



Report of Test LLI-17210-1

LED Roadway Ligting - Pole arm mount roadway luminaire. Product ID: NXT 72M 0 X 2LG 7 XX 3 XX X XX X
Grey painted cast aluminum housing with clear flat glass lens.
72 LEDs with array of 36 on each of two white PCBs with clear plastic sheets of individual lenses
One LED Roadway Lighting driver. Model: J150UNv3 set to 700ma.
Operating at 120 VAC and 60Hz.



Performance Summary

Total Light Output	17316 lm	Min Power Factor	0.96 @ 240 V
Luminaire Power	151.8 W	Max THD(i)*	4.7 % @ 240 V
Luminous Efficacy	114.1 lm/W	0-90° Zonal Flux %	100.0 %
CCT	3730 K	80-90° Zonal Flux %	0.4 %
CIE(x,y) 1931	(0.394, 0.388)	BUG Rating*	B2-U0-G2
CRI	74	Street Classification*	Type II Short

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



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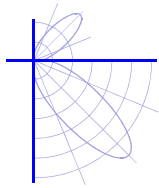
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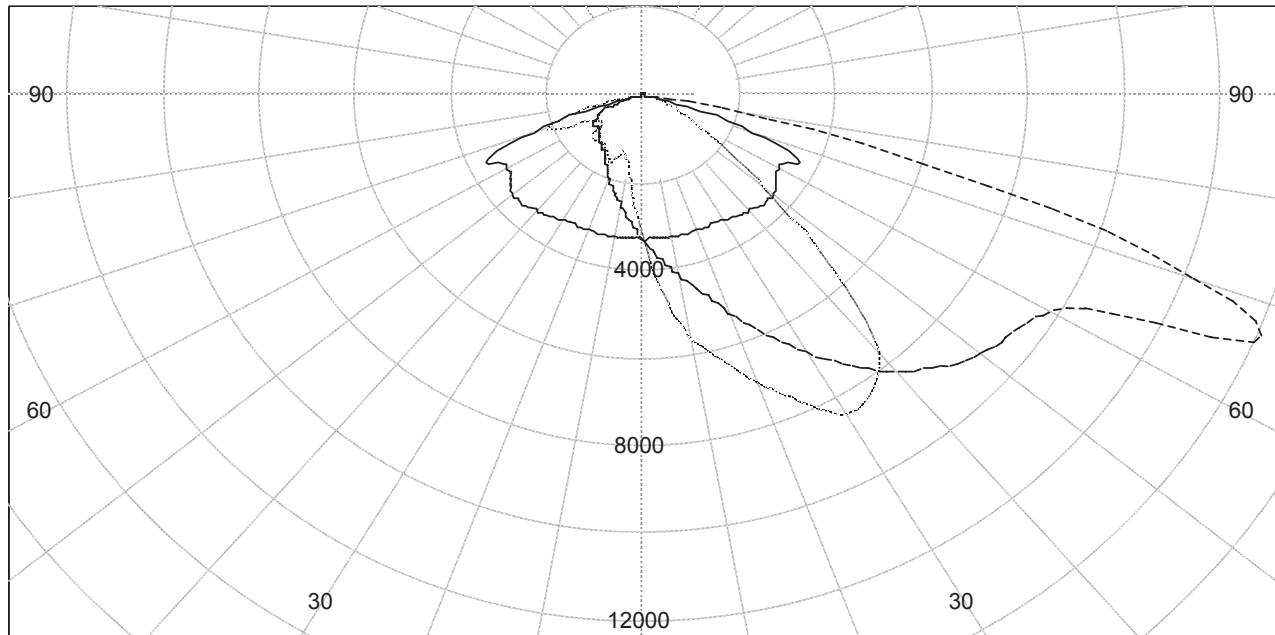
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Polar Light Distribution Curves



House side / L270

L90 / 270 - Solid, Plane of maximum - Dashed, L0 / 180 - Grey (cd)

Street side / L90

Percentage Outputs

	Upward	Downward	Total
Street Side	0.0 %	80.2 %	80.2 %
House Side	0.0 %	19.8 %	19.8 %
	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

