

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: P567460

Luminaire Tested: **8SNX-162HL-LN-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-162HL-LN-UNV-L840-CD
Description: 8FT 16200 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

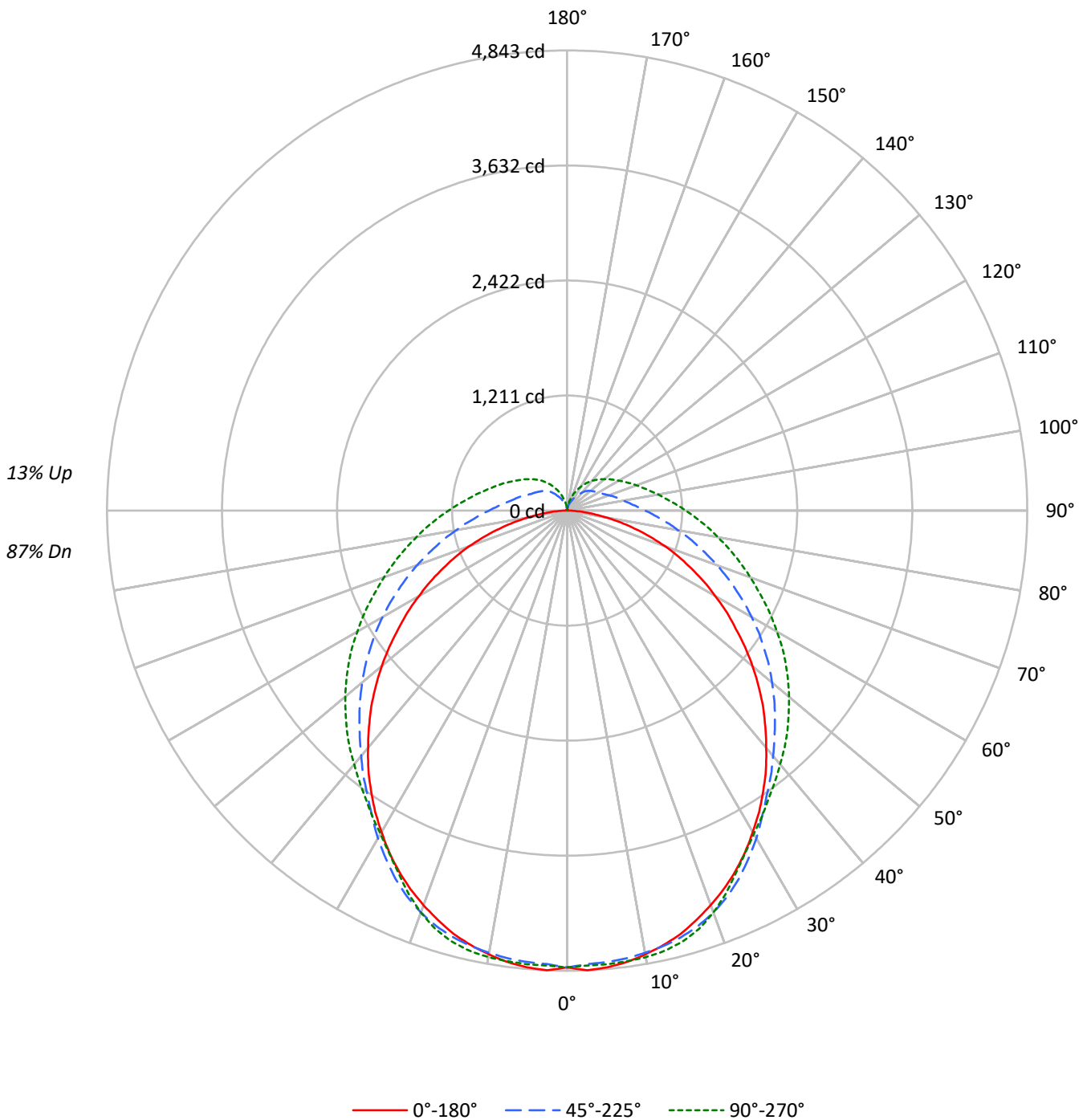
Lumens per Lamp: N/A
Luminaire Lumens: 17355.0 lumens
Efficiency: N/A
Efficacy: 157.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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	0
RCR																		
0	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90	87
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25875	25875	25875
5°	26021	24716	24467
10°	25825	23785	23338
15°	25563	22902	22199
20°	25120	21907	20748
25°	24641	20695	19047
30°	23994	19332	17626
35°	23302	17941	16566
40°	22510	16826	15708
45°	21740	15837	14968
50°	20817	14927	14222
55°	19732	14013	13492
60°	18708	13101	12729
65°	17575	12181	12029
70°	16290	11318	11396
75°	14249	10479	10875
80°	11581	9757	10433
85°	8364	9255	10180



