



## Report of Test LLI-21070-4

LED Roadway Lighting - Roadway luminaire. Product ID: "NXT-24S-X-X-2ES-4-XX-4-XX-X-XX-X-669"

Grey cast aluminum housing with clear flat glass lens.

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

One LED Roadway LED driver. Model: J100UNv2 1-10V set to 450ma.

Operating at 120v AC and 60 Hz.

With added front light shield.



### Performance Summary

Total Light Output	2151 lm	Min Power Factor	0.82 @ 240 V
Luminaire Power	36.1 W	Max THD(i)*	11.0 % @ 240 V
Luminous Efficacy	59.6 lm/W	0-90° Zonal Flux %	100.0 %
CCT	3040 K	80-90° Zonal Flux %	0.6 %
CIE(x,y) 1931	(0.436, 0.405)	BUG Rating*	B1-U0-G1
CRI	73	Street Classification*	Type II 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**



## Test Report No. LLI-21070-4

LED Roadway Lighting - Roadway luminaire. Product ID: "NXT-24S-X-X-2ES-4-XX-4-XX-X-XX-X-669"

Grey cast aluminum housing with clear flat glass lens.

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

One LED Roadway LED driver. Model: J100UNv2 1-10V set to 450ma.

Operating at 120v AC and 60 Hz.

With added front light shield.





## Test Report No. LLI-21070-4

LED Roadway Lighting - Roadway luminaire. Product ID: "NXT-24S-X-X-2ES-4-XX-4-XX-X-XX-X-669"

Grey cast aluminum housing with clear flat glass lens.

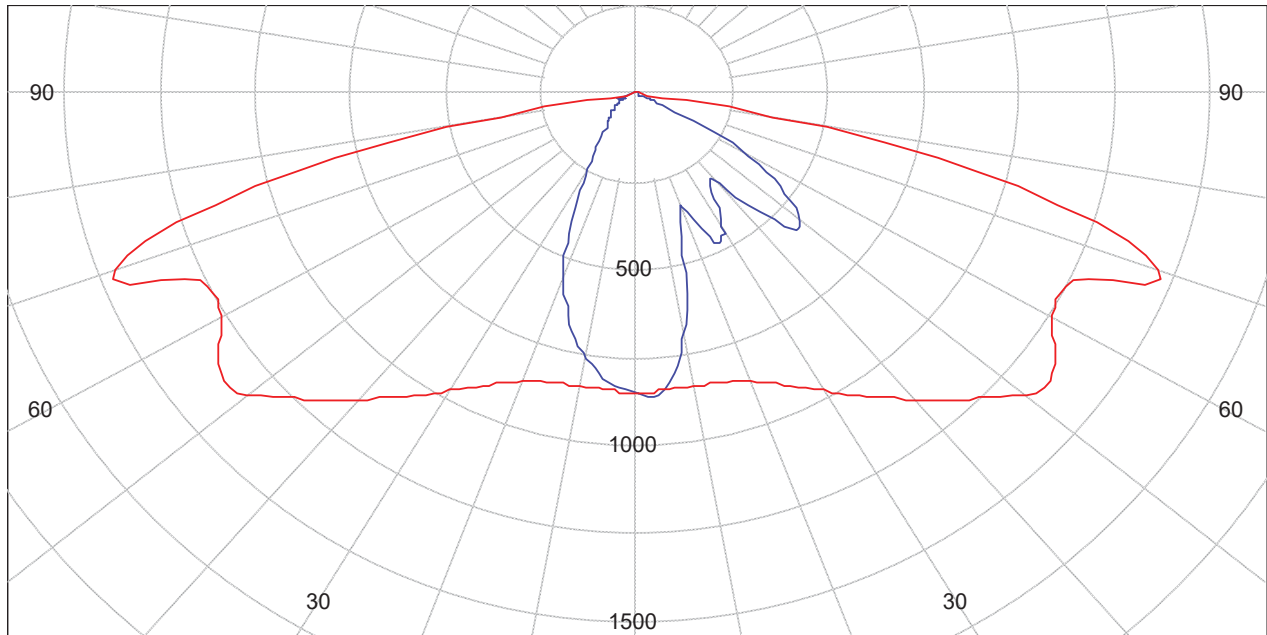
24 LEDs in one square array with clear plastic sheet of individual lenses.

One LED Roadway LED driver. Model: J100UNv2 1-10V set to 450ma.

Operating at 120v AC and 60 Hz.

With added front light shield.

### 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 %	53.2 %	53.2 %
House Side	0.0 %	46.8 %	46.8 %
	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

15-Mar-2021  
17-Mar-2021

Page 3 of 16

RT



## Test Report No. LLI-21070-4

LED Roadway Lighting - Roadway luminaire. Product ID: "NXT-24S-X-X-2ES-4-XX-4-XX-X-XX-X-669"

Grey cast aluminum housing with clear flat glass lens.

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

One LED Roadway LED driver. Model: J100UNv2 1-10V set to 450ma.