8-Aug-2017
8-Aug-2017

RT



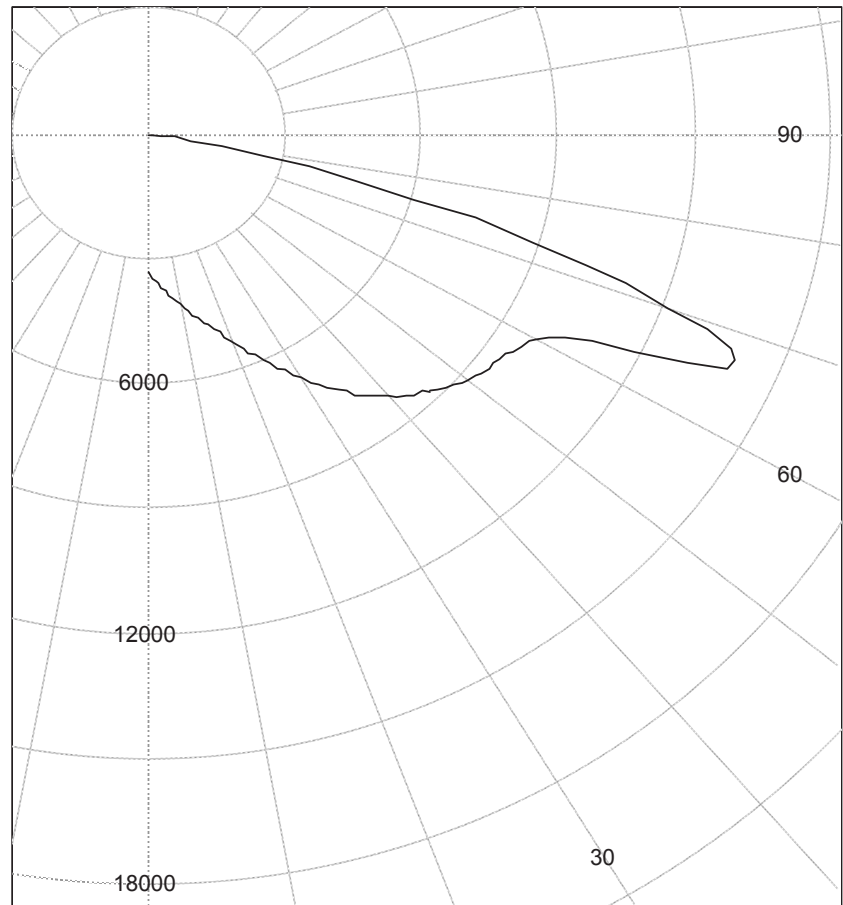
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Intensity
in principal plane

Vertical Angle (°)	Intensity (cd)
0.0	3302.7
10.0	4166.7
20.0	5295.8
30.0	6782.8
35.0	7575.8
40.0	8217.3
45.0	8774.2
47.5	9012.3
50.0	9200.6
52.5	9318.8
55.0	9416.6
57.5	9586.0
60.0	9876.9
62.5	10635.4
65.0	13039.1
67.5	13902.4
70.0	12149.8
72.5	9536.0
75.0	6042.9
77.5	3097.1
80.0	952.7
82.5	240.8
85.0	24.0
87.5	8.2
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)

	Maximum Intensity
House Side	3618 cd @ (270.0°, 65.0°)
Street Side	14030 cd @ (290.0°, 66.5°)

Coordinates expressed in the C Type coordinate system

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



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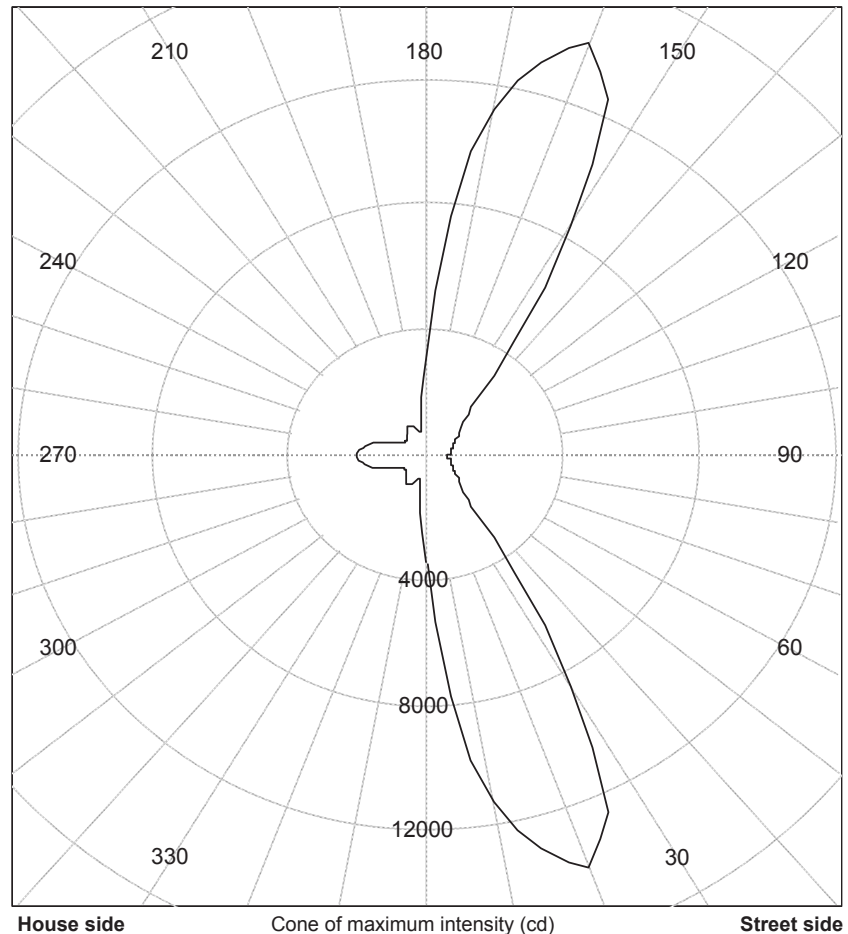
One LED Roadway Lighting driver. Model: J150UNv3 set to 700ma.

