



## Report of Test LLI-21208-14

LED Roadway Lighting - Roadway luminaire. Product ID: "NXT-36S-0-X-3LM-7-XX-4-XX-X-XX-0424"

Grey cast aluminum housing with clear flat glass lens.

36 LEDs in one square array with clear plastic sheet of individual lenses.

One LED Roadway LED driver. Model: J100UNv2 1-10V set to 700ma.

Operating at 120v AC and 60 Hz.

With black plastic back light shield.



### Performance Summary

Total Light Output	5693 lm	Min Power Factor	0.94 @ 240 V
Luminaire Power	76.8 W	Max THD(i)*	4.0 % @ 120 V
Luminous Efficacy	74.1 lm/W	0-90° Zonal Flux %	100.0 %
CCT	3170 K	80-90° Zonal Flux %	0.6 %
CIE(x,y) 1931	(0.423, 0.393)	BUG Rating*	B1-U0-G1
CRI	74	Street Classification*	Type III Medium

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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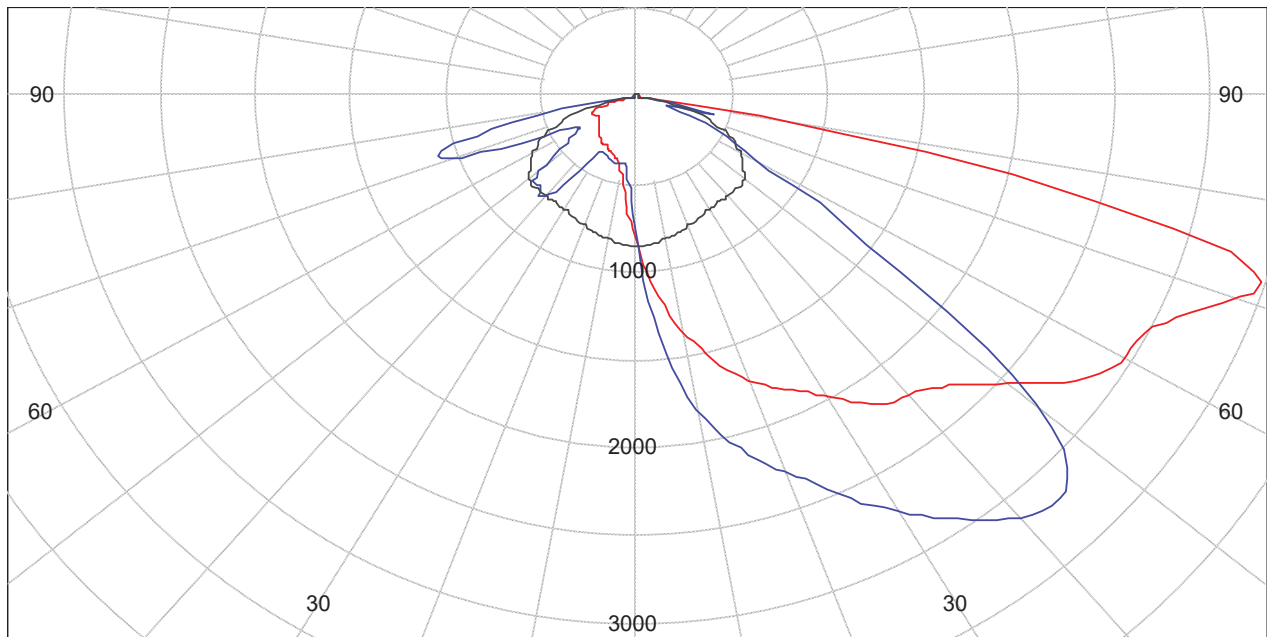
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### Polar Light Distribution Curves



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 %	83.5 %	83.5 %
House Side	0.0 %	16.5 %	16.5 %
	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-Aug-2021  
26-Aug-2021