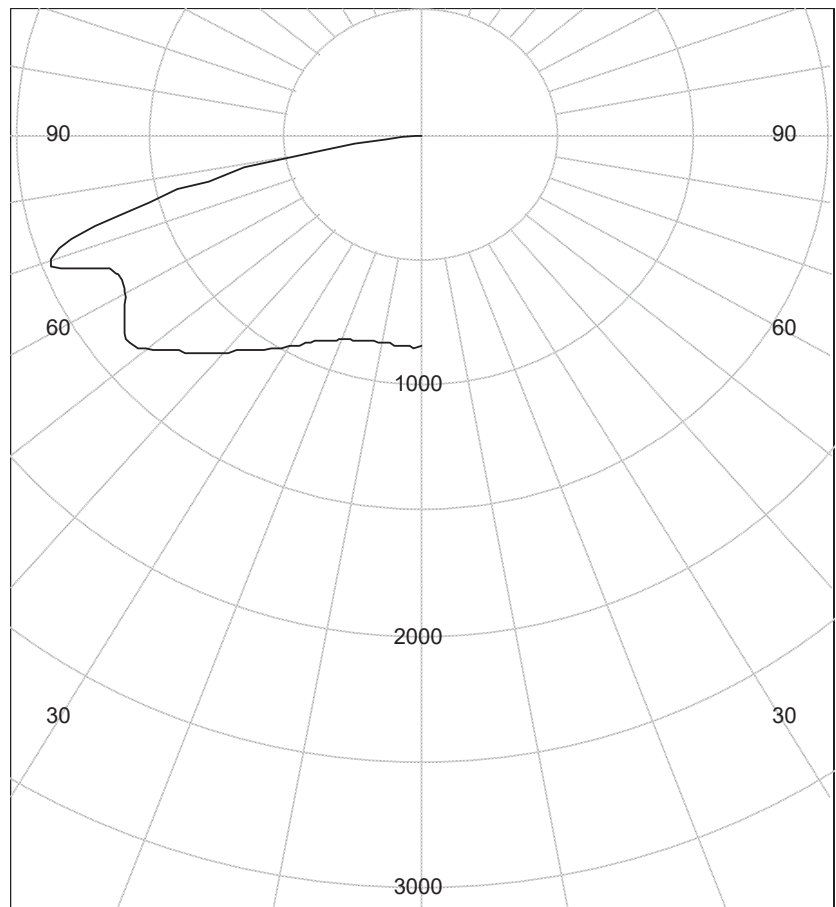
Operating at 120v AC and 60 Hz.

With added front light shield.

Intensity in principal plane  
(based on overall max intensity)

Vertical Angle (°)	Intensity (cd)
0.0	846.2
10.0	843.5
20.0	869.9
30.0	975.5
35.0	1049.7
40.0	1134.8
45.0	1226.1
47.5	1274.3
50.0	1327.3
52.5	1356.3
55.0	1334.3
57.5	1293.6
60.0	1259.0
62.5	1244.1
65.0	1264.3
67.5	1397.2
70.0	1449.6
72.5	1310.9
75.0	1036.7
77.5	740.1
80.0	361.4
82.5	95.6
85.0	5.3
87.5	1.4
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

1464.8 cd @ (90.0°, 69.0°)

Street side max intensity

1464.8 cd @ (90.0°, 69.0°)

Coordinates expressed in the C Type coordinate system

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





## Test Report No. LLI-21070-4

LED Roadway Lighting - Roadway luminaire. Product ID: "NXT-24S-X-X-2ES-4-XX-4-XX-X-XX-X-669"

Grey cast aluminum housing with clear flat glass lens.

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

One LED Roadway LED driver. Model: J100UNv2 1-10V set to 450ma.

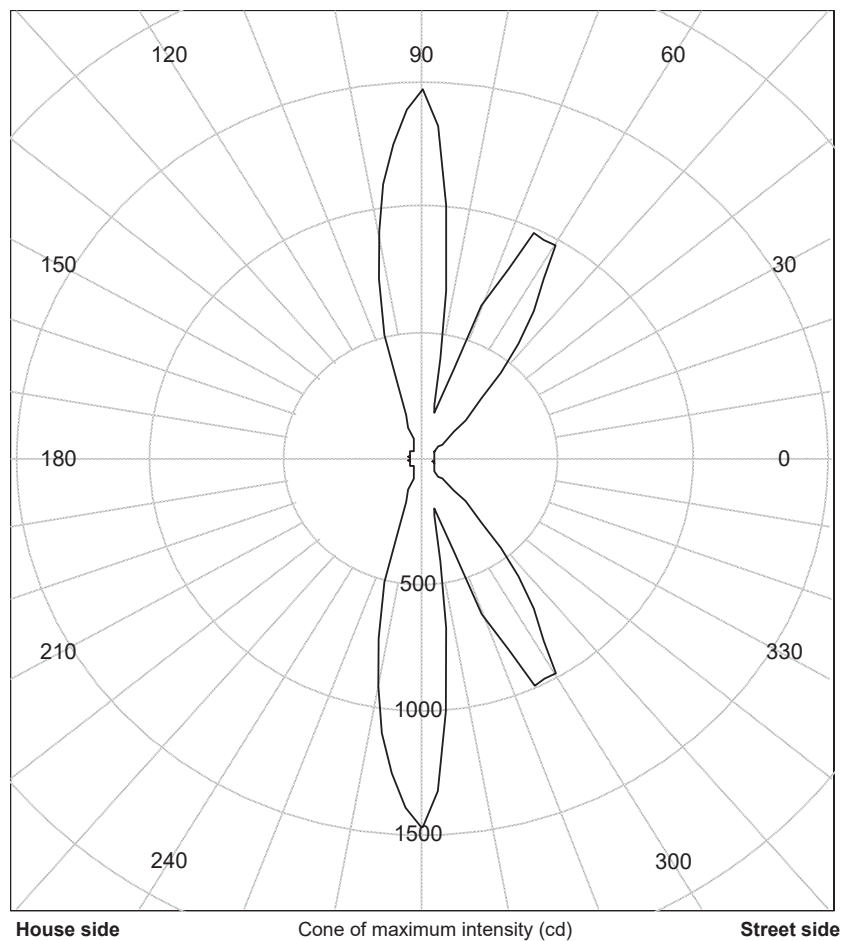
Operating at 120v AC and 60 Hz.