Operating at 120 VAC and 60Hz.

Intensity
in principal cone

Lateral Plane (°)	Intensity (cd)
0	631.5
15	690.2
30	970.2
40	1225.0
45	1510.6
50	2045.2
55	4400.3
60	8468.4
65	12573.6
70	14029.5
75	13061.0
80	11237.1
85	7675.9
90	3429.3
95	1826.6
100	1022.6
105	799.7
110	883.9
115	1040.8
120	1078.2
125	954.7
130	858.5
135	794.2
140	761.3
150	774.7
165	1445.5
180	2035.0

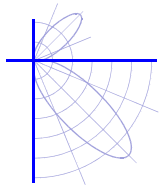
Principal Conical Surface



	Maximum Intensity
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Street Side	14030 cd @ (290.0°, 66.5°)

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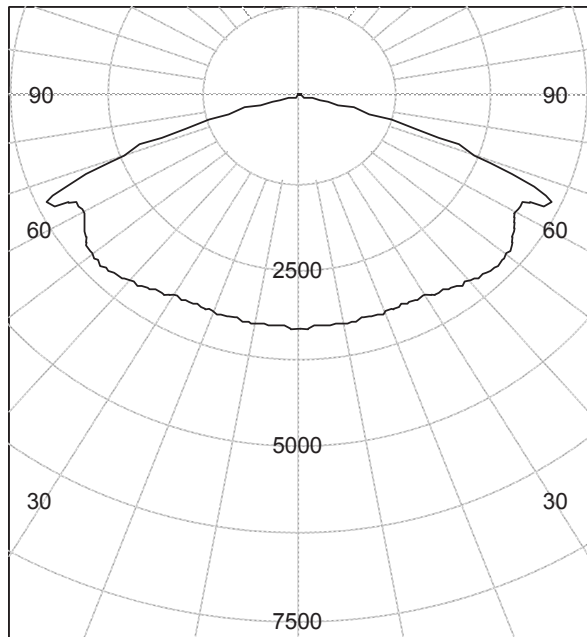
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Polar curve through L90 / L270

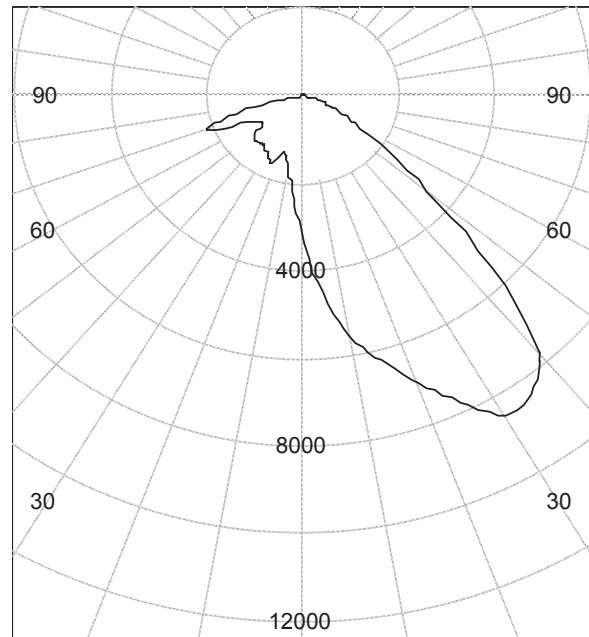


(L90)