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RT



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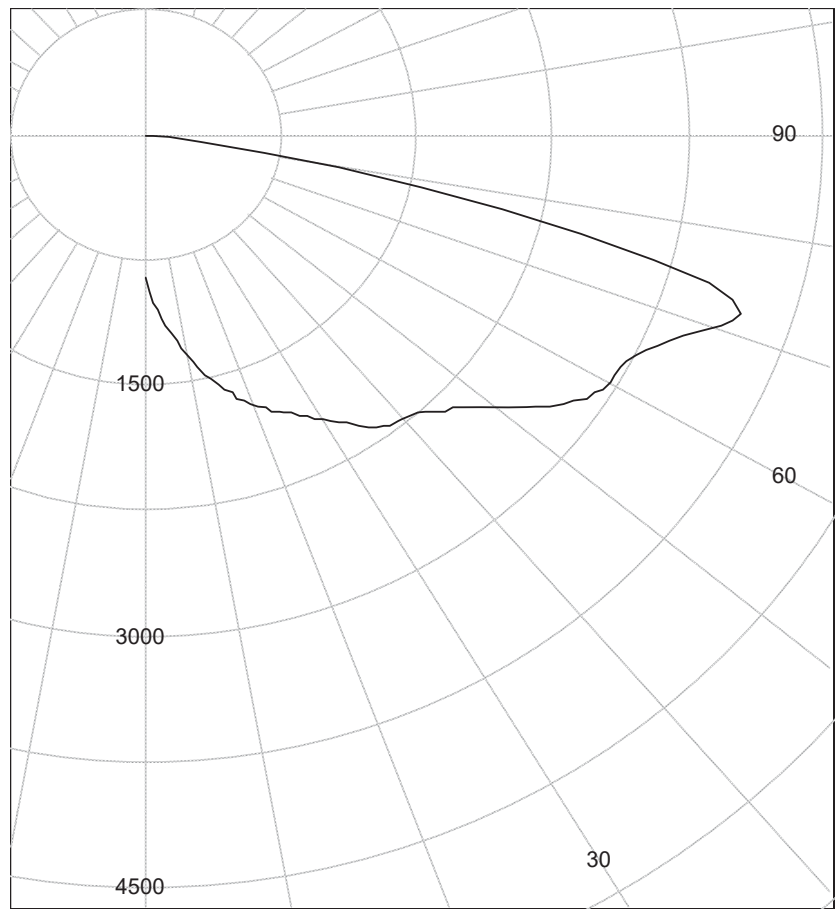
Operating at 120v AC and 60 Hz.

With black plastic back light shield.

Intensity in principal plane  
(based on overall max intensity)

Vertical Angle (°)	Intensity (cd)
0.0	854.2
10.0	1344.7
20.0	1719.6
30.0	1966.5
35.0	2139.9
40.0	2215.0
45.0	2328.6
47.5	2423.7
50.0	2542.4
52.5	2681.5
55.0	2813.3
57.5	2913.0
60.0	2958.6
62.5	2975.1
65.0	3046.9
67.5	3180.7
70.0	3372.5
72.5	3436.4
75.0	2915.2
77.5	1780.5
80.0	660.5
82.5	84.4
85.0	13.0
87.5	3.9
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

1091.3 cd @ (180.0°, 72.0°)

Street side max intensity

3453.9 cd @ (60.0°, 72.0°)

Coordinates expressed in the C Type coordinate system

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





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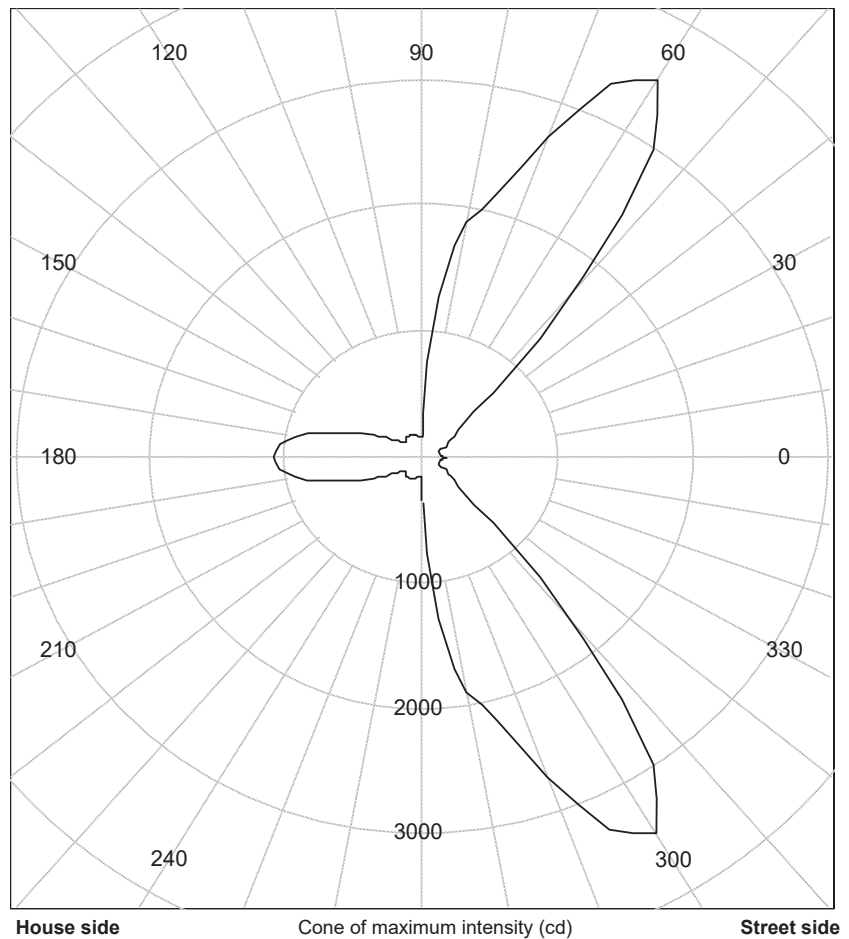
Operating at 120v AC and 60 Hz.

