

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P568090

Luminaire Tested: **8SNX-90SL-LW-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P568090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-90SL-LW-UNV-L830-CD
Description: 8FT 9000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

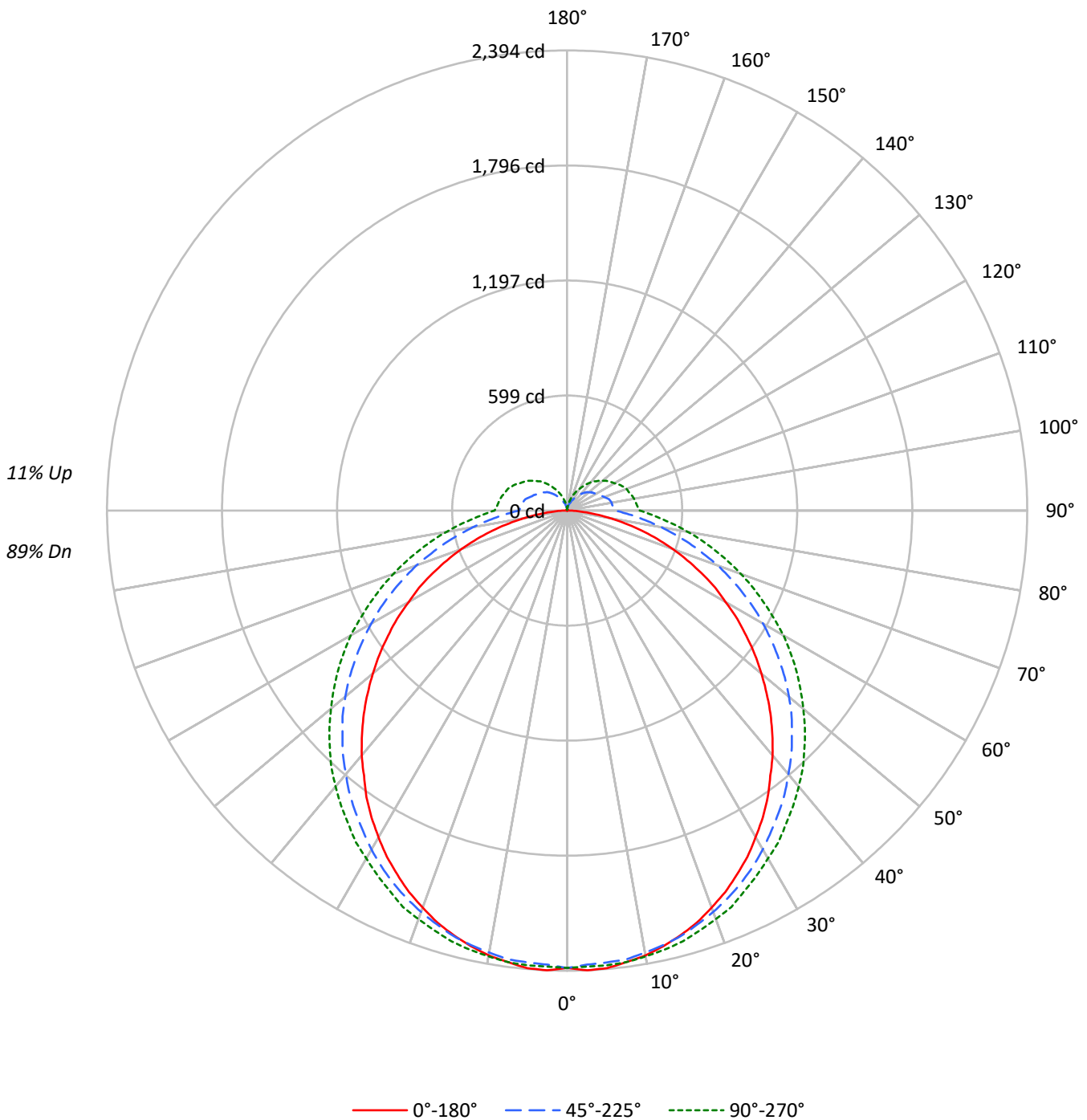
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8470.0 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 59.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89				
1	105	100	95	90	101	96	92	88	90	86	83	84	81	79	79	76	74	71				
2	95	86	79	73	91	83	76	71	78	72	68	73	68	64	68	65	61	58				
3	86	75	67	60	83	73	65	59	68	61	56	64	58	54	60	55	51	49				
4	79	66	57	50	75	64	56	49	60	53	47	57	50	46	53	48	44	41				
5	72	59	50	43	69	57	49	42	54	46	41	51	44	39	48	42	38	35				
6	67	53	44	37	64	51	43	37	48	41	35	46	39	34	43	38	33	31				
7	62	48	39	33	59	47	38	32	44	37	31	42	35	30	39	34	29	27				
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	30	26	24				
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22				
10	50	37	29	24	48	36	28	23	34	27	23	32	26	22	31	25	21	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12805	12805	12805
5°	12884	12228	12120
10°	12795	11754	11515
15°	12666	11293	10969
20°	12492	10814	10423
25°	12291	10354	9889
30°	12050	9879	9378
35°	11786	9402	8899
40°	11483	8935	8443
45°	11156	8467	7975
50°	10781	7984	7484
55°	10370	7444	7003
60°	9887	6880	6494
65°	9389	6270	5914
70°	8689	5619	5343
75°	7762	4857	4738
80°	6256	4088	4134
85°	4404	3373	3514



