

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: P567445

Luminaire Tested: **8SNX-162HL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-162HL-FDL-UNV-L850-CD
Description: 8FT 16200 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

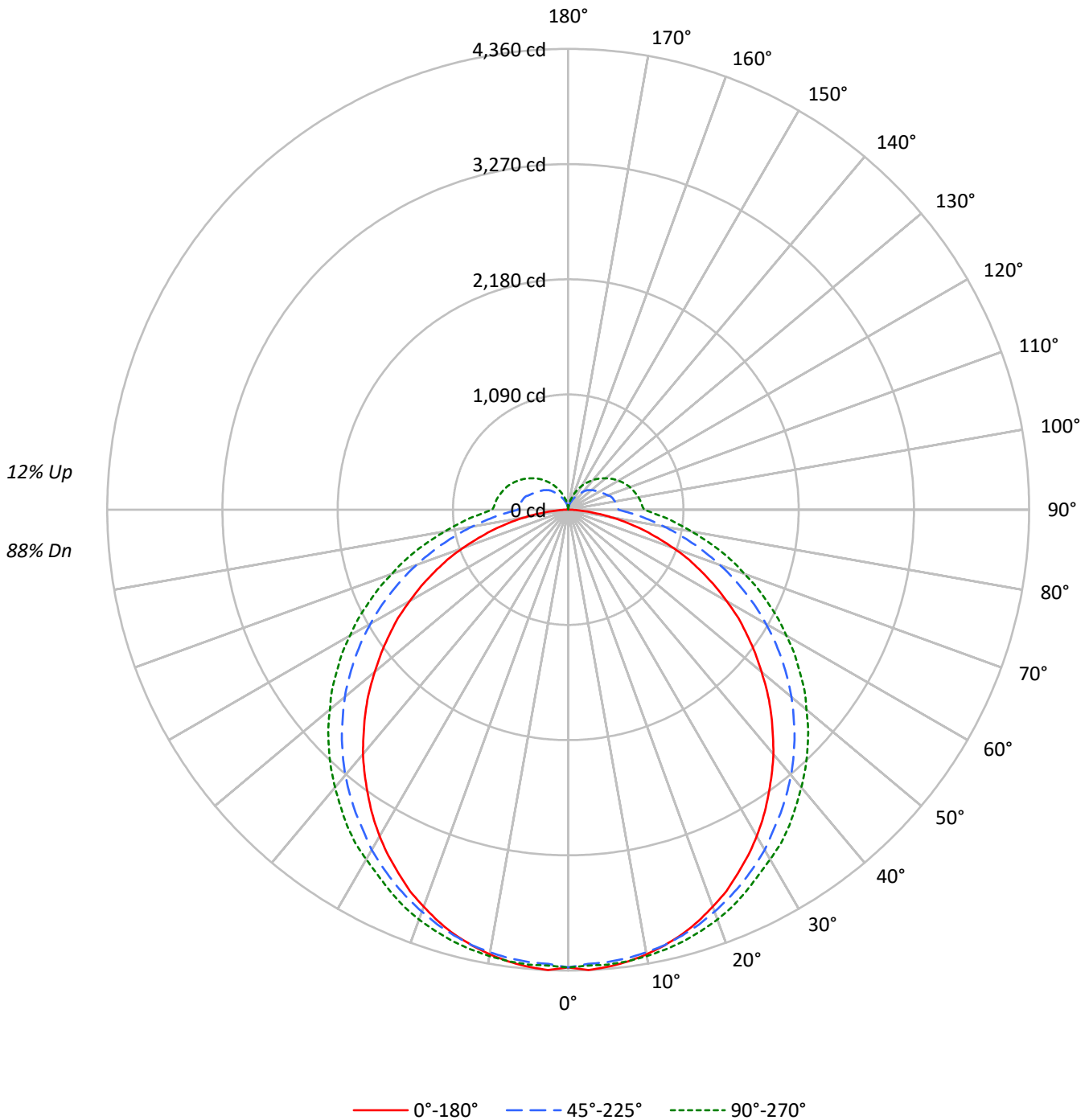
Lumens per Lamp: N/A
Luminaire Lumens: 15590.0 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
CIE Type: Semi-Direct

