

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: P567557

Luminaire Tested: **8SNX-174HL-LN-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567557
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-174HL-LN-UNV-L850-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

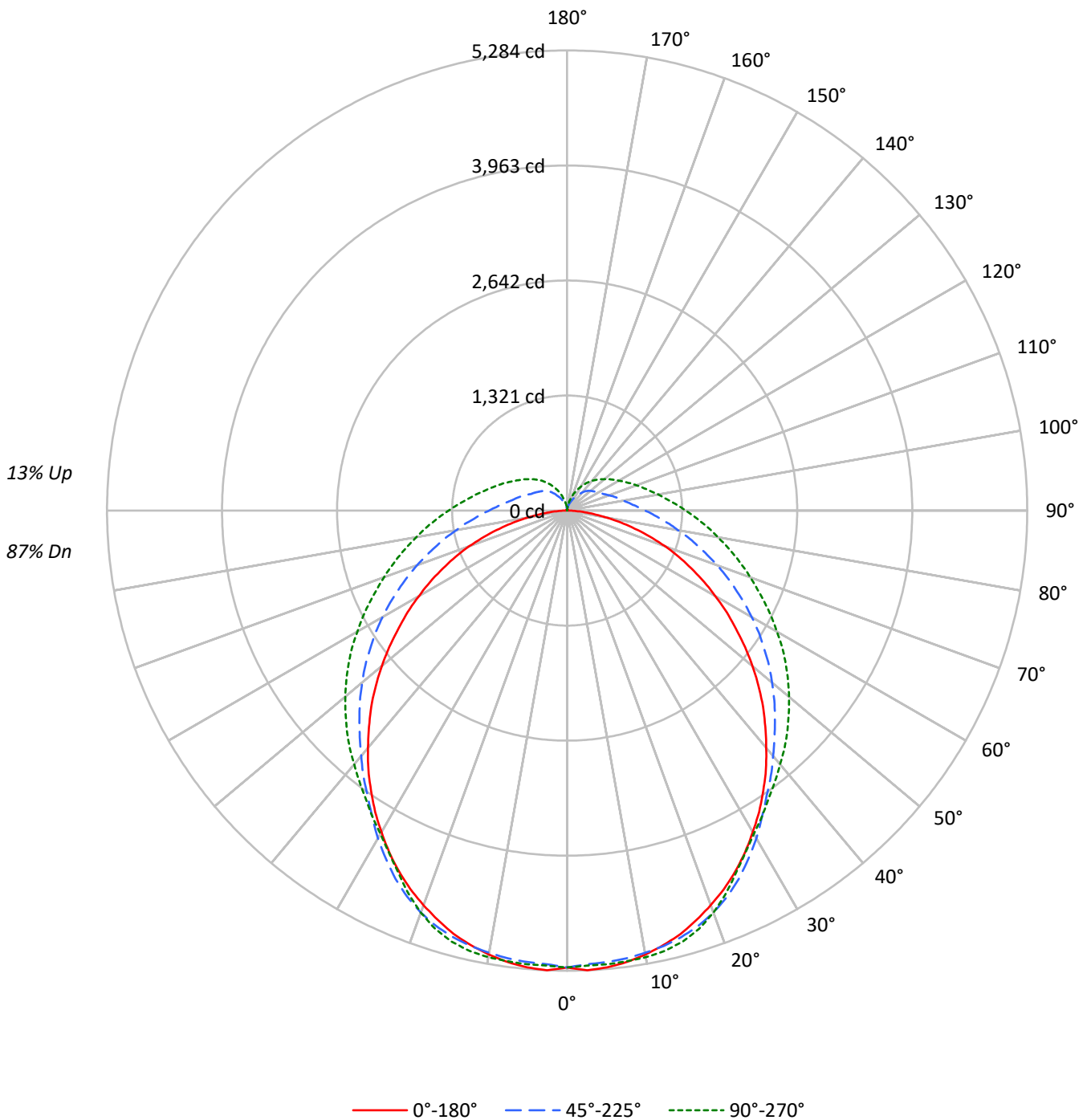
Lumens per Lamp: N/A
Luminaire Lumens: 18937.0 lumens
Efficiency: N/A
Efficacy: 152.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 124.4
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	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°	28233	28233	28233
5°	28394	26969	26697
10°	28179	25953	25465
15°	27893	24990	24222
20°	27410	23903	22639
25°	26887	22582	20783
30°	26181	21094	19233
35°	25426	19576	18076
40°	24562	18359	17140
45°	23722	17281	16333
50°	22715	16288	15518
55°	21531	15291	14722
60°	20412	14296	13889
65°	19176	13291	13125
70°	17776	12351	12435
75°	15547	11433	11866
80°	12637	10647	11384
85°	9127	10099	11108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.4	2.6
10°-20°	1432.8	7.6
20°-30°	2133.6	11.3
30°-40°	2517.5	13.3
40°-50°	2625.5	13.9
50°-60°	2467.3	13.0
60°-70°	2083.6	11.0
70°-80°	1574.3	8.3
80°-90°	1085.2	5.7
90°-100°	759.4	4.0
100°-110°	566.7	3.0
110°-120°	427.2	2.3
120°-130°	318.6	1.7
130°-140°	223.6	1.2
140°-150°	135.2	0.7
150°-160°	64.7	0.3
160°-170°	20.7	0.1
170°-180°	2.5	0.0
0°-30°	4064.7	21.5
0°-40°	6582.3	34.8
0°-60°	11675.1	61.7
0°-90°	16418.3	86.7
90°-120°	1753.4	9.3
90°-150°	2430.9	12.8
90°-180°	2519.0	13.3
0°-180°	18937.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5246	5246	5246	5246	5246	
5°	5265	5256	5204	5243	5230	500
15°	5034	5056	5069	5134	5124	1418
25°	4572	4665	4665	4623	4588	2103
35°	3926	4071	3994	4026	4036	2455
45°	3182	3339	3374	3512	3576	2450
55°	2363	2565	2761	2982	3063	2120
65°	1573	1824	2132	2411	2504	1562
75°	806	1117	1547	1872	1990	858
85°	183	575	1072	1425	1551	205
90°	3	408	896	1239	1361	13
95°	3	318	758	1085	1198	3
105°	6	228	584	848	944	6
115°	6	196	453	674	761	7
125°	10	167	382	552	623	9
135°	10	128	318	450	504	7
145°	13	93	222	344	385	7
155°	13	61	135	218	254	6
165°	16	38	71	96	128	4
175°	16	16	19	19	10	2
180°	10	10	10	10	10	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5245.9	5245.9	5245.9	5245.9	5245.9
2.5°	5284.4	5271.6	5213.8	5245.9	5229.8
5°	5265.2	5255.5	5204.2	5242.7	5229.8
7.5°	5229.8	5226.6	5188.1	5233.1	5220.2
10°	5175.3	5184.9	5156.0	5217.0	5207.4
12.5°	5111.1	5130.3	5120.7	5188.1	5178.5