With black plastic back light shield.

Intensity in principal cone  
(based on overall max intensity)

Lateral Plane (°)	(V72.0) (cd)
0	162.6
15	120.2
30	219.8
40	338.8
45	719.9
50	1852.7
55	2992.4
60	3453.9
65	3282.2
70	2713.9
75	2173.0
80	1910.3
85	1275.4
90	354.7
95	153.9
100	151.3
105	173.3
110	186.3
115	202.0
120	188.0
125	195.9
130	181.3
135	158.7
140	182.2
150	297.4
165	774.3
180	1091.3

### Principal Conical Surface



House side max intensity

1091.3 cd @ (180.0°, 72.0°)

Street side max intensity

3453.9 cd @ (60.0°, 72.0°)

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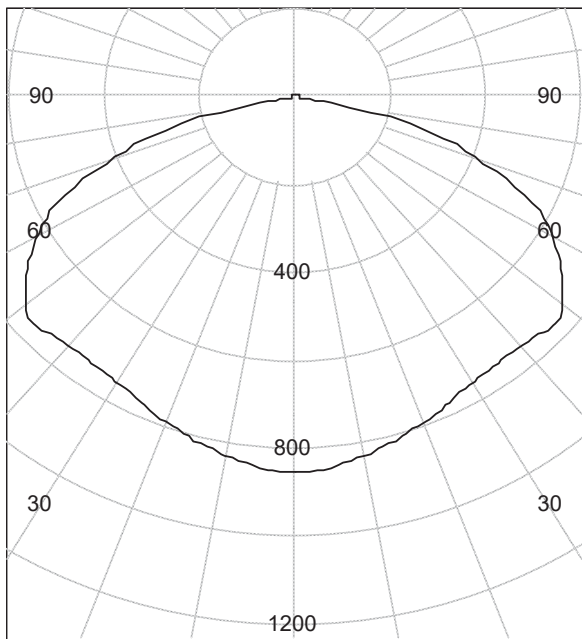
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### Polar curve through L90 / L270

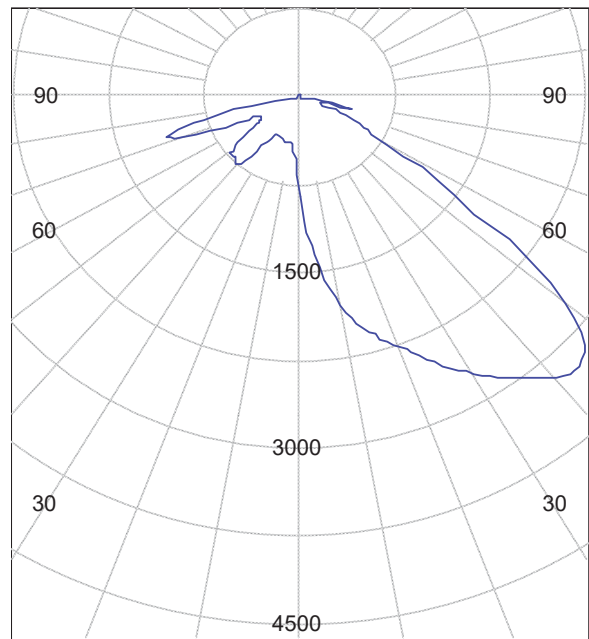


(L90)

(cd)

(L270)

### Polar curve through L0 / L180



House side (L180)

(cd)

Street side (L0)



