



Report of Test LLI-21176-2

LED Roadway Lighting - Roadway luminaire. Product ID: NXT "NXT-72M-5-X-2ES-7-X-XX-4-XX-X-XX-0675"

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 Osram Optotronic LED driver. Model: OT180W/UNV/1250C/2DIM/P6 set to 700ma.

Operating at 120v AC and 60 Hz.

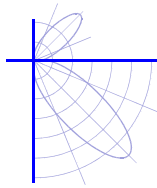


Performance Summary

Total Light Output	20042 lm	Min Power Factor	0.97 @ 277 V
Luminaire Power	159.1 W	Max THD(i)*	6.3 % @ 277 V
Luminous Efficacy	126.0 lm/W	0-90° Zonal Flux %	100.0 %
CCT	3070 K	80-90° Zonal Flux %	1.0 %
CIE(x,y) 1931	(0.437, 0.413)	BUG Rating*	B3-U0-G3
CRI	73	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



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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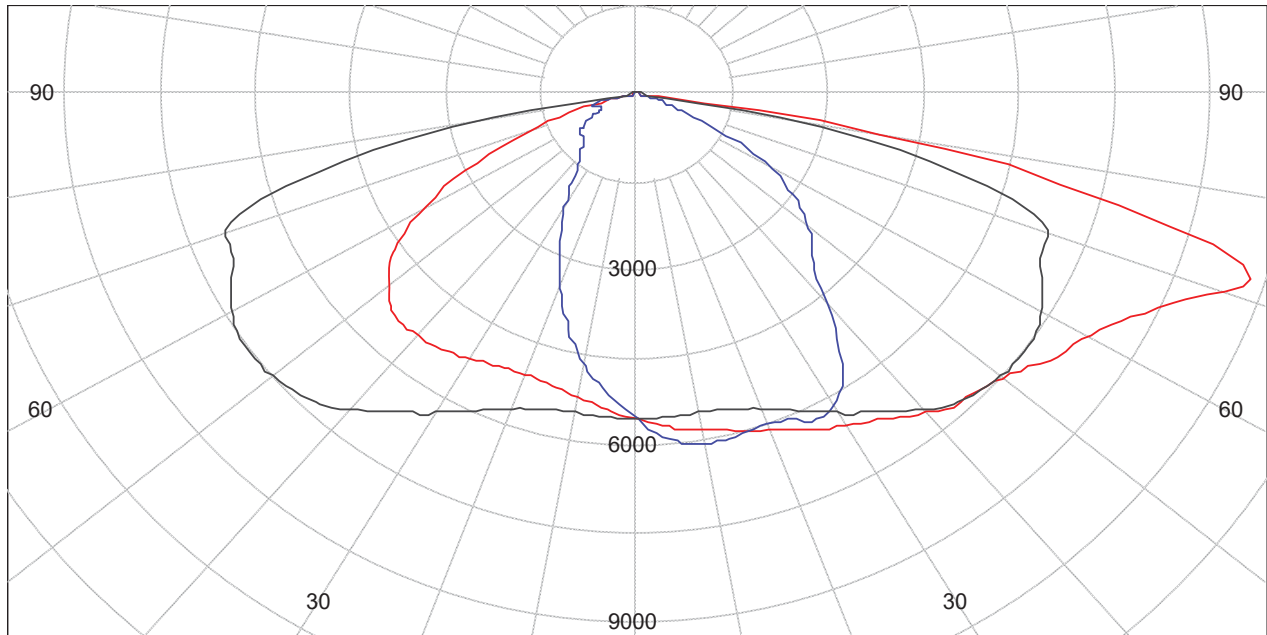
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Polar Light Distribution Curves



House side / L270

L90 / 270 - Black, Plane of maximum - Red, L0 / 180 - Blue (cd)

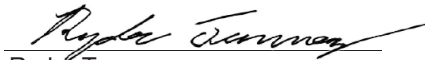
Street side / L90

Percentage Outputs

	Upward	Downward	Total
Street Side	0.0 %	65.9 %	65.9 %
House Side	0.0 %	34.1 %	34.1 %
	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

