

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: P567563

Luminaire Tested: **8SNX-174HL-LW-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567563
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-174HL-LW-UNV-L835-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

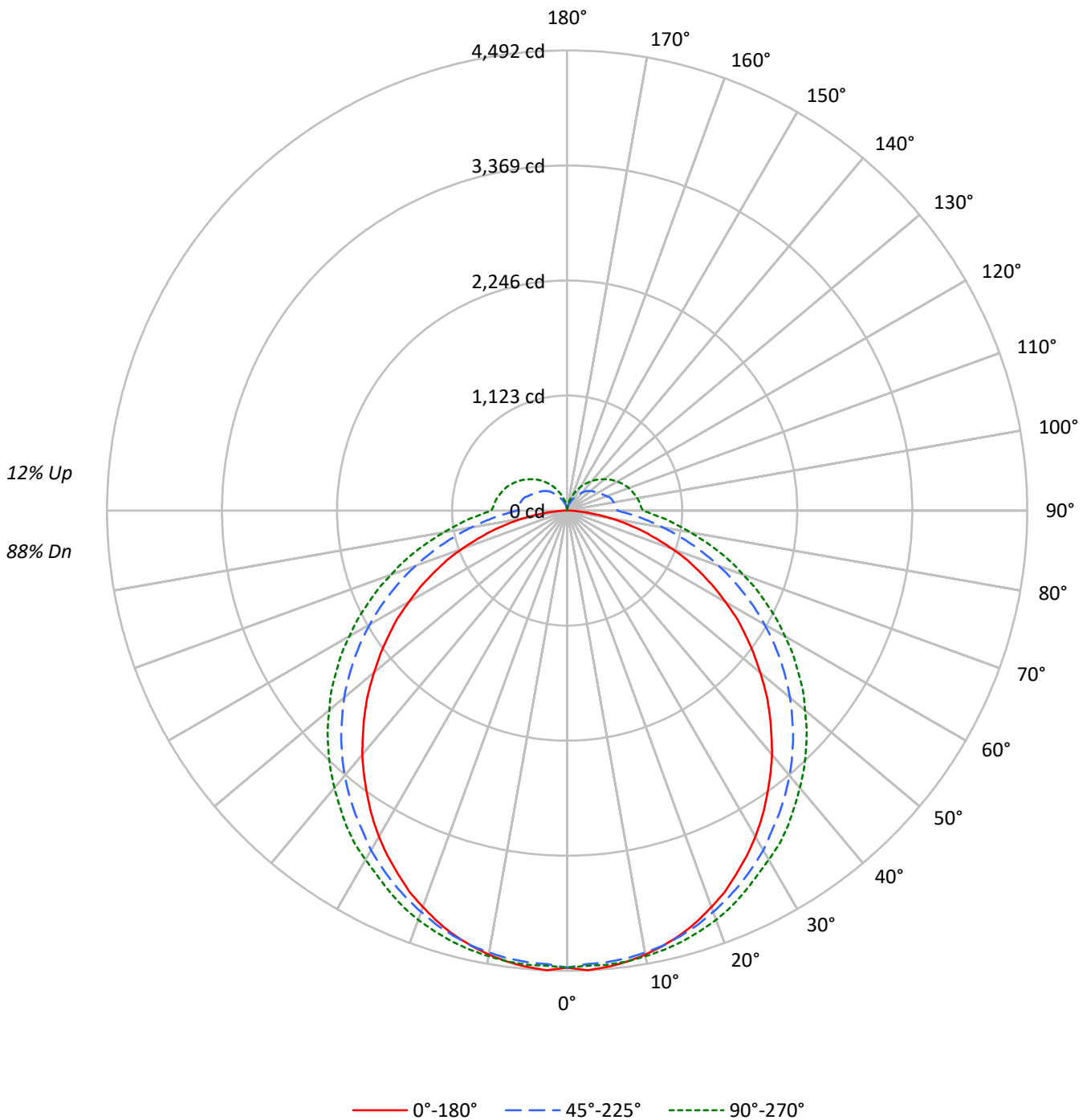
Lumens per Lamp: N/A
Luminaire Lumens: 16062.0 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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	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°	24011	24011	24011
5°	24118	22934	22718
10°	23963	22055	21602
15°	23745	21180	20583
20°	23405	20292	19599
25°	23003	19427	18590
30°	22565	18579	17662
35°	22015	17689	16830
40°	21481	16855	15924
45°	20836	15974	15061
50°	20090	15063	14142
55°	19374	14060	13234
60°	18545	13003	12256
65°	17536	11850	11245
70°	16253	10600	10149
75°	14436	9227	9101
80°	11894	7851	7899
85°	8229	6528	6896