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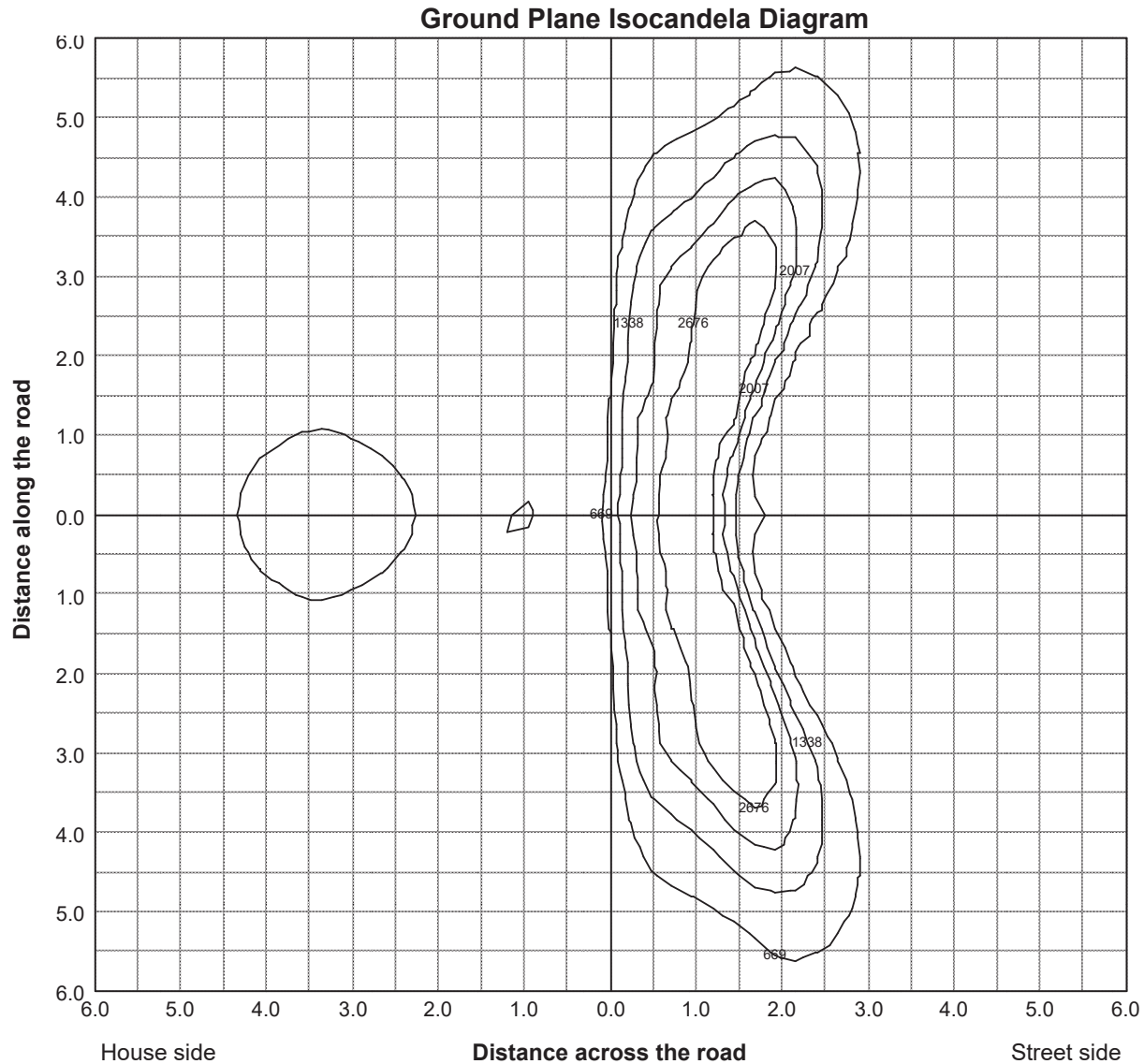
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The isocandela contour units are expressed as cd

Upstream and downstream sides have been averaged.