8-Jul-2021
9-Jul-2021

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RT



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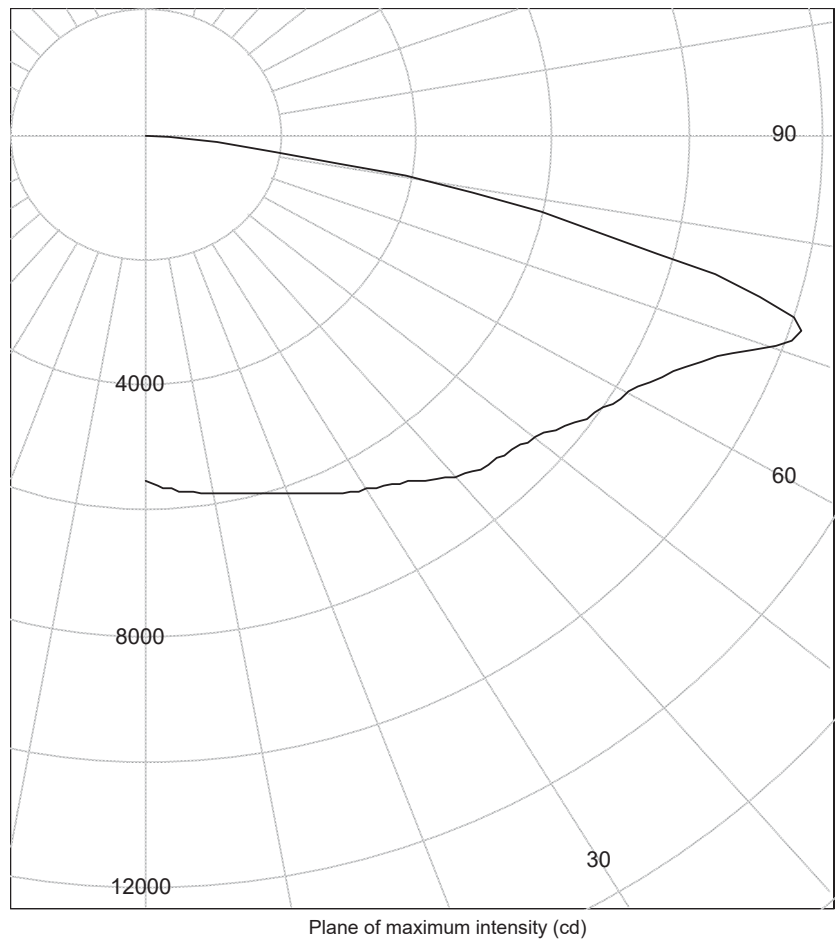
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Operating at 120v AC and 60 Hz.

Intensity in principal plane
(based on overall max intensity)

Vertical Angle (°)	Intensity (cd)
0.0	5546.0
10.0	5802.7
20.0	6099.7
30.0	6538.1
35.0	6770.6
40.0	7095.7
45.0	7341.0
47.5	7408.0
50.0	7521.9
52.5	7687.4
55.0	7922.6
57.5	8057.8
60.0	8232.1
62.5	8474.5
65.0	8799.2
67.5	9234.9
70.0	9857.7
72.5	10110.2
75.0	8674.3
77.5	6405.4
80.0	3884.2
82.5	1483.9
85.0	50.6
87.5	17.2
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



House side max intensity

7513.4 cd @ (90.0°, 55.5°)

Street side max intensity

10165.9 cd @ (70.0°, 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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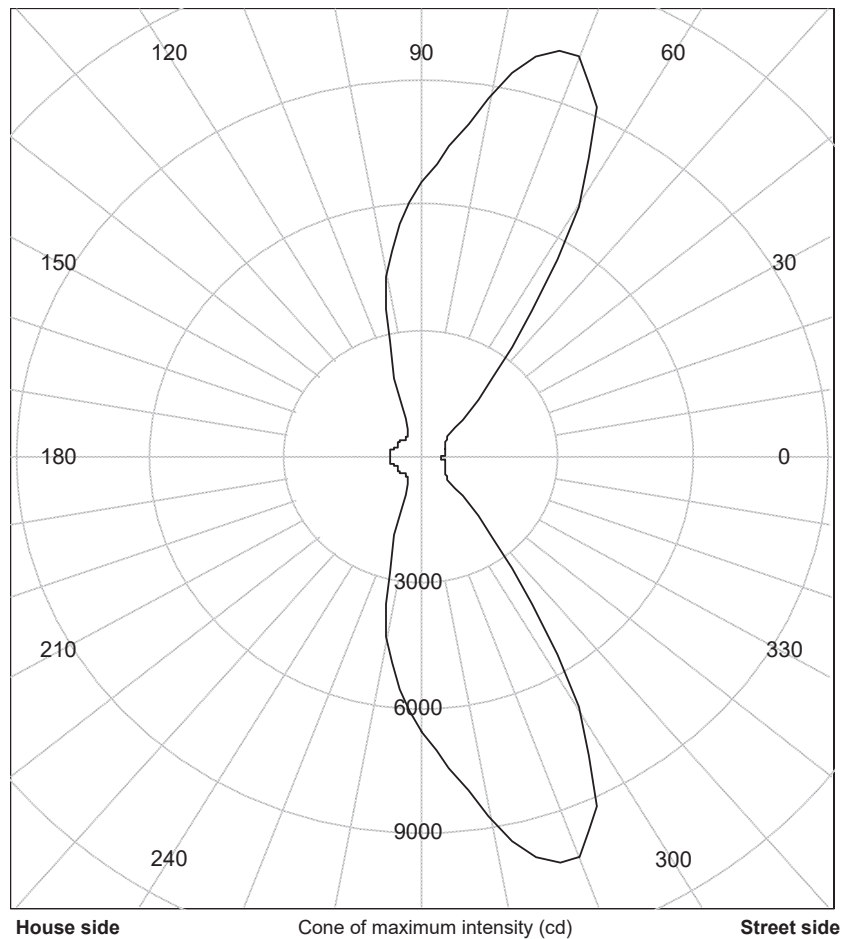
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Operating at 120v AC and 60 Hz.