(cd)

(L270)

Polar curve through L0 / L180



House side (L180)

(cd)

Street side (L0)



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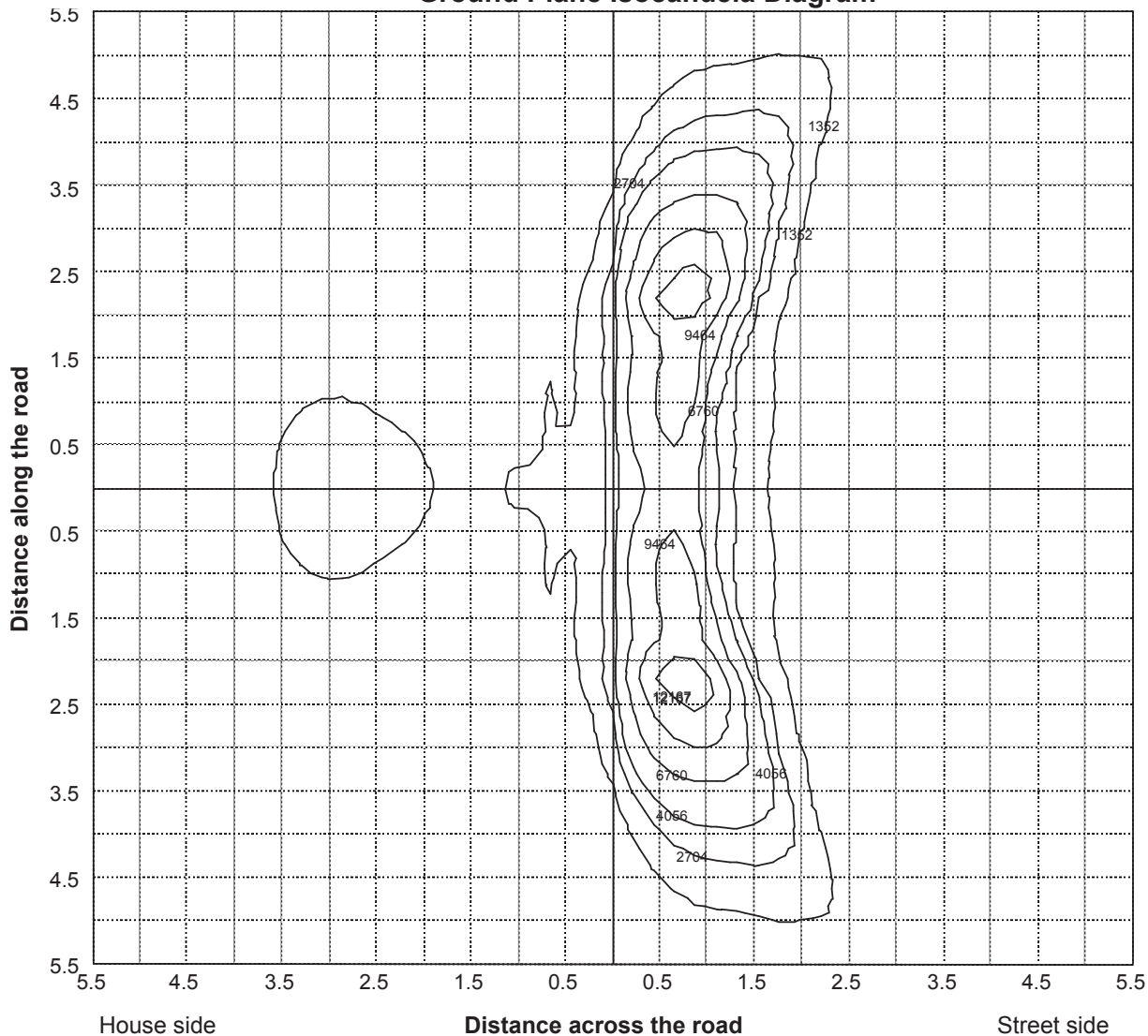
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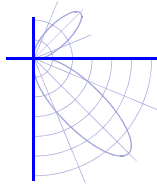
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Ground Plane Isocandela Diagram



The isocandela contour units are expressed as cd

Upstream and downstream sides have been averaged.