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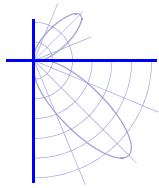
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Intensity data (cd)									
Vertical	L-Plane								
	L0	L15	L30	L40	L45	L50	L55	L60	L65
0.0	854	854	854	854	854	854	854	854	854
10.0	1809	1777	1692	1600	1546	1486	1416	1345	1266
20.0	2276	2232	2146	2038	1975	1902	1816	1720	1599
30.0	2730	2684	2534	2350	2261	2171	2073	1966	1859
35.0	2935	2906	2765	2573	2447	2331	2225	2140	2022
40.0	3128	3104	2983	2749	2629	2506	2351	2215	2109
45.0	3174	3141	3081	2905	2793	2657	2501	2329	2191
47.5	3059	3063	3098	2969	2877	2753	2594	2424	2268
50.0	2730	2851	3081	3018	2958	2857	2720	2542	2348
52.5	2205	2450	3001	3066	3043	2978	2865	2681	2426
55.0	1472	1822	2819	3095	3138	3119	3026	2813	2487
57.5	1050	1112	2446	3106	3241	3270	3157	2913	2534
60.0	708	611	1791	3068	3307	3351	3228	2959	2559
62.5	584	390	879	2709	3237	3344	3248	2975	2587
65.0	466	284	450	1912	2852	3267	3270	3047	2677
67.5	324	199	296	988	2054	3035	3327	3181	2829
70.0	189	151	265	482	1247	2542	3261	3373	3065
72.5	179	113	207	323	621	1674	2892	3436	3309
75.0	417	72	184	249	368	985	2101	2915	3064
77.5	222	43	105	236	278	455	1092	1780	2239
80.0	65	23	31	80	131	127	331	660	904
82.5	16	12	17	26	24	30	46	84	135
85.0	8	6	6	7	8	9	11	13	11
87.5	3	3	3	3	3	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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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	854	854	854	854	854	854	854	854	854
10.0	1182	1093	1004	914	827	743	666	600	542
20.0	1461	1305	1138	963	788	630	506	418	374
30.0	1723	1517	1273	1015	747	527	385	339	326
35.0	1852	1633	1360	1056	739	489	355	323	313
40.0	1965	1752	1465	1114	738	454	333	308	301
45.0	2076	1887	1598	1196	748	429	317	291	286
47.5	2134	1952	1667	1235	751	418	311	285	277
50.0	2191	2002	1707	1252	737	397	293	274	269
52.5	2225	2009	1710	1241	711	372	276	261	258
55.0	2218	1981	1686	1223	682	346	265	252	251
57.5	2180	1937	1662	1206	651	316	250	243	246
60.0	2148	1919	1673	1218	619	287	237	241	251
62.5	2179	1948	1739	1251	582	261	230	249	266
65.0	2272	2012	1818	1283	532	237	222	257	276
67.5	2409	2074	1874	1304	464	211	207	243	270
70.0	2589	2149	1922	1316	398	180	177	217	234
72.5	2710	2150	1866	1245	342	146	145	163	176
75.0	2363	1687	1391	960	247	110	109	116	135
77.5	1819	1163	872	602	141	70	69	80	99
80.0	848	454	291	225	56	38	41	46	53
82.5	153	114	84	119	27	17	22	23	24
85.0	12	14	12	11	8	8	7	7	7
87.5	4	4	3	3	3	3	3	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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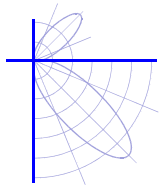
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Intensity data (cd)									
Vertical	L-Plane								
	L115	L120	L125	L130	L135	L140	L150	L165	L180
0.0	854	854	854	854	854	854	854	854	854
10.0	495	458	428	409	400	395	391	390	392
20.0	361	356	352	354	359	366	377	383	389
30.0	324	328	333	332	333	335	339	353	366
35.0	314	317	316	319	323	328	338	445	512
40.0	301	300	302	308	316	338	452	666	749
45.0	285	282	282	289	310	358	467	631	705
47.5	275	274	270	276	294	326	416	662	733
50.0	265	265	260	263	273	295	407	694	664
52.5	254	253	252	248	256	274	423	637	527
55.0	244	241	241	236	243	259	410	539	421
57.5	237	232	228	227	232	245	361	461	366
60.0	245	231	223	223	221	228	307	407	347
62.5	262	242	226	218	209	214	260	365	383
65.0	279	255	225	206	194	203	234	386	537
67.5	281	258	229	196	181	197	233	518	825
70.0	245	228	234	194	173	192	270	689	1039
72.5	192	179	185	176	153	178	299	787	1087
75.0	148	137	135	126	120	147	284	701	864
77.5	98	90	86	82	89	111	211	501	606
80.0	49	48	49	50	57	69	119	204	197
82.5	23	20	21	23	25	25	24	26	16
85.0	7	7	7	6	6	6	6	5	3
87.5	3	3	3	3	3	3	2	1	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
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180.0	0	0	0	0	0	0	0	0	0