Intensity in principal cone
(based on overall max intensity)

Lateral Plane (°)	(V72.0) (cd)
0	457.2
15	520.8
30	610.1
40	744.5
45	1264.6
50	2384.5
55	4220.0
60	6896.0
65	9185.3
70	10165.9
75	9882.6
80	8724.9
85	7421.5
90	6558.2
95	5562.2
100	4359.6
105	2790.1
110	1274.9
115	687.0
120	556.0
125	547.6
130	552.1
135	555.7
140	601.6
150	592.8
165	678.3
180	714.8

Principal Conical Surface



House side

Cone of maximum intensity (cd)

Street side

House side max intensity

7513.4 cd @ (90.0°, 55.5°)

Street side max intensity

10165.9 cd @ (70.0°, 72.0°)

Coordinates expressed in the C Type coordinate system

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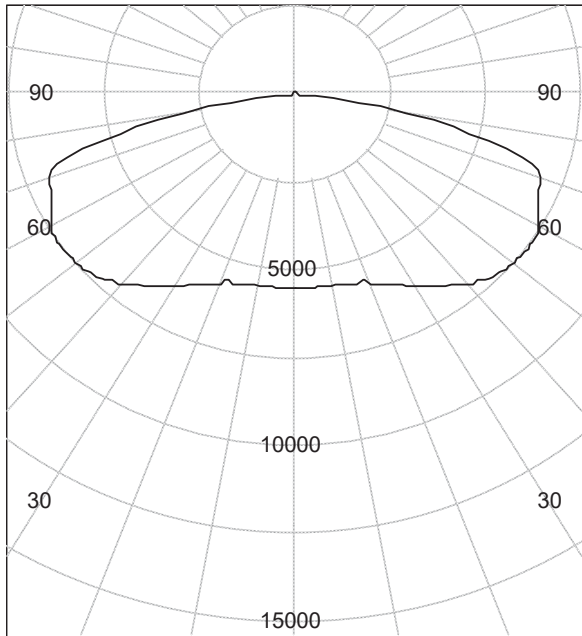
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Polar curve through L90 / L270

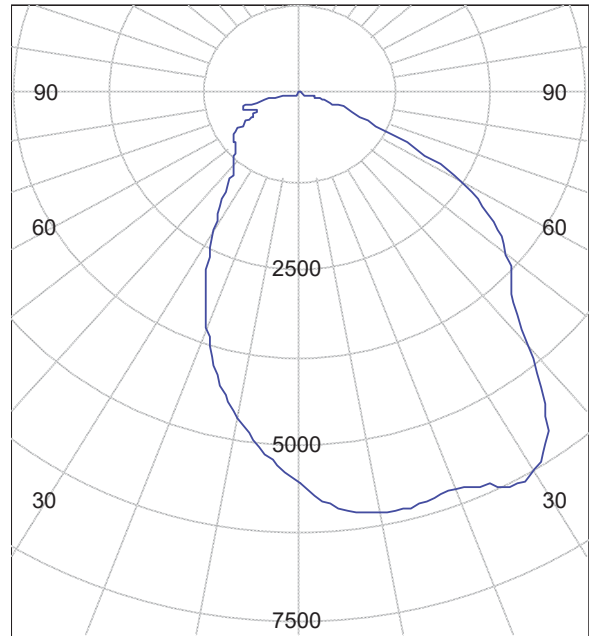


(L90)

(cd)

(L270)

Polar curve through L0 / L180



House side (L180)