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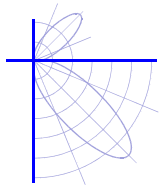
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House side intensity data (cd)

Vertical	L-Plane								
	L180	L195	L210	L220	L225	L230	L235	L240	L245
0.0	3303	3303	3303	3303	3303	3303	3303	3303	3303
10.0	1729	1768	1886	2001	2068	2142	2226	2326	2445
20.0	1498	1437	1353	1376	1422	1483	1573	1704	1867
30.0	1514	1521	1574	1541	1466	1350	1274	1315	1427
35.0	1403	1418	1437	1506	1500	1466	1353	1237	1291
40.0	1407	1377	1350	1383	1441	1454	1434	1317	1221
45.0	1411	1346	1276	1311	1346	1416	1419	1383	1238
47.5	1405	1324	1235	1262	1306	1375	1404	1391	1265
50.0	1273	1276	1173	1200	1256	1321	1387	1381	1292
52.5	1089	1121	1110	1135	1192	1263	1355	1369	1314
55.0	1042	1018	1033	1068	1123	1201	1308	1356	1329
57.5	1062	992	947	1001	1055	1136	1249	1336	1328
60.0	1126	987	883	928	984	1070	1185	1304	1299
62.5	1361	1051	825	857	912	997	1106	1257	1240
65.0	1813	1267	787	795	838	912	1015	1161	1130
67.5	2117	1535	766	737	767	822	912	1018	979
70.0	2086	1694	754	671	698	732	789	853	814
72.5	1724	1523	773	599	616	632	652	683	650
75.0	1215	1140	727	511	511	515	501	510	478
77.5	782	735	563	397	381	379	349	341	314
80.0	415	418	363	256	232	223	199	188	179
82.5	141	197	176	119	103	94	83	75	71
85.0	6	57	42	25	23	19	17	15	16
87.5	1	2	3	3	3	3	3	4	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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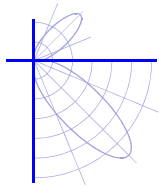
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Vertical	House side			Intensity data (cd)			Street side		
	L-Plane								
	L250	L255	L260	L265	L270	L275	L280	L285	L290
0.0	3303	3303	3303	3303	3303	3303	3303	3303	3303
10.0	2578	2735	2904	3090	3293	3514	3739	3961	4167
20.0	2049	2260	2529	2868	3276	3771	4289	4808	5296
30.0	1603	1886	2218	2670	3295	4153	5127	6140	6783
35.0	1459	1743	2146	2646	3369	4441	5740	6899	7576
40.0	1370	1629	2097	2655	3444	4727	6356	7538	8217
45.0	1268	1526	2008	2649	3522	5058	6959	8105	8774
47.5	1224	1472	1947	2626	3538	5204	7205	8338	9012
50.0	1196	1419	1885	2583	3528	5321	7379	8506	9201
52.5	1188	1370	1824	2519	3481	5396	7483	8609	9319
55.0	1197	1319	1758	2436	3408	5441	7531	8633	9417
57.5	1201	1264	1682	2344	3318	5490	7597	8693	9586
60.0	1170	1184	1569	2242	3255	5637	7852	8938	9877
62.5	1096	1083	1415	2106	3327	6234	8944	10066	10635
65.0	971	905	1193	1991	3618	7850	11410	12826	13039
67.5	825	733	912	1609	3137	7303	10651	12476	13902
70.0	685	587	663	1110	2440	6559	9398	11406	12150
72.5	544	452	468	702	1741	5151	7535	8900	9536
75.0	397	329	317	400	954	2788	4585	5466	6043
77.5	262	218	206	228	441	1135	2017	2564	3097
80.0	150	123	119	123	170	337	604	713	953
82.5	61	52	50	52	58	76	117	171	241
85.0	16	15	15	16	17	19	21	22	24
87.5	6	6	5	6	7	7	8	8	8
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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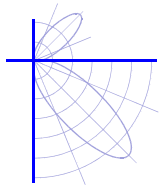
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Street side intensity data (cd)

