

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: P567456

Luminaire Tested: **8SNX-162HL-LC-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-162HL-LC-UNV-L940-CD
Description: 8FT 16200 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

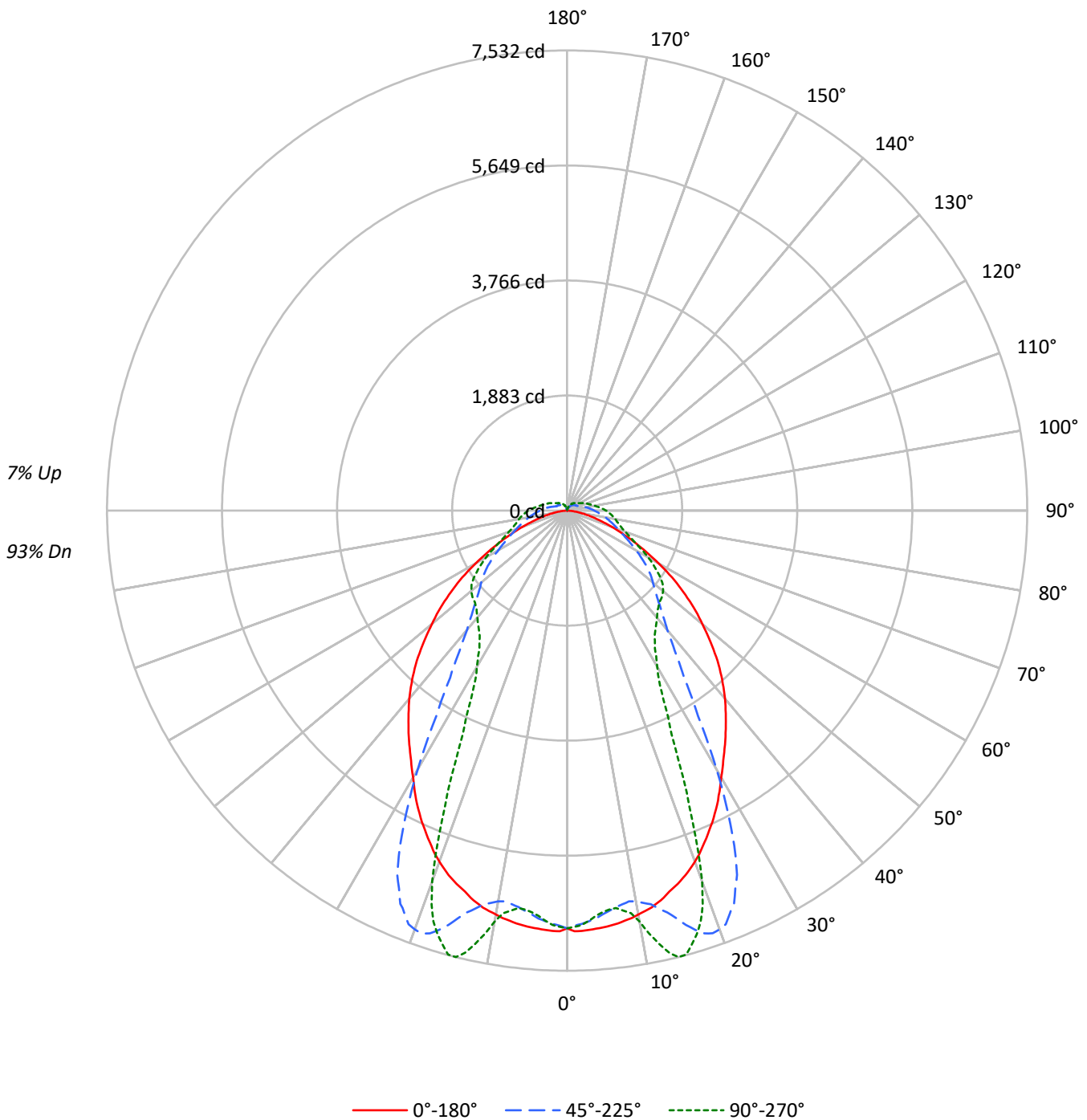
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15202.0 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): 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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	83	78	84	79	75	80	76	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36				
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36814	36814	36814
5°	36924	34400	33697
10°	36549	32701	33415
15°	35766	34052	35573
20°	34752	35500	29772
25°	33075	31854	18306
30°	30972	23731	13248
35°	29264	16383	11176
40°	27742	12717	10300
45°	25958	10829	9741
50°	23609	9721	9563
55°	21128	8792	8847
60°	17916	7609	7653
65°	14571	6628	6387
70°	11435	5958	5624
75°	8868	5539	5244
80°	6239	5247	5191
85°	3471	5006	5154