(cd)

Street side (L0)



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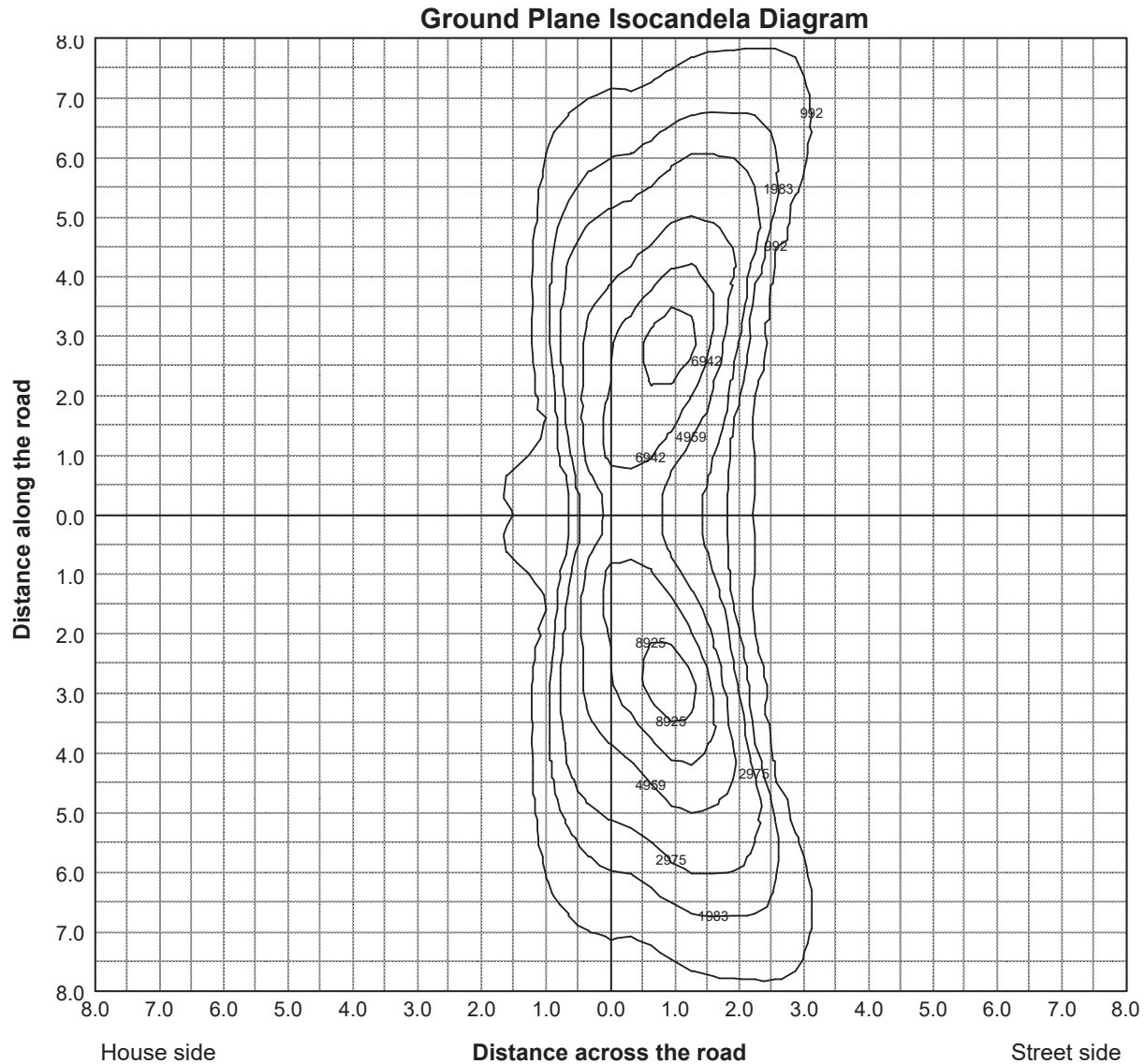
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The isocandela contour units are expressed as cd