With added front light shield.

Intensity in principal cone  
(based on overall max intensity)

Lateral Plane (°)	(V69.0) (cd)
0	40.2
15	46.6
30	49.3
40	94.2
45	223.6
50	440.4
55	713.1
60	975.8
65	987.0
70	648.6
75	189.3
80	397.2
85	1005.6
90	1464.8
95	1258.2
100	925.5
105	513.0
110	183.5
115	85.2
120	60.9
125	54.2
130	49.1
135	46.0
140	47.3
150	49.3
165	50.2
180	37.9

### Principal Conical Surface



House side max intensity  
1464.8 cd @ (90.0°, 69.0°)

Street side max intensity  
1464.8 cd @ (90.0°, 69.0°)

Coordinates expressed in the C Type coordinate system

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



## Test Report No. LLI-21070-4

LED Roadway Lighting - Roadway luminaire. Product ID: "NXT-24S-X-X-2ES-4-XX-4-XX-X-XX-X-669"

Grey cast aluminum housing with clear flat glass lens.

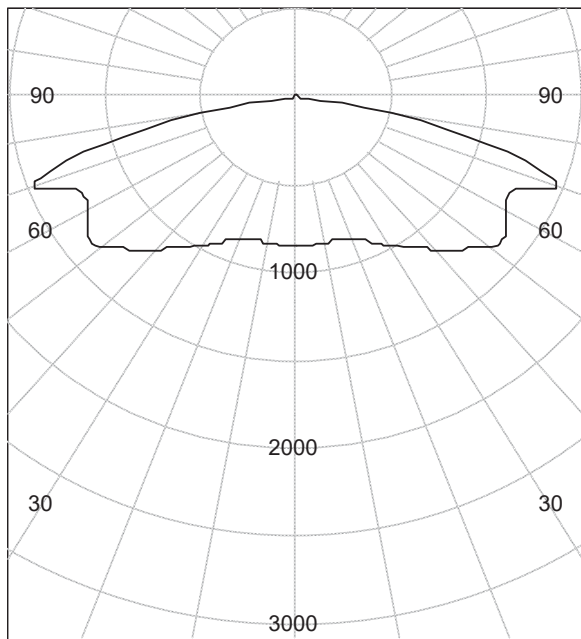
24 LEDs in one square array with clear plastic sheet of individual lenses.

One LED Roadway LED driver. Model: J100UNv2 1-10V set to 450ma.

Operating at 120v AC and 60 Hz.

With added front light shield.

**Polar curve through L90 / L270**

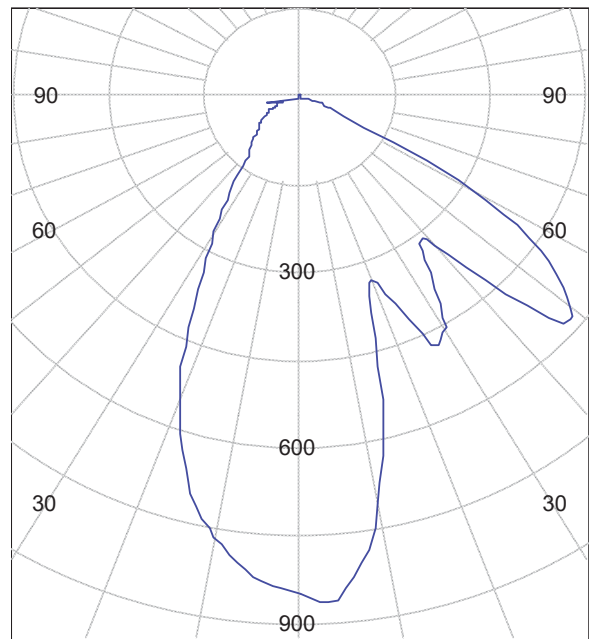


(L90)

(cd)

(L270)

**Polar curve through L0 / L180**



House side (L180)

(cd)

Street side (L0)



## Test Report No. LLI-21070-4

LED Roadway Lighting - Roadway luminaire. Product ID: "NXT-24S-X-X-2ES-4-XX-4-XX-X-XX-X-669"

Grey cast aluminum housing with clear flat glass lens.