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.5	4.2
10°-20°	1944.9	12.8
20°-30°	2618.8	17.2
30°-40°	2478.5	16.3
40°-50°	2187.6	14.4
50°-60°	1776.8	11.7
60°-70°	1208.4	7.9
70°-80°	777.6	5.1
80°-90°	517.0	3.4
90°-100°	355.3	2.3
100°-110°	238.5	1.6
110°-120°	168.2	1.1
120°-130°	120.2	0.8
130°-140°	84.8	0.6
140°-150°	52.7	0.3
150°-160°	25.7	0.2
160°-170°	9.0	0.1
170°-180°	1.6	0.0
0°-30°	5200.2	34.2
0°-40°	7678.7	50.5
0°-60°	11643.0	76.6
0°-90°	14146.1	93.1
90°-120°	762.0	5.0
90°-150°	1019.7	6.7
90°-180°	1056.0	6.9
0°-180°	15202.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6840	6840	6840	6840	6840	
5°	6847	6784	6638	6634	6601	650
15°	6455	6413	6908	7518	7525	1820
25°	5624	6668	6580	4779	4041	2581
35°	4519	6341	3342	2574	2495	2828
45°	3482	4266	2114	2089	2133	2673
55°	2319	2523	1588	1773	1841	2071
65°	1195	1360	1063	1181	1219	1200
75°	460	643	750	840	880	500
85°	70	274	532	673	720	91
90°	2	190	443	596	636	4
95°	2	146	374	506	541	2
105°	5	102	246	346	388	5
115°	5	88	181	258	290	5
125°	7	74	156	195	209	7
135°	9	58	128	162	172	7
145°	9	42	90	125	137	6
155°	12	26	56	84	95	5
165°	12	16	30	42	51	3
175°	14	14	14	14	12	1
180°	12	12	12	12	12	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6840.2	6840.2	6840.2	6840.2	6840.2
1°	6886.6	6865.7	6796.1	6833.2	6814.6
2°	6884.3	6849.4	6770.5	6812.3	6789.1
3°	6872.6	6835.5	6733.4	6758.9	6724.1
4°	6861.0	6816.9	6693.9	6693.9	6654.5
5°	6847.1	6784.4	6638.2	6633.6	6601.1
6°	6830.9	6758.9	6589.5	6584.8	6566.3
7°	6807.7	6714.8	6536.1	6568.6	6554.7
8°	6779.8	6673.0	6508.2	6589.5	6610.4
9°	6754.3	6622.0	6475.7	6654.5	6670.7
10°	6712.5	6575.6	6496.6	6784.4	6833.2
11°	6677.7	6536.1	6543.1	6912.1	7058.3
12°	6642.9	6494.3	6587.2	7072.3	7251.0
13°	6584.8	6461.8	6684.6	7246.3	7429.7
14°	6533.8	6436.3	6779.8	7422.7	7531.8
15°	6454.9	6413.1	6907.5	7517.9	7524.9
16°	6401.5	6396.8	7056.0	7524.9	7394.9
17°	6341.1	6389.9	7176.7	7404.2	7251.0
18°	6273.8	6403.8	7276.5	7253.3	7076.9
19°	6197.2	6417.7	7318.3	7044.4	6816.9
20°	6113.7	6438.6	7295.1	6826.2	6459.5
21°	6030.1	6466.5	7251.0	6596.4	5990.6
22.5°	5874.6	6533.8	7042.1	5951.2	5215.4
23°	5830.5	6547.7	6993.3	5749.3	5013.5
24°	5721.4	6605.7	6770.5	5278.1	4479.6
25°	5623.9	6668.4	6580.2	4779.1	4041.0
26°	5514.8	6714.8	6292.4	4319.5	3771.7
27°	5408.1	6742.7	5965.1	3962.0	3470.0