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	5546	5546	5546	5546	5546	5546	5546	5546	5546
10.0	6052	6032	6015	5995	5986	5961	5927	5894	5849
20.0	5989	5967	5989	6024	6049	6071	6083	6100	6117
30.0	6162	6195	6203	6158	6172	6211	6287	6366	6458
35.0	5605	5774	6096	6318	6386	6423	6497	6585	6676
40.0	4640	4951	5612	6170	6418	6582	6698	6822	6963
45.0	3903	4114	4962	5767	6193	6548	6843	7049	7220
47.5	3740	3891	4665	5506	6007	6494	6893	7161	7309
50.0	3537	3690	4369	5245	5794	6393	6922	7279	7433
52.5	3283	3422	4108	5014	5581	6293	6953	7406	7607
55.0	2999	3130	3836	4790	5416	6204	6990	7556	7809
57.5	2696	2842	3514	4560	5262	6100	6952	7566	7938
60.0	2304	2481	3171	4280	5084	5921	6874	7613	8077
62.5	1703	1927	2721	3894	4814	5685	6766	7706	8260
65.0	1094	1271	1977	3358	4381	5360	6580	7856	8511
67.5	814	889	1159	2381	3589	4756	6181	7902	8883
70.0	610	679	773	1258	2281	3657	5370	7644	9266
72.5	427	495	570	676	1083	2076	3851	6608	9048
75.0	300	366	409	448	559	896	1785	4474	7480
77.5	222	273	284	316	334	408	572	1804	5301
80.0	155	197	179	209	214	214	253	533	2775
82.5	85	117	101	111	118	117	118	157	882
85.0	33	48	43	43	43	44	44	45	52
87.5	6	8	9	9	10	11	12	14	15
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								
	L70	L75	L80	L85	L90	L95	L100	L105	L110
0.0	5546	5546	5546	5546	5546	5546	5546	5546	5546
10.0	5803	5757	5687	5600	5521	5453	5392	5325	5251
20.0	6100	6055	5969	5845	5709	5578	5431	5270	5093
30.0	6538	6579	6553	6445	6285	6093	5858	5562	5220
35.0	6771	6854	6870	6784	6633	6422	6126	5756	5321
40.0	7096	7205	7235	7179	7029	6787	6395	5922	5377
45.0	7341	7428	7484	7469	7348	7075	6566	6002	5365
47.5	7408	7480	7545	7553	7416	7080	6564	5966	5274
50.0	7522	7567	7607	7616	7463	7087	6529	5882	5109
52.5	7687	7714	7702	7669	7495	7083	6466	5745	4900
55.0	7923	7901	7791	7700	7510	7069	6384	5613	4667
57.5	8058	8007	7841	7702	7470	6965	6212	5362	4278
60.0	8232	8152	7915	7676	7334	6753	5947	5033	3816
62.5	8475	8372	7999	7618	7175	6515	5656	4663	3306
65.0	8799	8666	8151	7594	6998	6251	5324	4240	2764
67.5	9235	9113	8460	7681	6901	6003	4974	3758	2177
70.0	9858	9736	8841	7757	6858	5830	4660	3243	1630
72.5	10110	9783	8568	7242	6398	5427	4238	2650	1185
75.0	8674	8610	7245	5928	5202	4439	3382	1748	725
77.5	6405	6665	5649	4437	3965	3377	2411	948	430
80.0	3884	3905	3411	2494	2278	1857	1160	358	238
82.5	1484	1356	1167	805	739	594	323	123	115
85.0	51	51	49	46	46	46	44	44	43
87.5	17	19	19	18	18	17	16	16	15
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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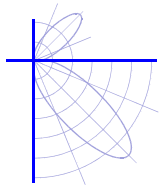
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Operating at 120v AC and 60 Hz.