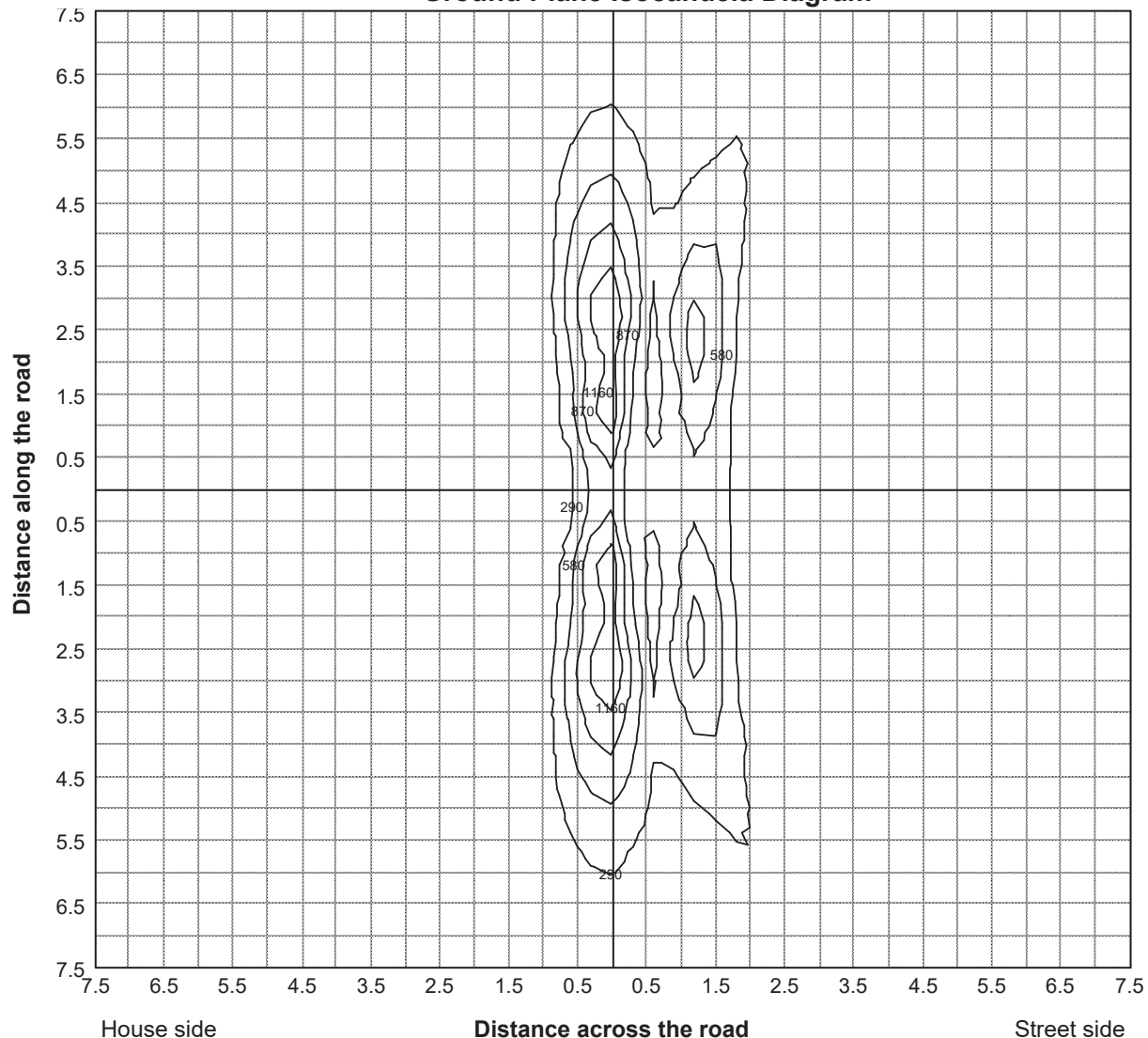
24 LEDs in one square array with clear plastic sheet of individual lenses.

One LED Roadway LED driver. Model: J100UNv2 1-10V set to 450ma.

Operating at 120v AC and 60 Hz.

With added front light shield.

### Ground Plane Isocandela Diagram



The isocandela contour units are expressed as cd

Upstream and downstream sides have been averaged.



## Test Report No. LLI-21070-4

LED Roadway Lighting - Roadway luminaire. Product ID: "NXT-24S-X-X-2ES-4-XX-4-XX-X-XX-X-669"

Grey cast aluminum housing with clear flat glass lens.

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

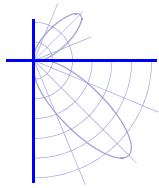
One LED Roadway LED driver. Model: J100UNv2 1-10V set to 450ma.

Operating at 120v AC and 60 Hz.

With added front light shield.