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.0	2.7
10°-20°	649.6	7.7
20°-30°	987.7	11.7
30°-40°	1198.9	14.2
40°-50°	1266.9	15.0
50°-60°	1185.5	14.0
60°-70°	972.8	11.5
70°-80°	669.1	7.9
80°-90°	366.4	4.3
90°-100°	235.9	2.8
100°-110°	211.7	2.5
110°-120°	175.2	2.1
120°-130°	135.0	1.6
130°-140°	94.8	1.1
140°-150°	57.1	0.7
150°-160°	27.4	0.3
160°-170°	9.0	0.1
170°-180°	1.1	0.0
0°-30°	1863.2	22.0
0°-40°	3062.1	36.2
0°-60°	5514.6	65.1
0°-90°	7522.8	88.8
90°-120°	622.9	7.4
90°-150°	909.8	10.7
90°-180°	947.0	11.2
0°-180°	8470.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2379	2379	2379	2379	2379	
5°	2389	2384	2360	2379	2374	227
15°	2286	2296	2291	2320	2320	645
25°	2090	2114	2139	2183	2183	963
35°	1820	1864	1918	1972	1987	1137
45°	1496	1565	1653	1727	1746	1153
55°	1138	1231	1344	1428	1457	1018
65°	770	873	1006	1099	1128	763
75°	402	510	657	760	795	424
85°	88	211	358	456	491	102
90°	0	118	250	343	378	6
95°	0	113	240	329	363	0
105°	0	93	226	309	338	3
115°	5	83	191	275	309	5
125°	5	69	162	236	265	4
135°	5	54	132	191	216	4
145°	5	39	93	147	162	3
155°	5	24	59	93	108	2
165°	5	15	29	44	54	1
175°	5	5	10	10	5	0
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2379.2	2379.2	2379.2	2379.2	2379.2
2.5°	2394.0	2389.1	2364.5	2384.1	2374.3
5°	2389.1	2384.1	2359.6	2379.2	2374.3
7.5°	2369.4	2369.4	2354.7	2374.3	2369.4
10°	2349.8	2349.8	2335.1	2359.6	2354.7
12.5°	2320.4	2325.3	2315.5	2344.9	2340.0
15°	2286.0	2295.8	2290.9	2320.4	2320.4
17.5°	2246.8	2256.6	2256.6	2290.9	2290.9
20°	2197.7	2212.5	2222.3	2261.5	2261.5
22.5°	2148.7	2168.3	2183.0	2217.4	2232.1
25°	2089.8	2114.3	2138.9	2183.0	2183.0
27.5°	2030.9	2060.4	2089.8	2134.0	2138.9
30°	1962.3	1996.6	2035.8	2080.0	2089.8
32.5°	1893.6	1937.7	1977.0	2030.9	2045.7
35°	1820.0	1864.1	1918.1	1972.1	1986.8
37.5°	1736.6	1790.6	1859.2	1918.1	1932.8
40°	1663.0	1721.9	1790.6	1859.2	1874.0
42.5°	1579.6	1643.4	1726.8	1790.6	1815.1