Vertical	L-Plane								
	L295	L300	L305	L310	L315	L320	L330	L345	L0
0.0	3303	3303	3303	3303	3303	3303	3303	3303	3303
10.0	4371	4563	4739	4900	5045	5161	5342	5504	5566
20.0	5697	5983	6190	6345	6463	6545	6699	6881	6975
30.0	7203	7508	7752	7934	8070	8154	8238	8364	8422
35.0	8031	8361	8595	8780	8899	8986	8953	8449	8263
40.0	8699	9070	9364	9578	9733	9719	9061	8005	7638
45.0	9270	9713	10120	10438	10412	9794	8184	6007	5584
47.5	9510	10017	10562	10767	10237	9235	6716	4743	4355
50.0	9743	10415	10969	10657	9623	8186	4809	3654	3365
52.5	10021	10863	11013	10132	8597	5868	3720	2904	2610
55.0	10371	11089	10696	9252	6375	4178	2951	2238	1984
57.5	10647	11012	10019	7441	4556	3195	2345	1742	1507
60.0	10761	10606	8648	5503	3276	2446	1790	1362	1149
62.5	10868	9721	6975	3962	2292	1901	1433	1022	874
65.0	11708	8776	5371	2490	1764	1439	1123	789	702
67.5	12808	8490	3726	1847	1360	1104	883	637	587
70.0	11091	7418	2501	1415	999	853	692	527	511
72.5	8325	3992	1531	960	693	638	530	432	422
75.0	5468	2004	937	534	487	462	388	336	349
77.5	2886	985	502	334	326	318	278	237	235
80.0	1121	494	245	192	189	190	182	147	149
82.5	284	174	103	89	91	94	97	84	81
85.0	25	26	26	25	27	30	36	34	32
87.5	8	7	6	5	5	5	6	6	6
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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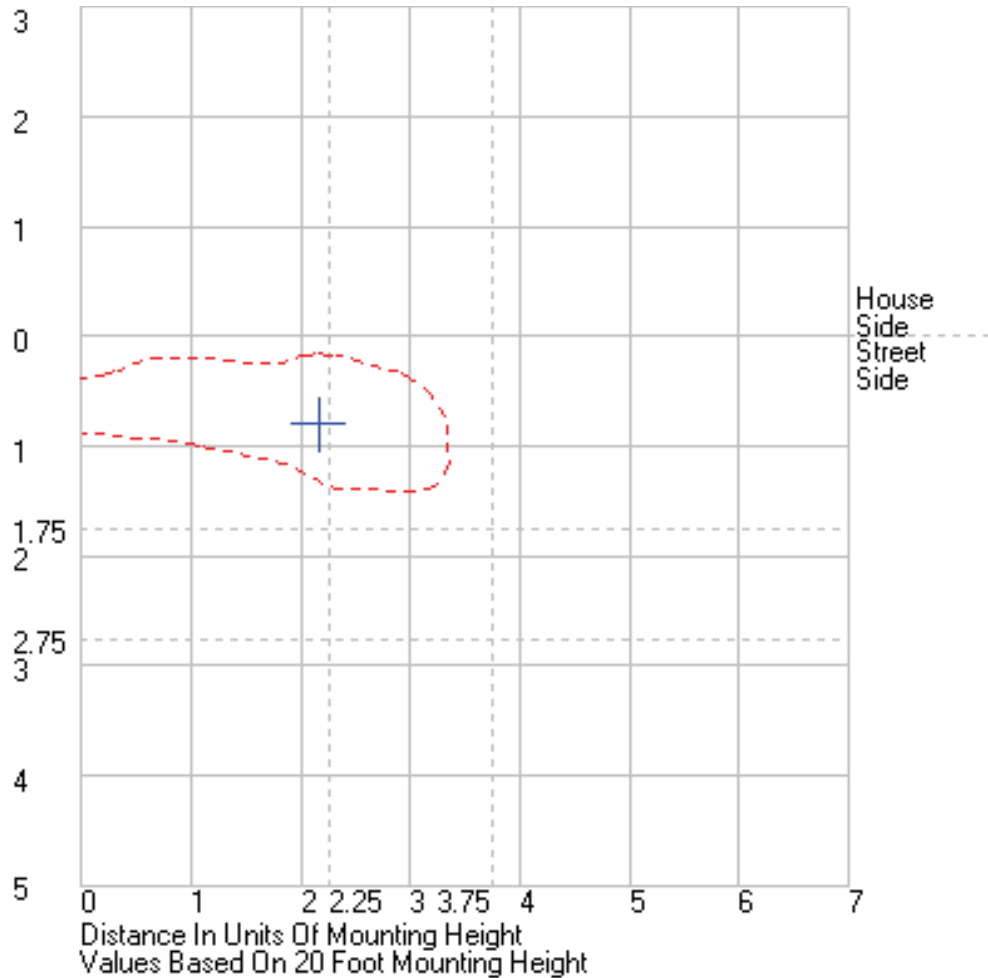
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LM-79 Performance Data