28°	5285.0	6772.8	5610.0	3653.3	3242.5
29°	5169.0	6777.5	5259.5	3407.3	3063.8
30°	5043.7	6754.3	4890.5	3210.0	2952.4
32.5°	4769.8	6626.6	3987.6	2834.0	2673.9
35°	4519.1	6341.1	3342.3	2574.1	2495.1
37.5°	4266.1	5890.8	2889.7	2411.6	2386.0
40°	4017.7	5357.0	2548.5	2281.6	2286.2
42.5°	3755.5	4806.9	2314.1	2174.8	2195.7
45°	3481.6	4266.1	2114.5	2089.0	2133.1
47.5°	3177.5	3771.7	1956.6	2033.2	2100.6
50°	2889.7	3282.0	1833.6	1979.9	2049.5
52.5°	2615.8	2880.4	1722.2	1889.3	1970.6
55°	2318.7	2523.0	1587.6	1773.3	1840.6
57.5°	2035.6	2200.4	1446.0	1629.4	1689.7
60°	1724.5	1882.4	1302.1	1473.9	1531.9
62.5°	1443.7	1610.8	1179.1	1318.4	1364.8
65°	1195.3	1360.1	1063.0	1181.4	1218.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	974.8	1151.2	967.9	1067.7	1102.5
70°	768.3	954.0	884.3	974.8	1012.0
72.5°	601.2	789.2	814.7	898.2	935.4
75°	459.6	642.9	749.7	840.2	879.7
77.5°	341.2	524.6	689.4	793.8	835.6
80°	225.1	417.8	636.0	752.0	800.8
82.5°	141.6	336.6	582.6	710.2	761.3
85°	69.6	273.9	531.5	673.1	719.5
87.5°	23.2	227.5	485.1	636.0	675.4
90°	2.3	190.3	443.3	596.5	636.0
92.5°	2.3	164.8	408.5	550.1	589.5
95°	2.3	146.2	373.7	506.0	540.8
97.5°	2.3	132.3	341.2	459.6	496.7
100°	2.3	118.4	306.4	415.5	454.9
102.5°	4.6	109.1	276.2	378.3	420.1
105°	4.6	102.1	246.0	345.8	387.6
107.5°	4.6	97.5	220.5	320.3	359.8
110°	4.6	92.8	201.9	297.1	338.9
112.5°	4.6	90.5	190.3	276.2	315.7
115°	4.6	88.2	181.0	257.6	290.1
117.5°	7.0	85.9	174.1	239.1	264.6
120°	7.0	81.2	169.4	222.8	243.7
122.5°	7.0	76.6	162.5	208.9	225.1
125°	7.0	74.3	155.5	195.0	208.9
127.5°	7.0	69.6	148.5	183.4	197.3
130°	9.3	65.0	141.6	174.1	185.7
132.5°	9.3	60.3	134.6	169.4	178.7
135°	9.3	58.0	127.7	162.5	171.8
137.5°	9.3	53.4	120.7	155.5	164.8
140°	9.3	48.7	111.4	146.2	155.5
142.5°	9.3	46.4	102.1	136.9	146.2
145°	9.3	41.8	90.5	125.3	136.9
147.5°	11.6	39.5	81.2	116.1	125.3
150°	11.6	34.8	72.0	106.8	116.1
152.5°	11.6	30.2	62.7	95.2	104.4
155°	11.6	25.5	55.7	83.6	95.2
157.5°	11.6	23.2	48.7	69.6	83.6
160°	11.6	20.9	41.8	60.3	72.0
162.5°	11.6	18.6	37.1	51.1	62.7
165°	11.6	16.2	30.2	41.8	51.1
167.5°	13.9	16.2	25.5	32.5	41.8
170°	13.9	16.2	20.9	25.5	32.5
172.5°	13.9	13.9	16.2	18.6	20.9
175°	13.9	13.9	13.9	13.9	11.6
177.5°	13.9	13.9	13.9	11.6	11.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	11.6	11.6	11.6	11.6	11.6

(END OF REPORT)