM-79-08 Performance Data

Spatial measurements

Vert. angle (°)	CIE 1976 (u',v') coordinates	
	Horiz. 0.0° plane	Horiz. ° plane
0.0	(0.248, 0.517)	(0.248, 0.515)
10.0	(0.249, 0.518)	(0.247, 0.508)
20.0	(0.249, 0.519)	(0.246, 0.505)
30.0	(0.249, 0.520)	(0.246, 0.506)
40.0	(0.250, 0.522)	(0.247, 0.511)
50.0	(0.250, 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 1.5 / 3.75 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
CIE (u', v') coordinates ± 0.002
Spatial Δ (u', v') uniformity ± 0.001
Rel. Spectral Irradiance * ± 2 %
Duv * ± 5E-04

CCT ± 100 K
CRI (Ra) ± 2
Scotopic / Photopic Ratio * ± 0.02
R9 * ± 2

Yokogawa WT210 power meter connected in circuit to the sample electrical supply

Voltage ± 0.5 %
Current ± 0.5 %
Current THD ± 3 %
Frequency * ± 0.1 Hz
Power ± 0.5 %
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-21208-11

LED Roadway Lighting - Roadway luminaire. Product ID: "NXT-72M-0-X-3LM-7-XX-4-XX-X-XX-0424"

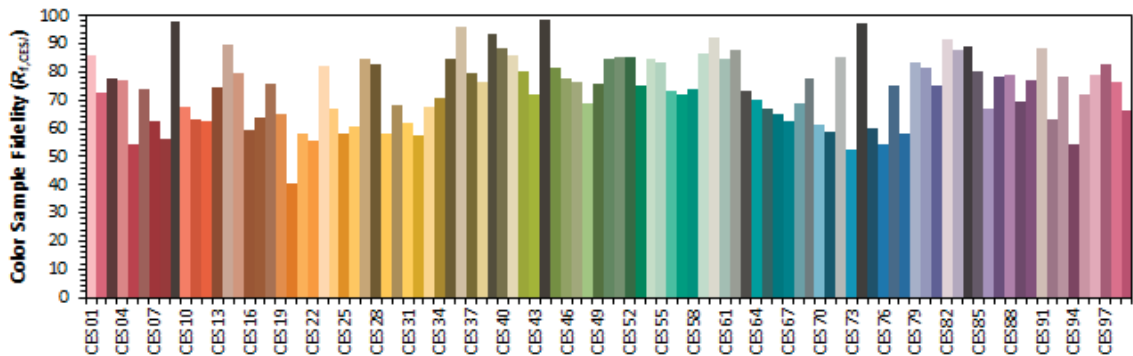
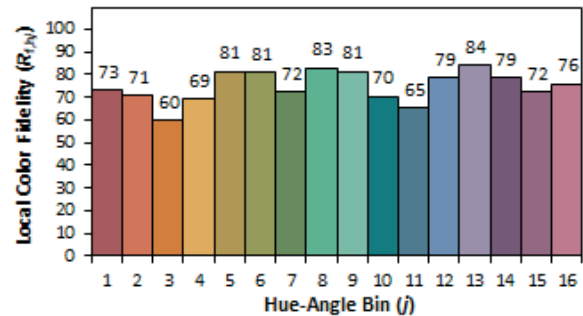
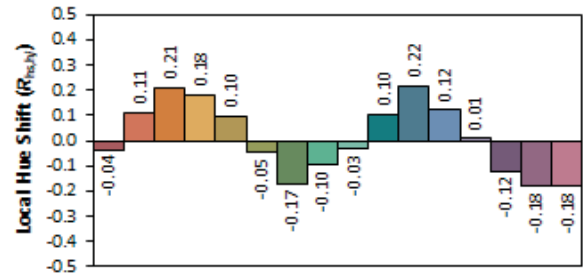
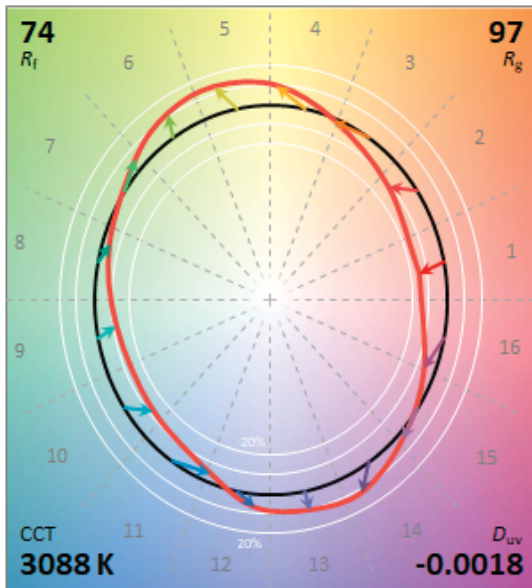
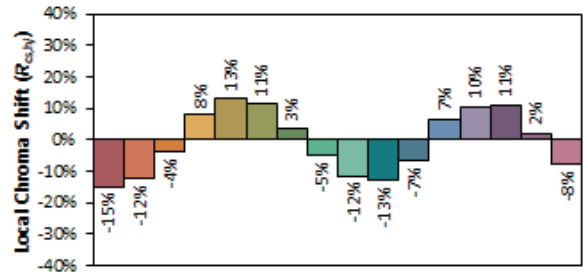
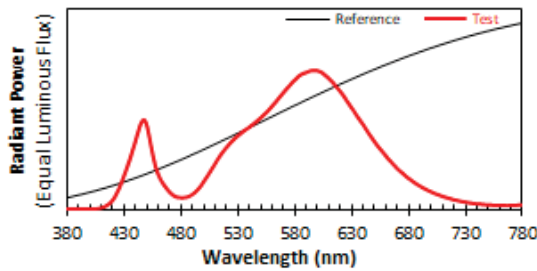
Grey cast aluminum housing with fins and clear flat glass lens.

72 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-21208-11

LED Roadway Lighting - Roadway luminaire. Product ID: "NXT-72M-0-X-3LM-7-XX-4-XX-X-XX-0424"

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

72 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 25.3 °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.

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.