Intensity data (cd)									
Vertical	L-Plane								
	L0	L15	L30	L40	L45	L50	L55	L60	L65
0.0	846	846	846	846	846	846	846	846	846
10.0	706	714	753	779	787	800	815	832	842
20.0	333	333	365	440	493	552	609	672	733
30.0	454	453	432	354	310	294	321	402	512
35.0	340	361	380	381	361	308	270	291	392
40.0	331	326	294	299	309	308	279	248	297
45.0	505	470	371	286	245	234	237	224	222
47.5	571	559	455	358	289	228	220	217	202
50.0	558	574	551	457	371	275	206	202	193
52.5	516	536	613	576	486	373	252	192	187
55.0	460	486	593	691	630	512	362	230	194
57.5	393	424	549	730	767	659	482	299	169
60.0	289	336	482	680	785	770	609	411	216
62.5	139	186	356	569	709	824	778	591	345
65.0	57	75	171	384	581	775	932	846	574
67.5	45	53	62	179	364	601	859	992	874
70.0	36	43	44	64	145	320	591	906	1027
72.5	23	31	31	36	52	106	251	589	907
75.0	15	20	23	25	27	40	68	223	626
77.5	13	15	14	19	18	20	29	56	298
80.0	9	14	8	11	12	11	13	22	69
82.5	3	4	3	4	5	6	6	8	18
85.0	1	1	1	2	2	2	2	3	3
87.5	0	0	1	1	1	1	1	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
165.0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0





## Test Report No. LLI-21070-4

LED Roadway Lighting - Roadway luminaire. Product ID: "NXT-24S-X-X-2ES-4-XX-4-XX-X-XX-X-669"

Grey cast aluminum housing with clear flat glass lens.

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

One LED Roadway LED driver. Model: J100UNv2 1-10V set to 450ma.

Operating at 120v AC and 60 Hz.

With added front light shield.

Intensity data (cd)									
Vertical	L-Plane								
	L70	L75	L80	L85	L90	L95	L100	L105	L110
0.0	846	846	846	846	846	846	846	846	846
10.0	848	850	851	847	843	842	837	831	827
20.0	781	829	863	872	870	867	853	836	817
30.0	639	762	870	957	975	969	943	903	856
35.0	541	708	865	1002	1050	1043	1012	961	892
40.0	452	651	853	1049	1135	1129	1089	1018	921
45.0	349	577	832	1093	1226	1217	1161	1062	936
47.5	293	530	813	1108	1274	1264	1191	1080	932
50.0	253	491	797	1131	1327	1305	1214	1084	913
52.5	218	449	776	1139	1356	1330	1225	1075	872
55.0	193	395	726	1102	1334	1296	1187	1026	800
57.5	150	322	660	1047	1294	1241	1106	918	661
60.0	136	259	590	991	1259	1186	1029	820	530
62.5	148	206	522	952	1244	1155	980	744	414
65.0	233	173	468	935	1264	1151	950	674	314
67.5	457	162	422	975	1397	1202	928	583	228
70.0	758	243	377	995	1450	1262	923	461	160
72.5	846	437	317	858	1311	1163	825	312	110
75.0	717	497	259	639	1037	923	563	158	66
77.5	546	416	238	446	740	626	309	72	37
80.0	335	241	160	207	361	288	101	26	18
82.5	128	95	65	53	96	80	24	8	7
85.0	8	5	4	4	5	4	3	3	2
87.5	1	1	1	1	1	1	1	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
165.0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0



## Test Report No. LLI-21070-4

LED Roadway Lighting - Roadway luminaire. Product ID: "NXT-24S-X-X-2ES-4-XX-4-XX-X-XX-X-669"

Grey cast aluminum housing with clear flat glass lens.

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

One LED Roadway LED driver. Model: J100UNv2 1-10V set to 450ma.

Operating at 120v AC and 60 Hz.

With added front light shield.

Intensity data (cd)									
Vertical	L-Plane								
	L115	L120	L125	L130	L135	L140	L150	L165	L180
0.0	846	846	846	846	846	846	846	846	846
10.0	821	815	809	801	792	787	777	766	762
20.0	796	772	749	722	694	670	623	571	552
30.0	797	730	659	589	521	459	358	285	264
35.0	804	706	601	495	400	329	248	194	180
40.0	801	666	519	382	287	227	161	131	124
45.0	775	588	393	260	181	141	117	108	102
47.5	745	522	317	198	143	122	105	99	92
50.0	692	429	238	149	123	109	95	94	85
52.5	609	327	164	121	109	100	88	94	80
55.0	483	226	119	102	96	92	79	86	75
57.5	347	144	98	88	85	85	75	78	68
60.0	238	106	85	79	77	79	73	69	58
62.5	164	87	76	72	70	70	70	61	53
65.0	124	76	67	65	61	62	65	57	46
67.5	98	66	59	55	51	52	56	53	41
70.0	79	58	50	46	43	44	43	48	36
72.5	64	47	40	38	38	35	30	37	29
75.0	45	34	30	30	29	27	23	40	47
77.5	27	22	19	19	19	19	25	47	54
80.0	14	11	10	10	10	12	19	35	31
82.5	5	5	4	4	5	6	5	3	1
85.0	2	2	2	2	1	2	1	1	0
87.5	1	1	1	1	0	0	0	0	0
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



## Test Report No. LLI-21070-4

LED Roadway Lighting - Roadway luminaire. Product ID: "NXT-24S-X-X-2ES-4-XX-4-XX-X-XX-X-669"