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	105	105	105	98	98	98	91	91	91	88
1	105	99	95	90	101	96	92	88	89	86	83	84	81	78	78	76	74	71
2	95	86	79	72	91	83	76	71	77	72	67	72	68	64	68	64	61	58
3	86	75	66	60	82	72	65	58	68	61	56	63	58	53	59	55	51	48
4	78	66	57	50	75	64	56	49	60	53	47	56	50	45	53	48	43	41
5	72	59	50	43	69	57	48	42	54	46	41	50	44	39	47	42	38	35
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	43	37	33	31
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	27	23	21
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23305	23305	23305
5°	23442	22963	23001
10°	23323	22754	22763
15°	23143	22502	22541
20°	22847	22198	22287
25°	22490	21890	21948
30°	22100	21581	21658
35°	21601	21208	21456
40°	21122	20901	21145
45°	20538	20546	20883
50°	19860	20169	20551
55°	19221	19702	20254
60°	18484	19205	19891
65°	17585	18636	19536
70°	16443	18015	19133
75°	14813	17340	18995
80°	12538	16947	18844
85°	9337	17389	19862



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.1	2.6
10°-20°	1182.5	7.6
20°-30°	1799.0	11.5
30°-40°	2187.4	14.0
40°-50°	2314.2	14.8
50°-60°	2169.3	13.9
60°-70°	1784.6	11.4
70°-80°	1234.8	7.9
80°-90°	686.6	4.4
90°-100°	452.3	2.9
100°-110°	405.6	2.6
110°-120°	335.7	2.2
120°-130°	259.5	1.7
130°-140°	183.7	1.2
140°-150°	110.8	0.7
150°-160°	53.2	0.3
160°-170°	17.4	0.1
170°-180°	2.1	0.0
0°-30°	3392.6	21.8
0°-40°	5580.0	35.8
0°-60°	10063.4	64.6
0°-90°	13769.4	88.3
90°-120°	1193.7	7.7
90°-150°	1747.8	11.2
90°-180°	1821.0	11.7
0°-180°	15590.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4330	4330	4330	4330	4330	
5°	4341	4333	4296	4330	4320	412
15°	4159	4173	4170	4226	4226	1172
25°	3796	3850	3895	3981	3983	1750
35°	3300	3388	3503	3615	3647	2065
45°	2712	2854	3028	3164	3201	2091
55°	2064	2248	2464	2619	2672	1847
65°	1396	1596	1845	2026	2082	1384
75°	726	937	1212	1404	1482	770
85°	160	398	673	860	934	184
90°	3	224	475	654	718	11
95°	3	214	462	633	694	2
105°	3	184	432	595	649	3
115°	5	160	366	529	587	4
125°	5	136	312	451	507	5
135°	5	107	262	371	416	4
145°	5	77	182	280	315	3
155°	8	53	112	179	208	4
165°	8	35	61	83	107	2
175°	8	13	19	19	11	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4330.3	4330.3	4330.3	4330.3	4330.3
2.5°	4359.7	4346.3	4300.9	4330.3	4317.0
5°	4341.0	4333.0	4295.6	4330.3	4319.6
7.5°	4311.6	4308.9	4279.6	4319.6	4308.9
10°	4271.6	4276.9	4252.9	4295.6	4287.6
12.5°	4220.8	4228.8	4218.2	4266.2	4260.9
15°	4159.4	4172.8	4170.1	4226.2	4226.2