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.7	2.6
10°-20°	1313.1	7.6
20°-30°	1955.3	11.3
30°-40°	2307.2	13.3
40°-50°	2406.2	13.9
50°-60°	2261.2	13.0
60°-70°	1909.6	11.0
70°-80°	1442.8	8.3
80°-90°	994.6	5.7
90°-100°	696.0	4.0
100°-110°	519.4	3.0
110°-120°	391.5	2.3
120°-130°	292.0	1.7
130°-140°	205.0	1.2
140°-150°	123.9	0.7
150°-160°	59.3	0.3
160°-170°	19.0	0.1
170°-180°	2.3	0.0
0°-30°	3725.2	21.5
0°-40°	6032.4	34.8
0°-60°	10699.7	61.7
0°-90°	15046.7	86.7
90°-120°	1606.9	9.3
90°-150°	2227.8	12.8
90°-180°	2308.0	13.3
0°-180°	17355.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4808	4808	4808	4808	4808	
5°	4825	4816	4769	4805	4793	458
15°	4614	4634	4646	4705	4696	1299
25°	4190	4275	4275	4237	4204	1928
35°	3598	3731	3660	3690	3698	2250
45°	2916	3060	3092	3219	3278	2245
55°	2166	2351	2530	2733	2807	1943
65°	1442	1671	1954	2210	2295	1432
75°	738	1024	1418	1715	1824	786
85°	168	527	983	1306	1421	188
90°	3	374	821	1136	1248	12
95°	3	291	694	994	1098	2
105°	6	209	536	777	865	6
115°	6	180	415	618	697	6
125°	9	153	350	506	571	8
135°	9	118	291	412	462	7
145°	12	85	203	315	353	7
155°	12	56	124	200	232	5
165°	15	35	65	88	118	4
175°	15	15	18	18	9	1
180°	9	9	9	9	9	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4807.7	4807.7	4807.7	4807.7	4807.7
2.5°	4843.0	4831.2	4778.2	4807.7	4792.9
5°	4825.3	4816.5	4769.4	4804.7	4792.9
7.5°	4792.9	4790.0	4754.7	4795.9	4784.1
10°	4742.9	4751.8	4725.3	4781.2	4772.4
12.5°	4684.1	4701.7	4692.9	4754.7	4745.9
15°	4613.5	4634.1	4645.8	4704.7	4695.9
17.5°	4519.3	4557.6	4584.0	4631.1	4616.4
20°	4419.3	4472.2	4501.7	4525.2	4501.7
22.5°	4310.4	4381.0	4398.7	4386.9	4363.4
25°	4189.8	4275.1	4275.1	4236.9	4204.5
27.5°	4054.4	4160.4	4130.9	4086.8	4060.3
30°	3907.3	4033.8	3983.8	3933.8	3927.9
32.5°	3760.2	3892.6	3819.1	3807.3	3816.1
35°	3598.4	3730.8	3660.2	3689.6	3698.4
37.5°	3436.6	3569.0	3521.9	3566.0	3592.5
40°	3260.0	3401.3	3371.8	3451.3	3486.6
42.5°	3086.4	3233.5	3230.6	3333.6	3386.5
45°	2915.8	3060.0	3092.3	3218.8	3277.7
47.5°	2730.4	2877.5	2957.0	3104.1	3162.9
50°	2548.0	2706.9	2815.7	2980.5	3048.2
52.5°	2359.7	2527.4	2677.5	2859.9	2930.5
55°	2165.5	2350.9	2530.3	2733.4	2806.9
57.5°	1991.9	2180.2	2392.1	2601.0	2686.3
60°	1800.7	2009.6	2242.0	2462.7	2548.0
62.5°	1627.1	1841.9	2100.8	2333.2	2424.4
65°	1441.7	1671.2	1953.7	2209.6	2295.0
67.5°	1271.1	1506.4	1815.4	2074.3	2168.4
70°	1094.5	1344.6	1680.0	1953.7	2050.8
72.5°	912.1	1176.9	1544.7	1836.0	1936.0
75°	738.5	1023.9	1418.2	1715.3	1824.2
77.5°	576.7	876.8	1303.4	1609.4	1715.3
80°	417.8	744.4	1182.8	1500.6	1609.4
82.5°	276.6	629.6	1085.7	1403.5	1518.2
85°	167.7	526.7	982.7	1306.4	1421.1
87.5°	76.5	441.3	900.3	1221.0	1332.8
90°	2.9	373.7	820.9	1135.7	1247.5
92.5°	2.9	326.6	756.2	1062.2	1171.0
95°	2.9	291.3	694.4	994.5	1097.5
97.5°	2.9	267.7	647.3	929.8	1029.8
100°	2.9	244.2	600.2	870.9	973.9
102.5°	5.9	223.6	564.9	817.9	915.0
105°	5.9	208.9	535.5	776.8	865.0
107.5°	5.9	200.1	503.1	735.6	817.9
110°	5.9	191.2	467.8	694.4	776.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.9	185.4	441.3	659.1	738.5
115°	5.9	179.5	414.9	617.9	697.3
117.5°	5.9	176.5	400.1	585.5	662.0
120°	8.8	167.7	382.5	556.1	629.6
122.5°	8.8	158.9	364.8	532.5	597.3
125°	8.8	153.0	350.1	506.1	570.8
127.5°	8.8	144.2	335.4	482.5	541.4
130°	8.8	135.3	323.6	459.0	514.9
132.5°	8.8	126.5	308.9	435.5	488.4
135°	8.8	117.7	291.3	411.9	461.9
137.5°	8.8	108.9	273.6	388.4	435.5
140°	8.8	100.0	250.1	364.8	409.0
142.5°	8.8	91.2	226.6	341.3	379.6
145°	11.8	85.3	203.0	314.8	353.1
147.5°	11.8	76.5	179.5	288.3	320.7
150°	11.8	70.6	161.8	261.9	291.3
152.5°	11.8	61.8	144.2	232.4	261.9
155°	11.8	55.9	123.6	200.1	232.4
157.5°	11.8	50.0	105.9	167.7	203.0
160°	11.8	47.1	91.2	138.3	173.6
162.5°	14.7	41.2	76.5	111.8	144.2
165°	14.7	35.3	64.7	88.3	117.7
167.5°	14.7	29.4	53.0	67.7	91.2
170°	14.7	23.5	41.2	47.1	70.6
172.5°	14.7	17.7	29.4	32.4	35.3
175°	14.7	14.7	17.7	17.7	8.8
177.5°	14.7	14.7	11.8	8.8	2.9
180°	8.8	8.8	8.8	8.8	8.8

(END OF REPORT)