Spectral	CIE 1931 (x, y) ⁽¹⁾	(0.394, 0.388)
	CIE 1976 (u', v') ⁽¹⁾	(0.230, 0.509)
	Correlated Color Temperature (CCT) ⁽¹⁾	3730 K
	Spatial Δ (u', v') Uniformity ⁽²⁾	0.0119
	Color Rendering Index (Ra) ⁽¹⁾	73.5
	Special CRI 9 (R ₉) ^{(1),(3)}	-19.7
	Distance from Planckian Locus (Duv) ^{(1),(3)}	0.0014
	Scotopic/Photopic Ratio ^{(1),(3)}	1.44

Electrical	Voltage	120.0 V	(Setpoint 1)
	Frequency	60.0 Hz	
	Current	1.273 A	
	Power	152 W	
	Power Factor	0.993	
	Current THD	3.0 %	
	Voltage	240.0 V	(Setpoint 2)
	Frequency	60.0 Hz	
	Current	0.645 A	
	Power	149 W	
	Power Factor	0.961	
	Current THD	4.7 %	

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



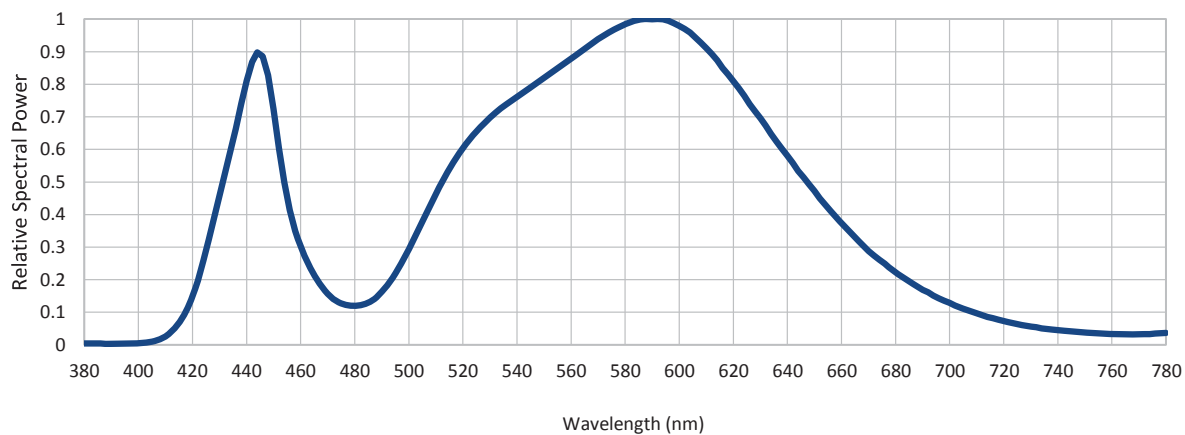
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LM-79 Performance Data

Summary relative spectral irradiance distribution (wavelength – nm, irradiance – relative to peak = 1)

380	0.004	480	0.120	580	0.984	680	0.222
385	0.004	485	0.130	585	0.998	685	0.195
390	0.003	490	0.163	590	0.999	690	0.169
395	0.003	495	0.219	595	0.997	695	0.147
400	0.005	500	0.295	600	0.979	700	0.129
405	0.010	505	0.378	605	0.951	705	0.111
410	0.026	510	0.462	610	0.911	710	0.097
415	0.068	515	0.539	615	0.862	715	0.084
420	0.149	520	0.603	620	0.809	720	0.073
425	0.290	525	0.656	625	0.752	725	0.064
430	0.460	530	0.697	630	0.695	730	0.056
435	0.630	535	0.732	635	0.636	735	0.050
440	0.811	540	0.762	640	0.581	740	0.045
445	0.892	545	0.790	645	0.524	745	0.041
450	0.724	550	0.819	650	0.473	750	0.038
455	0.456	555	0.848	655	0.420	755	0.036
460	0.302	560	0.879	660	0.374	760	0.033
465	0.215	565	0.909	665	0.330	765	0.032
470	0.157	570	0.938	670	0.288	770	0.033
475	0.127	575	0.964	675	0.255	775	0.034
						780	0.037



The relative spectral power distribution combines the weighted spectral power distributions of all spatial measurements.



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Operating at 120 VAC and 60Hz.