17.5°	4084.7	4103.4	4114.1	4178.1	4178.1
20°	3996.6	4026.0	4047.3	4116.7	4127.4
22.5°	3908.5	3943.2	3975.2	4047.3	4063.3
25°	3796.4	3849.7	3895.1	3980.6	3983.2
27.5°	3686.9	3745.6	3807.0	3889.8	3897.8
30°	3566.8	3641.5	3716.3	3796.4	3820.4
32.5°	3438.6	3521.4	3604.1	3710.9	3743.0
35°	3299.8	3387.9	3502.7	3614.8	3646.8
37.5°	3161.0	3259.7	3393.2	3508.0	3537.4
40°	3019.5	3128.9	3278.4	3395.9	3430.6
42.5°	2861.9	2995.4	3155.6	3281.1	3321.1
45°	2712.4	2853.9	3027.5	3163.6	3201.0
47.5°	2554.9	2704.4	2891.3	3035.5	3078.2
50°	2386.7	2557.6	2757.8	2902.0	2942.0
52.5°	2229.2	2402.8	2613.7	2763.2	2819.2
55°	2063.7	2247.9	2464.2	2619.0	2672.4
57.5°	1908.9	2085.1	2317.3	2472.2	2538.9
60°	1732.7	1927.5	2159.8	2328.0	2381.4
62.5°	1567.1	1764.7	2005.0	2178.5	2239.9
65°	1396.3	1596.5	1844.8	2026.3	2082.4
67.5°	1236.1	1433.6	1687.3	1866.1	1938.2
70°	1059.9	1268.1	1527.1	1711.3	1772.7
72.5°	886.3	1102.6	1366.9	1564.5	1633.9
75°	726.2	937.1	1212.1	1404.3	1481.7
77.5°	571.3	784.9	1062.6	1260.1	1326.9
80°	416.5	640.7	923.7	1118.6	1182.7
82.5°	275.0	509.9	790.2	985.1	1054.5
85°	160.2	397.8	672.8	859.7	934.4
87.5°	69.4	301.7	563.3	747.5	808.9
90°	2.7	224.3	475.2	654.1	718.2
92.5°	2.7	218.9	464.5	640.7	702.1
95°	2.7	213.6	461.9	632.7	694.1
97.5°	2.7	210.9	456.5	627.4	686.1
100°	2.7	202.9	448.5	616.7	675.4
102.5°	2.7	192.2	440.5	606.0	662.1
105°	2.7	184.2	432.5	595.3	648.7
107.5°	2.7	176.2	419.1	582.0	635.4
110°	2.7	168.2	397.8	568.7	622.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	165.5	381.8	550.0	606.0
115°	5.3	160.2	365.8	528.6	587.3
117.5°	5.3	157.5	352.4	507.2	568.7
120°	5.3	149.5	339.1	488.6	547.3
122.5°	5.3	141.5	325.7	469.9	528.6
125°	5.3	136.2	312.4	451.2	507.2
127.5°	5.3	128.1	301.7	432.5	483.2
130°	5.3	122.8	288.3	411.1	461.9
132.5°	5.3	114.8	275.0	389.8	437.8
135°	5.3	106.8	261.6	371.1	416.5
137.5°	5.3	96.1	245.6	349.7	392.5
140°	5.3	88.1	224.3	328.4	368.4
142.5°	5.3	82.8	202.9	304.3	341.7
145°	5.3	77.4	181.5	280.3	315.0
147.5°	5.3	72.1	162.9	256.3	288.3
150°	5.3	64.1	144.2	234.9	261.6
152.5°	8.0	58.7	128.1	208.2	234.9
155°	8.0	53.4	112.1	178.9	208.2
157.5°	8.0	48.1	96.1	149.5	181.5
160°	8.0	42.7	82.8	122.8	154.8
162.5°	8.0	40.0	72.1	101.4	130.8
165°	8.0	34.7	61.4	82.8	106.8
167.5°	8.0	26.7	50.7	64.1	88.1
170°	8.0	21.4	40.0	45.4	66.7
172.5°	8.0	16.0	29.4	32.0	34.7
175°	8.0	13.3	18.7	18.7	10.7
177.5°	8.0	10.7	10.7	10.7	5.3
180°	5.3	5.3	5.3	5.3	5.3

(END OF REPORT)