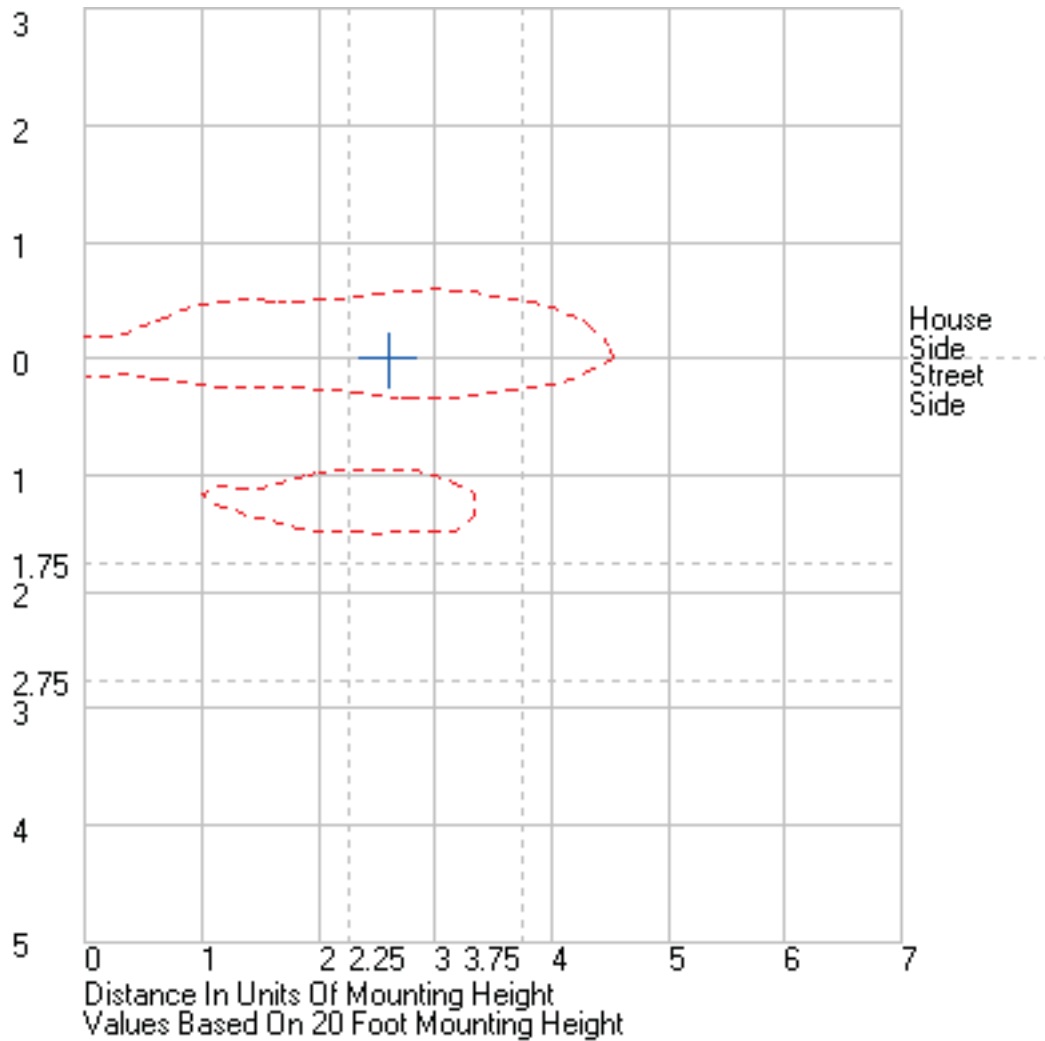
Grey cast aluminum housing with clear flat glass lens.

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

One LED Roadway LED driver. Model: J100UNv2 1-10V set to 450ma.

Operating at 120v AC and 60 Hz.

With added front light shield.





## Test Report No. LLI-21070-4

LED Roadway Lighting - Roadway luminaire. Product ID: "NXT-24S-X-X-2ES-4-XX-4-XX-X-XX-X-669"

Grey cast aluminum housing with clear flat glass lens.

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

One LED Roadway LED driver. Model: J100UNv2 1-10V set to 450ma.

Operating at 120v AC and 60 Hz.

With added front light shield.

### LM-79-08 Performance Data

<b>Spectral</b>	CIE 1931 (x, y) <sup>(1)</sup>	(0.436, 0.405)
	CIE 1976 (u', v') <sup>(1)</sup>	(0.249, 0.522)
	Correlated Color Temperature (CCT) <sup>(1)</sup>	3040 K
	Spatial Δ (u', v') Uniformity <sup>(2)</sup>	8.72E-03
	Color Rendering Index (Ra) <sup>(1)</sup>	73.4
	Special CRI 9 (R <sub>9</sub> ) <sup>(1),(3)</sup>	-21.9
	Distance from Planckian Locus (Duv) <sup>(1),(3)</sup>	7.66E-04
	Scotopic/Photopic Ratio <sup>(1),(3)</sup>	1.20

<b>Electrical</b>	Voltage	120.0 V	(Setpoint 1)
	Frequency	60.0 Hz	
	Current	0.309 A	
	Power	36.1 W	
	Power Factor	0.97	
	Current THD	4.1 %	
	Voltage	240.0 V	(Setpoint 2)
	Frequency	60.0 Hz	
	Current	0.180 A	
	Power	35.5 W	
	Power Factor	0.82	
	Current THD	11 %	

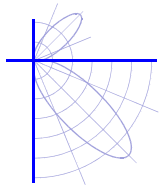
Performance data in accordance with IESNA LM-79-08. Spectral calculations are for a CIE 2° observer

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



## Test Report No. LLI-21070-4

LED Roadway Lighting - Roadway luminaire. Product ID: "NXT-24S-X-X-2ES-4-XX-4-XX-X-XX-X-669"

Grey cast aluminum housing with clear flat glass lens.