45°	1496.2	1564.9	1653.2	1726.8	1746.4
47.5°	1407.9	1486.4	1584.5	1653.2	1677.7
50°	1319.6	1403.0	1506.0	1584.5	1604.1
52.5°	1231.3	1319.6	1427.5	1506.0	1530.6
55°	1138.1	1231.3	1344.1	1427.5	1457.0
57.5°	1049.8	1143.0	1260.8	1349.1	1378.5
60°	951.7	1059.6	1177.4	1265.7	1300.0
62.5°	868.3	966.4	1094.0	1182.3	1211.7
65°	770.2	873.2	1005.7	1098.9	1128.3
67.5°	677.0	784.9	917.4	1015.5	1044.9
70°	583.8	691.7	834.0	927.2	961.5
72.5°	490.6	603.4	740.8	843.8	878.1
75°	402.3	510.2	657.4	760.4	794.7
77.5°	309.1	426.8	574.0	677.0	716.2
80°	225.7	348.3	495.5	598.5	637.7
82.5°	152.1	274.7	421.9	524.9	564.2
85°	88.3	210.9	358.1	456.2	490.6
87.5°	44.2	161.9	299.2	397.4	431.7
90°	0.0	117.7	250.2	343.4	377.7
92.5°	0.0	112.8	245.3	333.6	367.9
95°	0.0	112.8	240.4	328.7	363.0
97.5°	0.0	107.9	235.5	328.7	358.1
100°	0.0	103.0	235.5	323.8	353.2
102.5°	0.0	98.1	230.6	318.9	348.3
105°	0.0	93.2	225.7	309.1	338.5
107.5°	4.9	93.2	215.8	304.2	333.6
110°	4.9	88.3	206.0	299.2	328.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.9	83.4	196.2	289.4	318.9
115°	4.9	83.4	191.3	274.7	309.1
117.5°	4.9	78.5	181.5	264.9	299.2
120°	4.9	78.5	176.6	255.1	284.5
122.5°	4.9	73.6	166.8	245.3	274.7
125°	4.9	68.7	161.9	235.5	264.9
127.5°	4.9	63.8	157.0	225.7	255.1
130°	4.9	58.9	147.2	215.8	240.4
132.5°	4.9	58.9	142.3	201.1	230.6
135°	4.9	54.0	132.5	191.3	215.8
137.5°	4.9	49.1	122.6	181.5	206.0
140°	4.9	44.2	112.8	171.7	191.3
142.5°	4.9	44.2	103.0	157.0	176.6
145°	4.9	39.2	93.2	147.2	161.9
147.5°	4.9	34.3	83.4	132.5	147.2
150°	4.9	34.3	73.6	117.7	132.5
152.5°	4.9	29.4	63.8	107.9	122.6
155°	4.9	24.5	58.9	93.2	107.9
157.5°	4.9	24.5	49.1	78.5	93.2
160°	4.9	19.6	44.2	63.8	78.5
162.5°	4.9	19.6	39.2	54.0	68.7
165°	4.9	14.7	29.4	44.2	54.0
167.5°	4.9	14.7	24.5	34.3	44.2
170°	4.9	9.8	19.6	24.5	34.3
172.5°	4.9	9.8	14.7	14.7	14.7
175°	4.9	4.9	9.8	9.8	4.9
177.5°	4.9	4.9	4.9	4.9	4.9
180°	4.9	4.9	4.9	4.9	4.9

(END OF REPORT)