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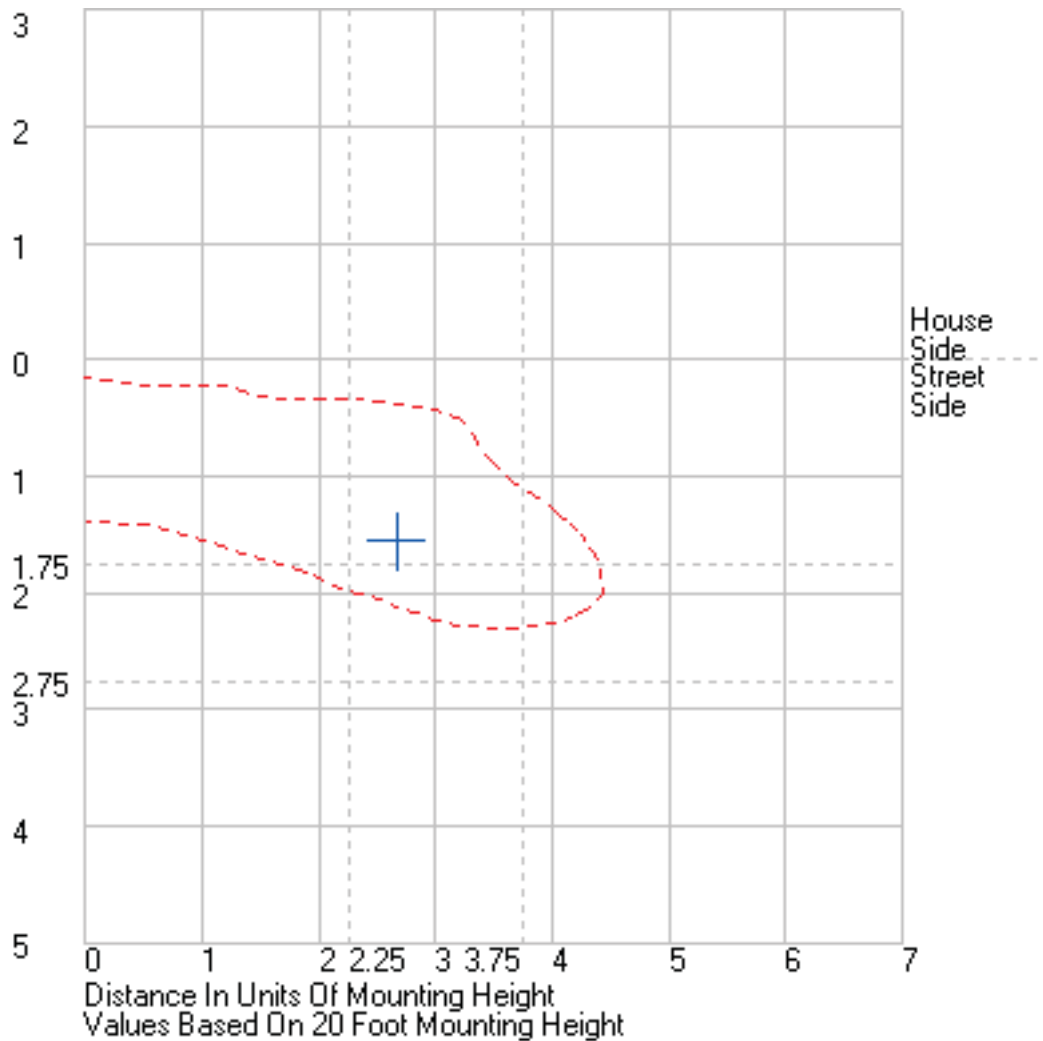
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### LM-79-08 Performance Data

<b>Spectral</b>	CIE 1931 (x, y) <sup>(1)</sup>	(0.423, 0.393)
	CIE 1976 (u', v') <sup>(1)</sup>	(0.246, 0.515)
	Correlated Color Temperature (CCT) <sup>(1)</sup>	3170 K
	Spatial Δ (u', v') Uniformity <sup>(2)</sup>	0.0164
	Color Rendering Index (Ra) <sup>(1)</sup>	73.6
	Special CRI 9 (R <sub>9</sub> ) <sup>(1),(3)</sup>	-22.3
	Distance from Planckian Locus (Duv) <sup>(1),(3)</sup>	-2.21E-03
	Scotopic/Photopic Ratio <sup>(1),(3)</sup>	1.27

<b>Electrical</b>	Voltage	120.0 V	(Setpoint 1)
	Frequency	60.0 Hz	
	Current	0.647 A	
	Power	76.8 W	
	Power Factor	0.99	
	Current THD	4.0 %	
	Voltage	240.0 V	(Setpoint 2)
	Frequency	60.0 Hz	
	Current	0.333 A	
	Power	75.3 W	
	Power Factor	0.94	
	Current THD	3.9 %	

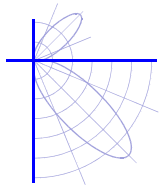
Performance data in accordance with IESNA LM-79-08. Spectral calculations are for a CIE 2° observer