Intensity data (cd)									
Vertical	L-Plane								
	L115	L120	L125	L130	L135	L140	L150	L165	L180
0.0	5546	5546	5546	5546	5546	5546	5546	5546	5546
10.0	5187	5122	5067	5006	4952	4897	4807	4719	4697
20.0	4913	4740	4569	4398	4241	4098	3854	3607	3529
30.0	4857	4490	4118	3764	3443	3166	2739	2339	2229
35.0	4856	4370	3872	3387	2960	2606	2131	1809	1704
40.0	4787	4170	3528	2907	2376	2006	1607	1400	1358
45.0	4632	3838	2986	2222	1732	1472	1299	1239	1207
47.5	4468	3548	2593	1844	1454	1296	1222	1175	1144
50.0	4205	3155	2151	1529	1269	1199	1148	1138	1118
52.5	3866	2679	1708	1299	1171	1132	1093	1165	1102
55.0	3443	2144	1329	1134	1101	1068	1050	1177	1067
57.5	2934	1628	1087	1025	1026	1030	1007	1122	969
60.0	2359	1227	961	941	948	982	954	962	817
62.5	1790	983	872	865	866	907	895	824	709
65.0	1324	846	797	782	785	821	825	736	630
67.5	1013	743	714	702	707	737	748	686	595
70.0	810	640	619	622	628	662	660	663	616
72.5	657	537	530	534	539	586	582	689	739
75.0	485	435	430	438	451	503	526	694	754
77.5	340	322	312	323	356	416	456	592	629
80.0	209	204	200	214	244	291	323	394	406
82.5	109	106	106	116	132	157	179	206	170
85.0	40	38	39	42	46	53	63	52	10
87.5	13	11	10	10	10	9	8	3	2
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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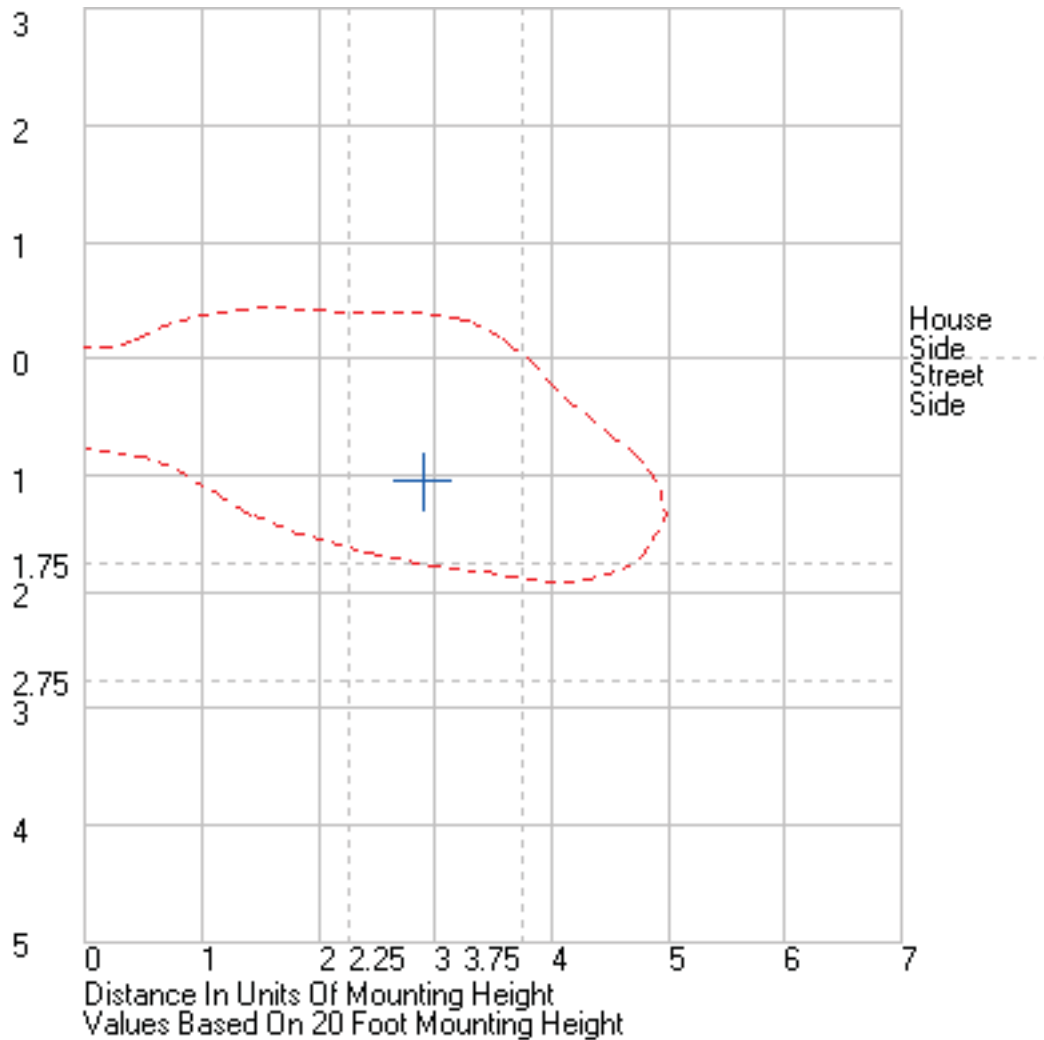
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LM-79-08 Performance Data

Spectral	CIE 1931 (x, y) ⁽¹⁾	(0.437, 0.413)
	CIE 1976 (u', v') ⁽¹⁾	(0.247, 0.525)
	Correlated Color Temperature (CCT) ⁽¹⁾	3070 K
	Spatial Δ (u', v') Uniformity ⁽²⁾	8.20E-03
	Color Rendering Index (Ra) ⁽¹⁾	72.8
	Special CRI 9 (R ₉) ^{(1),(3)}	-26.2
	Distance from Planckian Locus (Duv) ^{(1),(3)}	3.47E-03
	Scotopic/Photopic Ratio ^{(1),(3)}	1.20