LM-79 Performance Data

Spatial measurements

Vert. angle (°)	CIE 1976 (u',v') coordinates	
	Horiz. 0° plane	Horiz. 90° plane
0.0	(0.229, 0.503)	(0.229, 0.502)
10.0	(0.229, 0.503)	(0.228, 0.497)
20.0	(0.229, 0.504)	(0.228, 0.499)
30.0	(0.229, 0.505)	(0.229, 0.505)
40.0	(0.229, 0.506)	(0.230, 0.513)
50.0	(0.230, 0.508)	(0.229, 0.513)
60.0	(0.230, 0.512)	(0.227, 0.509)
70.0	(0.233, 0.519)	I <= 10% peak
80.0	I <= 10% peak	I <= 10% peak
-	-	-

Spatial measurements

Vert. angle (°)	CIE 1976 (u',v') coordinates	
	Horiz. 0° plane	Horiz. 90° 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

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Calculator / report version 1.0.7 / 5.7 (30th Jan 2017)

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Test Report No. LLI-17210-1

LED Roadway Lighting - Pole arm mount roadway luminaire. Product ID: NXT 72M 0 X 2LG 7 XX 3 XX X XX X

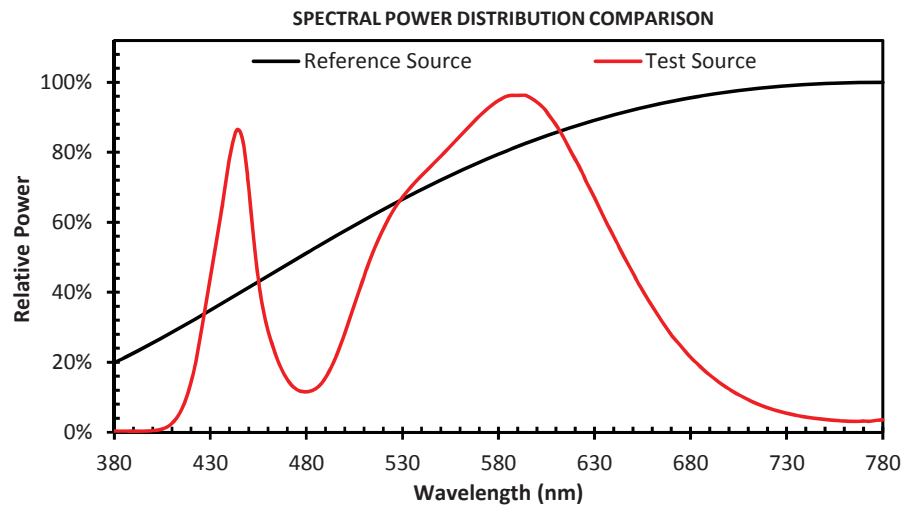
Grey painted cast aluminum housing with clear flat glass lens.

72 LEDs with array of 36 on each of two white PCBs with clear plastic sheets of individual lenses

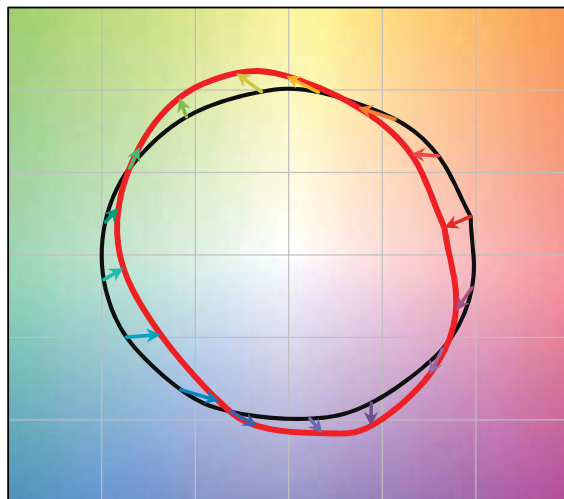
One LED Roadway Lighting driver. Model: J150UNv3 set to 700ma.

Operating at 120 VAC and 60Hz.

R_f	72
R_g	97



COLOR VECTOR GRAPHIC



— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC



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Test Report No. LLI-17210-1

LED Roadway Lighting - Pole arm mount roadway luminaire. Product ID: NXT 72M 0 X 2LG 7 XX 3 XX X XX X
Grey painted cast aluminum housing with clear flat glass lens.
72 LEDs with array of 36 on each of two white PCBs with clear plastic sheets of individual lenses
One LED Roadway Lighting driver. Model: J150UNv3 set to 700ma.
Operating at 120 VAC and 60Hz.

Test Distance 8.0 m
Test Temperature 24.9 °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 C78.377:2011, ANSI C82.77:2002.

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.