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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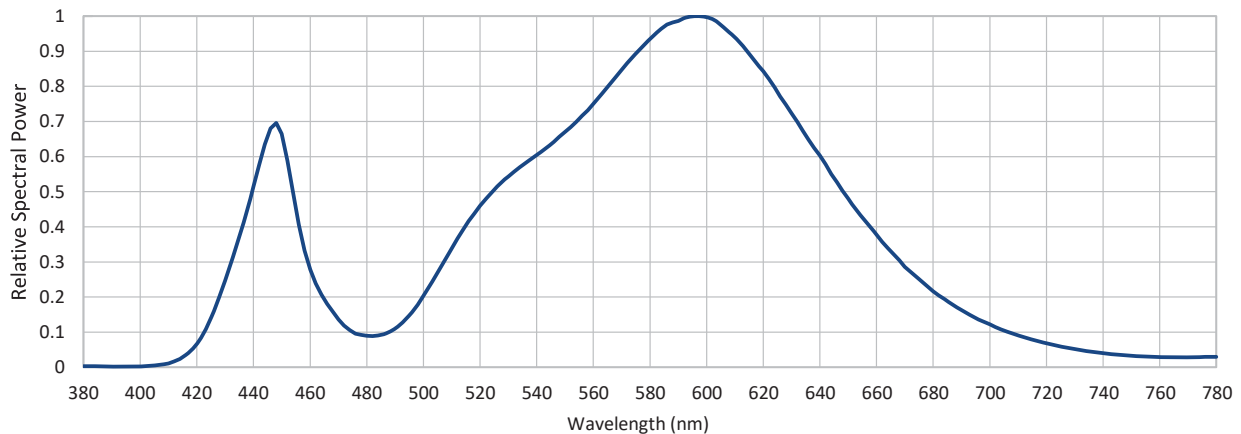
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### LM-79-08 Performance Data

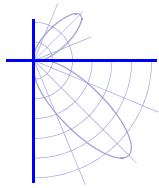
#### Relative spectral power distribution

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

$\lambda$ (nm)	Relative Power	$\lambda$ (nm)	Relative Power	$\lambda$ (nm)	Relative Power	$\lambda$ (nm)	Relative Power	$\lambda$ (nm)	Relative Power
380	0.003	460	0.278	540	0.604	620	0.843	700	0.122
385	0.003	465	0.194	545	0.635	625	0.784	705	0.105
390	0.002	470	0.136	550	0.670	630	0.723	710	0.091
395	0.002	475	0.101	555	0.707	635	0.661	715	0.079
400	0.003	480	0.090	560	0.751	640	0.603	720	0.068
405	0.005	485	0.092	565	0.798	645	0.538	725	0.059
410	0.011	490	0.110	570	0.847	650	0.481	730	0.052
415	0.029	495	0.148	575	0.893	655	0.427	735	0.045
420	0.067	500	0.204	580	0.935	660	0.377	740	0.040
425	0.142	505	0.270	585	0.970	665	0.330	745	0.036
430	0.247	510	0.338	590	0.986	670	0.286	750	0.032
435	0.372	515	0.404	595	0.999	675	0.251	755	0.030
440	0.514	520	0.460	600	0.997	680	0.217	760	0.030
445	0.658	525	0.506	605	0.975	685	0.189	765	0.029
450	0.665	530	0.543	610	0.939	690	0.163	770	0.029
455	0.452	535	0.576	615	0.894	695	0.141	775	0.029
								780	0.030







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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	( 0.246, 0.514)	( 0.245, 0.512)
10.0	( 0.246, 0.515)	( 0.244, 0.504)
20.0	( 0.246, 0.516)	( 0.244, 0.502)
30.0	( 0.247, 0.517)	( 0.244, 0.504)
40.0	( 0.247, 0.519)	( 0.245, 0.509)
50.0	( 0.248, 0.522)	( 0.246, 0.521)
60.0	( 0.248, 0.526)	( 0.248, 0.531)
70.0	( 0.249, 0.530)	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 0.75 / 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-21208-14

LED Roadway Lighting - Roadway luminaire. Product ID: "NXT-36S-0-X-3LM-7-XX-4-XX-X-XX-0424"