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

One LED Roadway LED driver. Model: J100UNv2 1-10V set to 450ma.

Operating at 120v AC and 60 Hz.

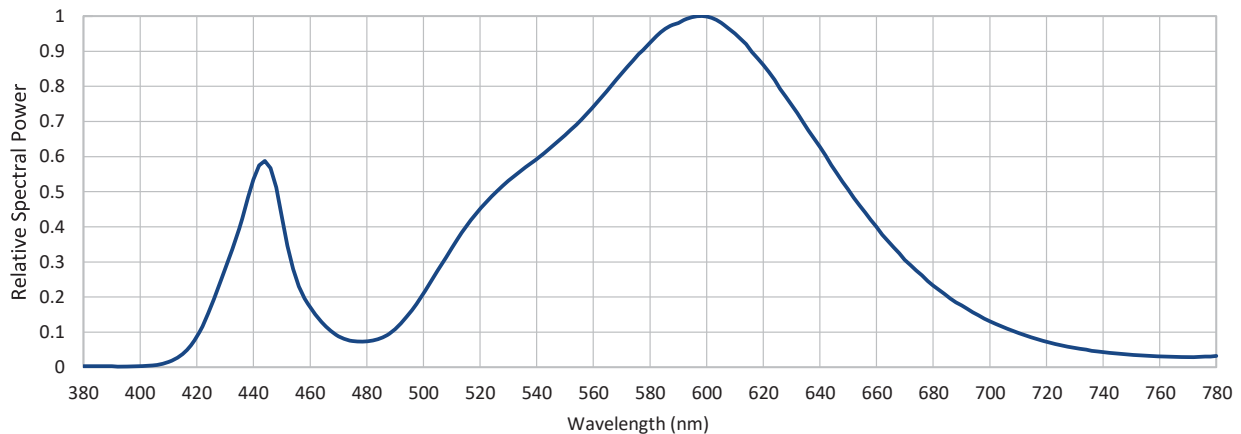
With added front light shield.

### LM-79-08 Performance Data

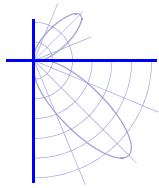
#### Relative spectral power distribution

(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	0.170	540	0.593	620	0.861	700	0.131
385	0.003	465	0.121	545	0.626	625	0.805	705	0.113
390	0.003	470	0.088	550	0.661	630	0.747	710	0.098
395	0.002	475	0.075	555	0.699	635	0.686	715	0.085
400	0.003	480	0.074	560	0.742	640	0.628	720	0.073
405	0.006	485	0.083	565	0.789	645	0.564	725	0.063
410	0.015	490	0.109	570	0.836	650	0.506	730	0.055
415	0.038	495	0.153	575	0.883	655	0.451	735	0.048
420	0.087	500	0.211	580	0.924	660	0.400	740	0.043
425	0.174	505	0.275	585	0.961	665	0.351	745	0.039
430	0.279	510	0.339	590	0.980	670	0.306	750	0.035
435	0.397	515	0.400	595	0.997	675	0.269	755	0.033
440	0.535	520	0.451	600	0.999	680	0.233	760	0.031
445	0.577	525	0.495	605	0.981	685	0.203	765	0.030
450	0.431	530	0.531	610	0.950	690	0.176	770	0.029
455	0.255	535	0.564	615	0.909	695	0.152	775	0.030
								780	0.032







## Test Report No. LLI-21070-4

LED Roadway Lighting - Roadway luminaire. Product ID: "NXT-24S-X-X-2ES-4-XX-4-XX-X-XX-X-669"

Grey cast aluminum housing with clear flat glass lens.

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

One LED Roadway LED driver. Model: J100UNv2 1-10V set to 450ma.

Operating at 120v AC and 60 Hz.

With added front light shield.

### LM-79-08 Performance Data

#### Spatial measurements

Vert. angle (°)	CIE 1976 (u',v') coordinates	
	Horiz. 0.0° plane	Horiz. ° plane
0.0	( 0.247, 0.515)	( 0.247, 0.515)
10.0	( 0.248, 0.515)	( 0.248, 0.519)
20.0	( 0.248, 0.516)	( 0.251, 0.525)
30.0	( 0.248, 0.516)	( 0.252, 0.530)
40.0	( 0.248, 0.518)	( 0.249, 0.523)
50.0	( 0.248, 0.519)	( 0.249, 0.526)
60.0	( 0.249, 0.522)	( 0.251, 0.530)
70.0	( 0.249, 0.524)	I <= 10% peak
80.0	( 0.250, 0.528)	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 2.25 / 4.5 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)

Page 14 of 16 **RT**



## Test Report No. LLI-21070-4

LED Roadway Lighting - Roadway luminaire. Product ID: "NXT-24S-X-X-2ES-4-XX-4-XX-X-XX-X-669"