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.5	2.6
10°-20°	1218.3	7.6
20°-30°	1853.4	11.5
30°-40°	2253.6	14.0
40°-50°	2384.3	14.8
50°-60°	2234.9	13.9
60°-70°	1838.6	11.4
70°-80°	1272.2	7.9
80°-90°	707.4	4.4
90°-100°	466.0	2.9
100°-110°	417.9	2.6
110°-120°	345.9	2.2
120°-130°	267.4	1.7
130°-140°	189.3	1.2
140°-150°	114.2	0.7
150°-160°	54.8	0.3
160°-170°	18.0	0.1
170°-180°	2.2	0.0
0°-30°	3495.3	21.8
0°-40°	5749.0	35.8
0°-60°	10368.1	64.6
0°-90°	14186.3	88.3
90°-120°	1229.8	7.7
90°-150°	1800.7	11.2
90°-180°	1876.0	11.7
0°-180°	16062.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4461	4461	4461	4461	4461	
5°	4472	4464	4426	4461	4450	425
15°	4285	4299	4296	4354	4354	1208
25°	3911	3966	4013	4101	4104	1803
35°	3400	3490	3609	3724	3757	2128
45°	2795	2940	3119	3259	3298	2154
55°	2126	2316	2539	2698	2753	1903
65°	1438	1645	1901	2088	2145	1426
75°	748	965	1249	1447	1527	794
85°	165	410	693	886	963	190
90°	3	231	490	674	740	11
95°	3	220	476	652	715	2
105°	3	190	446	613	668	3
115°	6	165	377	545	605	4
125°	6	140	322	465	523	5
135°	6	110	270	382	429	4
145°	6	80	187	289	325	3
155°	8	55	116	184	214	4
165°	8	36	63	85	110	2
175°	8	14	19	19	11	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4461.4	4461.4	4461.4	4461.4	4461.4
2.5°	4491.7	4477.9	4431.1	4461.4	4447.6
5°	4472.4	4464.2	4425.6	4461.4	4450.4
7.5°	4442.1	4439.4	4409.1	4450.4	4439.4
10°	4400.9	4406.4	4381.6	4425.6	4417.4
12.5°	4348.6	4356.9	4345.9	4395.4	4389.9
15°	4285.4	4299.1	4296.4	4354.1	4354.1
17.5°	4208.4	4227.6	4238.6	4304.6	4304.6
20°	4117.6	4147.8	4169.8	4241.4	4252.4
22.5°	4026.8	4062.6	4095.6	4169.8	4186.3
25°	3911.3	3966.3	4013.1	4101.1	4103.8
27.5°	3798.5	3859.0	3922.3	4007.6	4015.8
30°	3674.7	3751.8	3828.8	3911.3	3936.0
32.5°	3542.7	3628.0	3713.3	3823.3	3856.3
35°	3399.7	3490.5	3608.7	3724.3	3757.3
37.5°	3256.7	3358.4	3496.0	3614.2	3644.5
40°	3110.9	3223.7	3377.7	3498.7	3534.5
42.5°	2948.6	3086.1	3251.2	3380.4	3421.7
45°	2794.6	2940.3	3119.1	3259.4	3297.9
47.5°	2632.3	2786.3	2978.9	3127.4	3171.4
50°	2459.0	2635.0	2841.3	2989.9	3031.1
52.5°	2296.7	2475.5	2692.8	2846.8	2904.6
55°	2126.2	2316.0	2538.8	2698.3	2753.3
57.5°	1966.6	2148.2	2387.5	2547.0	2615.8
60°	1785.1	1985.9	2225.2	2398.5	2453.5
62.5°	1614.6	1818.1	2065.7	2244.5	2307.7
65°	1438.5	1644.8	1900.6	2087.7	2145.4
67.5°	1273.5	1477.0	1738.4	1922.6	1996.9
70°	1092.0	1306.5	1573.3	1763.1	1826.4
72.5°	913.2	1136.0	1408.3	1611.8	1683.3
75°	748.2	965.4	1248.8	1446.8	1526.6
77.5°	588.6	808.7	1094.7	1298.3	1367.0
80°	429.1	660.1	951.7	1152.5	1218.5
82.5°	283.3	525.4	814.2	1015.0	1086.5
85°	165.0	409.8	693.1	885.7	962.7
87.5°	71.5	310.8	580.4	770.2	833.4
90°	2.8	231.0	489.6	673.9	739.9
92.5°	2.8	225.5	478.6	660.1	723.4
95°	2.8	220.0	475.8	651.9	715.1
97.5°	2.8	217.3	470.3	646.4	706.9
100°	2.8	209.0	462.1	635.4	695.9
102.5°	2.8	198.0	453.8	624.4	682.1
105°	2.8	189.8	445.6	613.4	668.4
107.5°	2.8	181.5	431.8	599.6	654.6
110°	2.8	173.3	409.8	585.9	640.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	170.5	393.3	566.6	624.4
115°	5.5	165.0	376.8	544.6	605.1
117.5°	5.5	162.3	363.1	522.6	585.9
120°	5.5	154.0	349.3	503.4	563.9
122.5°	5.5	145.8	335.6	484.1	544.6
125°	5.5	140.3	321.8	464.8	522.6
127.5°	5.5	132.0	310.8	445.6	497.9
130°	5.5	126.5	297.1	423.6	475.8
132.5°	5.5	118.3	283.3	401.6	451.1
135°	5.5	110.0	269.6	382.3	429.1
137.5°	5.5	99.0	253.1	360.3	404.3
140°	5.5	90.8	231.0	338.3	379.6
142.5°	5.5	85.3	209.0	313.6	352.1
145°	5.5	79.8	187.0	288.8	324.6
147.5°	5.5	74.3	167.8	264.1	297.1
150°	5.5	66.0	148.5	242.0	269.6
152.5°	8.3	60.5	132.0	214.5	242.0
155°	8.3	55.0	115.5	184.3	214.5
157.5°	8.3	49.5	99.0	154.0	187.0
160°	8.3	44.0	85.3	126.5	159.5
162.5°	8.3	41.3	74.3	104.5	134.8
165°	8.3	35.8	63.3	85.3	110.0
167.5°	8.3	27.5	52.3	66.0	90.8
170°	8.3	22.0	41.3	46.8	68.8
172.5°	8.3	16.5	30.3	33.0	35.8
175°	8.3	13.8	19.3	19.3	11.0
177.5°	8.3	11.0	11.0	11.0	5.5
180°	5.5	5.5	5.5	5.5	5.5

(END OF REPORT)