Electrical	Voltage	120.0 V	(Setpoint 1)
	Frequency	60.0 Hz	
	Current	1.333 A	
	Power	159 W	
	Power Factor	0.99	
	Current THD	3.4 %	
	Voltage	277.0 V	(Setpoint 2)
	Frequency	60.0 Hz	
	Current	0.578 A	
	Power	155 W	
	Power Factor	0.97	
	Current THD	6.3 %	

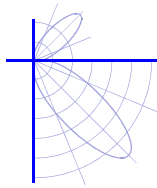
Performance data in accordance with IESNA LM-79-08. Spectral calculations are for a CIE 2° observer

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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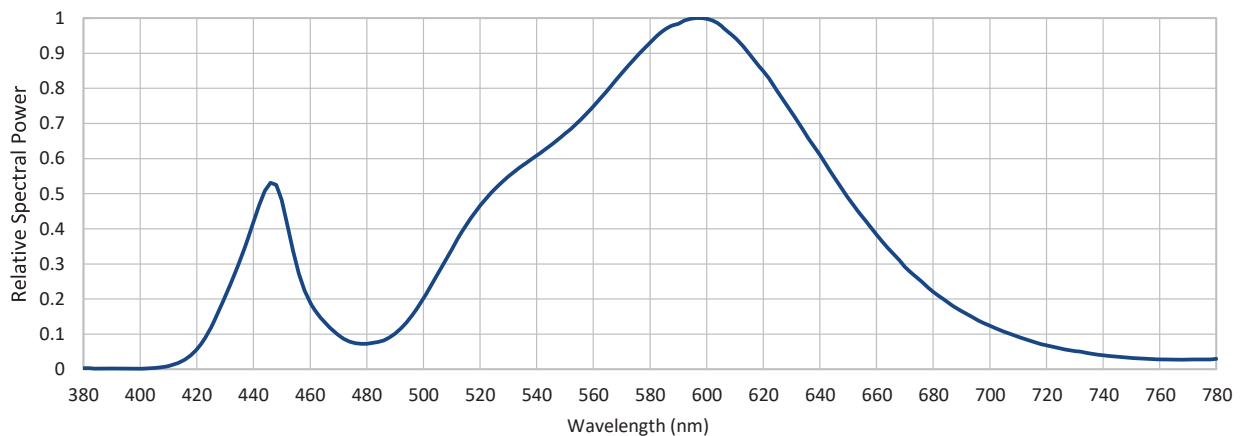
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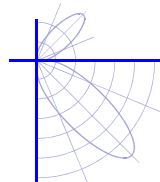
LM-79-08 Performance Data

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	0.190	540	0.608	620	0.849	700	0.124
385	0.002	465	0.135	545	0.638	625	0.792	705	0.107
390	0.002	470	0.097	550	0.671	630	0.732	710	0.092
395	0.002	475	0.076	555	0.707	635	0.670	715	0.079
400	0.002	480	0.073	560	0.749	640	0.611	720	0.068
405	0.004	485	0.080	565	0.795	645	0.547	725	0.059
410	0.009	490	0.102	570	0.842	650	0.489	730	0.052
415	0.025	495	0.143	575	0.888	655	0.434	735	0.045
420	0.057	500	0.202	580	0.930	660	0.384	740	0.040
425	0.120	505	0.271	585	0.966	665	0.337	745	0.036
430	0.206	510	0.341	590	0.984	670	0.292	750	0.033
435	0.306	515	0.410	595	0.999	675	0.256	755	0.030
440	0.419	520	0.466	600	0.998	680	0.221	760	0.028
445	0.520	525	0.512	605	0.978	685	0.192	765	0.028
450	0.482	530	0.549	610	0.943	690	0.166	770	0.027
455	0.305	535	0.581	615	0.899	695	0.144	775	0.028
								780	0.030





Test Report No. LLI-21176-2

LED Roadway Lighting - Roadway luminaire. Product ID: NXT "NXT-72M-5-X-2ES-7-X-XX-4-XX-X-XX-0675"

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 Osram Optotronic LED driver. Model: OT180W/UNV/1250C/2DIM/P6 set to 700ma.

Operating at 120v AC and 60 Hz.