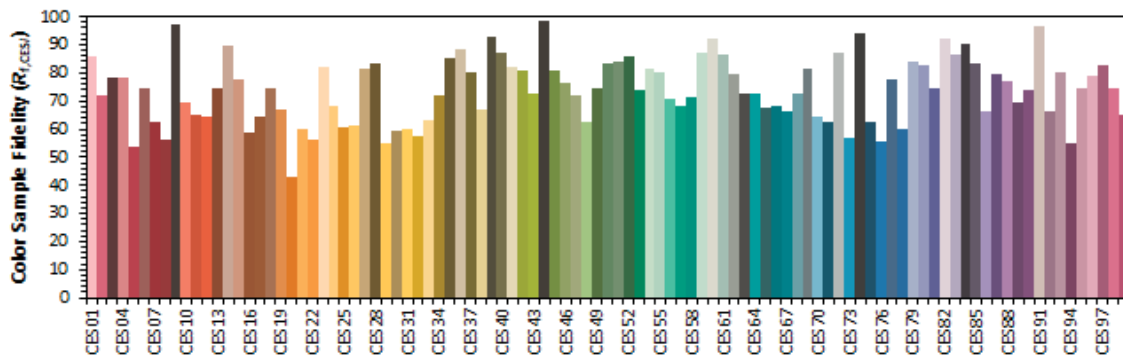
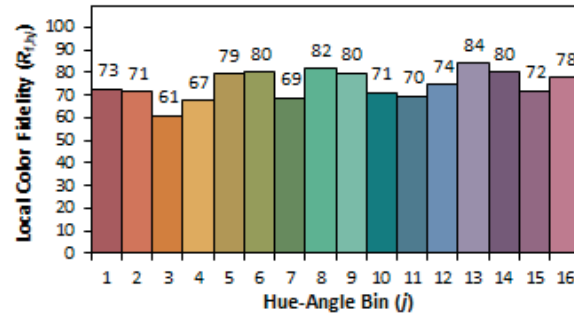
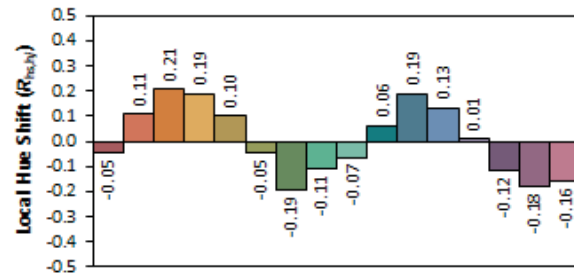
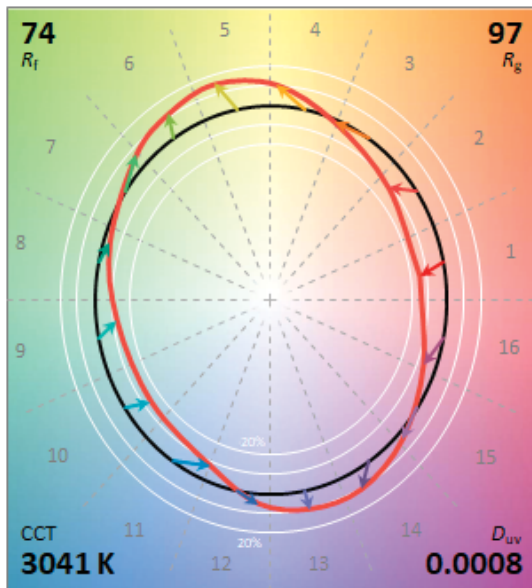
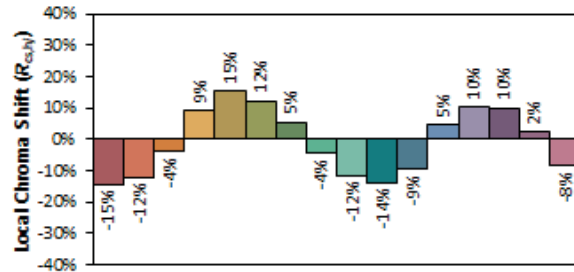
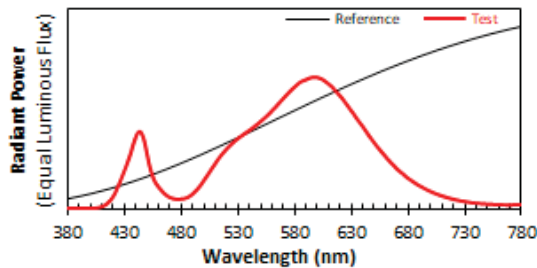
Grey cast aluminum housing with clear flat glass lens.

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

One LED Roadway LED driver. Model: J100UNv2 1-10V set to 450ma.

Operating at 120v AC and 60 Hz.

With added front light shield.





## Test Report No. LLI-21070-4

LED Roadway Lighting - Roadway luminaire. Product ID: "NXT-24S-X-X-2ES-4-XX-4-XX-X-XX-X-669"

Grey cast aluminum housing with clear flat glass lens.

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

One LED Roadway LED driver. Model: J100UNv2 1-10V set to 450ma.

Operating at 120v AC and 60 Hz.

With added front light shield.

**Test Distance** 8.0 m  
**Test Temperature** 24.8 °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.