15°	5034.0	5056.5	5069.3	5133.5	5123.9
17.5°	4931.3	4973.0	5001.9	5053.3	5037.2
20°	4822.1	4879.9	4912.0	4937.7	4912.0
22.5°	4703.3	4780.4	4799.6	4786.8	4761.1
25°	4571.7	4664.8	4664.8	4623.1	4587.8
27.5°	4424.0	4539.6	4507.5	4459.3	4430.4
30°	4263.5	4401.5	4347.0	4292.4	4286.0
32.5°	4103.0	4247.4	4167.2	4154.3	4164.0
35°	3926.4	4070.9	3993.8	4025.9	4035.6
37.5°	3749.8	3894.3	3842.9	3891.1	3920.0
40°	3557.2	3711.3	3679.2	3765.9	3804.4
42.5°	3367.8	3528.3	3525.1	3637.5	3695.2
45°	3181.6	3338.9	3374.2	3512.2	3576.5
47.5°	2979.3	3139.8	3226.5	3387.0	3451.3
50°	2780.3	2953.6	3072.4	3252.2	3326.0
52.5°	2574.8	2757.8	2921.5	3120.6	3197.6
55°	2362.9	2565.2	2761.0	2982.5	3062.8
57.5°	2173.5	2379.0	2610.1	2838.1	2931.2
60°	1964.8	2192.7	2446.4	2687.2	2780.3
62.5°	1775.4	2009.8	2292.3	2545.9	2645.4
65°	1573.1	1823.5	2131.7	2411.1	2504.2
67.5°	1386.9	1643.8	1980.9	2263.4	2366.1
70°	1194.3	1467.2	1833.2	2131.7	2237.7
72.5°	995.2	1284.2	1685.5	2003.3	2112.5
75°	805.8	1117.2	1547.4	1871.7	1990.5
77.5°	629.3	956.7	1422.2	1756.1	1871.7
80°	455.9	812.2	1290.6	1637.3	1756.1
82.5°	301.8	687.0	1184.7	1531.4	1656.6
85°	183.0	574.7	1072.3	1425.4	1550.7
87.5°	83.5	481.6	982.4	1332.3	1454.3
90°	3.2	407.7	895.7	1239.2	1361.2
92.5°	3.2	356.4	825.1	1159.0	1277.8
95°	3.2	317.8	757.7	1085.1	1197.5
97.5°	3.2	292.2	706.3	1014.5	1123.7
100°	3.2	266.5	654.9	950.3	1062.7
102.5°	6.4	244.0	616.4	892.5	998.5
105°	6.4	227.9	584.3	847.6	943.9
107.5°	6.4	218.3	549.0	802.6	892.5
110°	6.4	208.7	510.5	757.7	847.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.4	202.3	481.6	719.1	805.8
115°	6.4	195.8	452.7	674.2	760.9
117.5°	6.4	192.6	436.6	638.9	722.4
120°	9.6	183.0	417.4	606.8	687.0
122.5°	9.6	173.4	398.1	581.1	651.7
125°	9.6	166.9	382.0	552.2	622.8
127.5°	9.6	157.3	366.0	526.5	590.7
130°	9.6	147.7	353.2	500.8	561.8
132.5°	9.6	138.1	337.1	475.1	532.9
135°	9.6	128.4	317.8	449.5	504.0
137.5°	9.6	118.8	298.6	423.8	475.1
140°	9.6	109.2	272.9	398.1	446.3
142.5°	9.6	99.5	247.2	372.4	414.2
145°	12.8	93.1	221.5	343.5	385.3
147.5°	12.8	83.5	195.8	314.6	349.9
150°	12.8	77.1	176.6	285.7	317.8
152.5°	12.8	67.4	157.3	253.6	285.7
155°	12.8	61.0	134.8	218.3	253.6
157.5°	12.8	54.6	115.6	183.0	221.5
160°	12.8	51.4	99.5	150.9	189.4
162.5°	16.1	44.9	83.5	122.0	157.3
165°	16.1	38.5	70.6	96.3	128.4
167.5°	16.1	32.1	57.8	73.8	99.5
170°	16.1	25.7	44.9	51.4	77.1
172.5°	16.1	19.3	32.1	35.3	38.5
175°	16.1	16.1	19.3	19.3	9.6
177.5°	16.1	16.1	12.8	9.6	3.2
180°	9.6	9.6	9.6	9.6	9.6

(END OF REPORT)