LM-79-08 Performance Data

Spatial measurements

Vert. angle (°)	CIE 1976 (u',v') coordinates	
	Horiz. 0.0° plane	Horiz. ° plane
0.0	(0.245, 0.519)	(0.245, 0.519)
10.0	(0.246, 0.519)	(0.246, 0.521)
20.0	(0.246, 0.520)	(0.246, 0.521)
30.0	(0.246, 0.520)	(0.247, 0.524)
40.0	(0.246, 0.521)	(0.247, 0.525)
50.0	(0.246, 0.523)	(0.248, 0.529)
60.0	(0.247, 0.525)	(0.249, 0.533)
70.0	(0.248, 0.529)	I <= 10% peak
80.0	(0.249, 0.532)	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 2.5 / 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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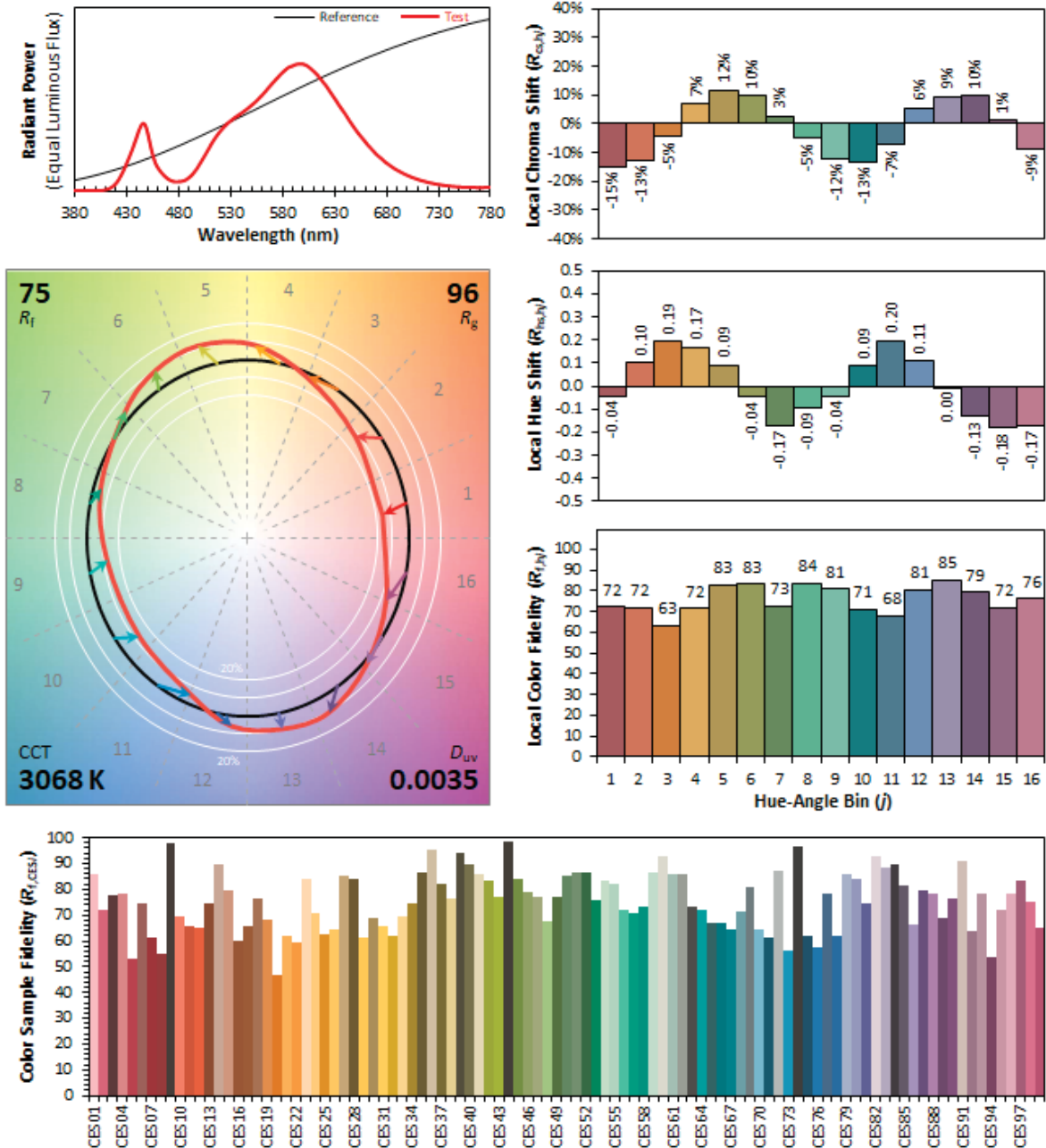
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Operating at 120v AC and 60 Hz.

Test Distance 8.0 m
Test Temperature 25.6 °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.