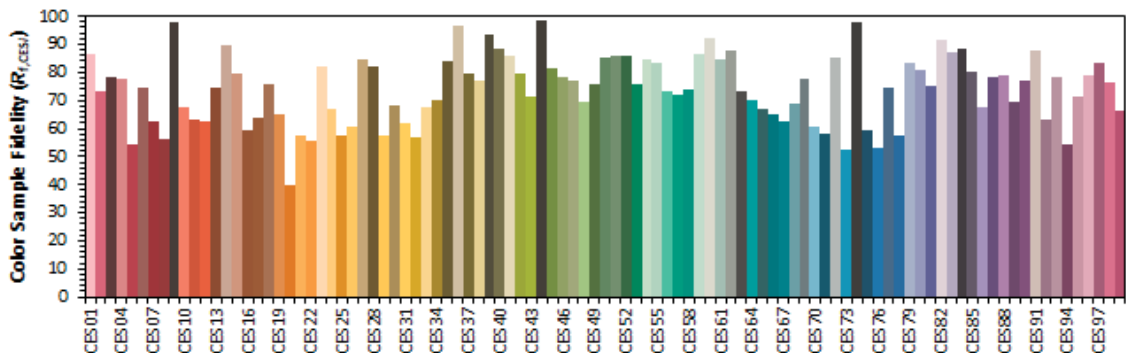
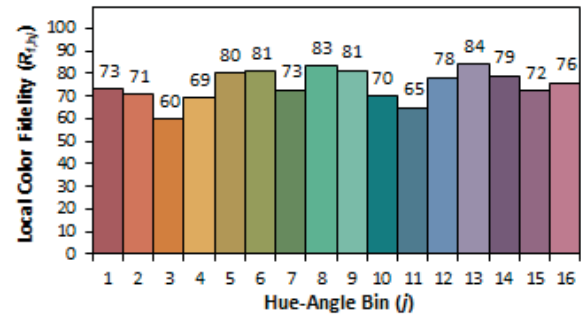
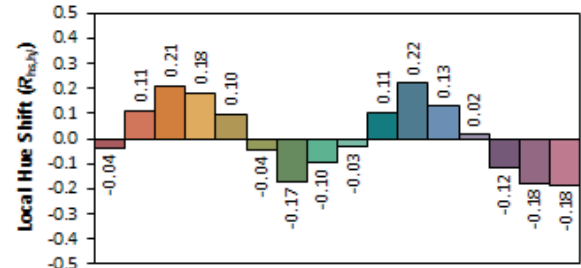
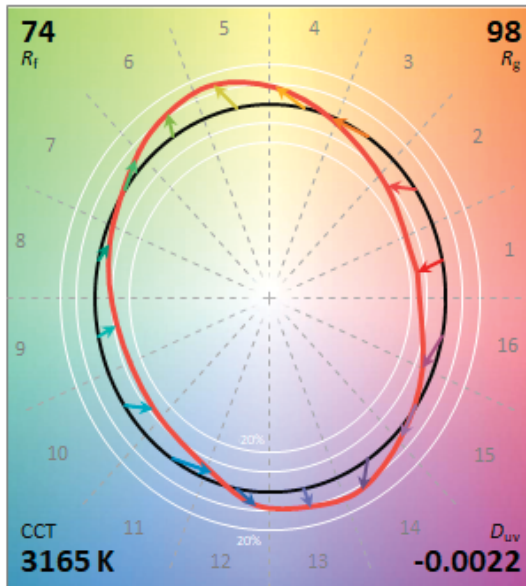
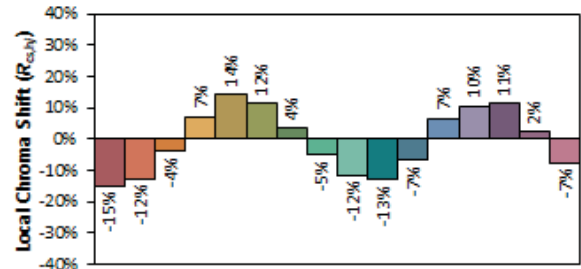
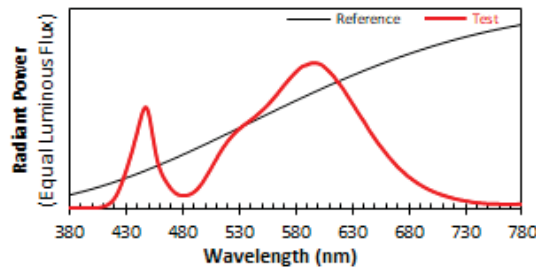
Grey cast aluminum housing with clear flat glass lens.

36 LEDs in one square array with clear plastic sheet of individual lenses.

One LED Roadway LED driver. Model: J100UNv2 1-10V set to 700ma.

Operating at 120v AC and 60 Hz.

With black plastic back light shield.





## Test Report No. LLI-21208-14

LED Roadway Lighting - Roadway luminaire. Product ID: "NXT-36S-0-X-3LM-7-XX-4-XX-X-XX-0424"

Grey cast aluminum housing with clear flat glass lens.

36 LEDs in one square array with clear plastic sheet of individual lenses.

One LED Roadway LED driver. Model: J100UNv2 1-10V 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.