

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: P567555

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567555
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-L835-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

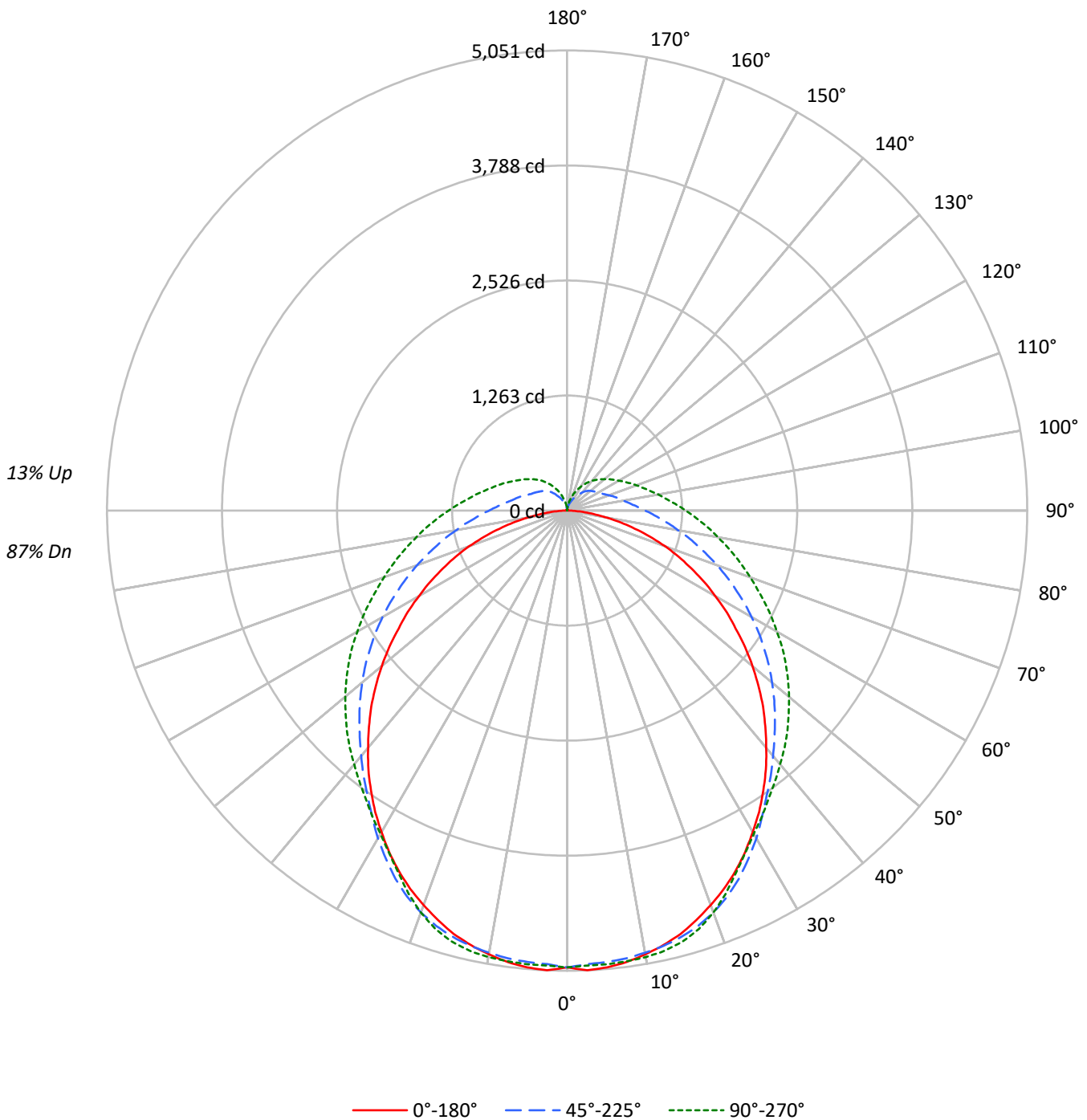
Lumens per Lamp: N/A
Luminaire Lumens: 18099.0 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 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	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°	26984	26984	26984
5°	27137	25775	25516
10°	26933	24804	24338
15°	26658	23884	23151
20°	26197	22845	21637
25°	25697	21583	19863
30°	25022	20160	18381
35°	24301	18710	17276
40°	23475	17547	16381
45°	22672	16516	15610
50°	21709	15568	14832
55°	20578	14614	14070
60°	19510	13663	13274
65°	18328	12703	12544
70°	16988	11804	11885
75°	14860	10928	11341
80°	12077	10176	10881
85°	8723	9652	10616



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.3	2.6
10°-20°	1369.4	7.6
20°-30°	2039.2	11.3
30°-40°	2406.1	13.3
40°-50°	2509.3	13.9
50°-60°	2358.1	13.0
60°-70°	1991.4	11.0
70°-80°	1504.7	8.3
80°-90°	1037.2	5.7
90°-100°	725.8	4.0
100°-110°	541.6	3.0
110°-120°	408.3	2.3
120°-130°	304.5	1.7
130°-140°	213.7	1.2
140°-150°	129.2	0.7
150°-160°	61.8	0.3
160°-170°	19.8	0.1
170°-180°	2.4	0.0
0°-30°	3884.9	21.5
0°-40°	6291.0	34.8
0°-60°	11158.4	61.7
0°-90°	15691.7	86.7
90°-120°	1675.8	9.3
90°-150°	2323.3	12.8
90°-180°	2407.0	13.3
0°-180°	18099.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5014	5014	5014	5014	5014	
5°	5032	5023	4974	5011	4998	478
15°	4811	4833	4845	4906	4897	1355
25°	4369	4458	4458	4418	4385	2010
35°	3753	3891	3817	3848	3857	2347
45°	3041	3191	3225	3357	3418	2342
55°	2258	2452	2639	2850	2927	2026
65°	1504	1743	2037	2304	2393	1493
75°	770	1068	1479	1789	1902	820
85°	175	549	1025	1362	1482	196
90°	3	390	856	1184	1301	12
95°	3	304	724	1037	1144	3
105°	6	218	558	810	902	6
115°	6	187	433	644	727	6
125°	9	160	365	528	595	8
135°	9	123	304	430	482	7
145°	12	89	212	328	368	7
155°	12	58	129	209	242	6
165°	15	37	68	92	123	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°	5013.8	5013.8	5013.8	5013.8	5013.8
2.5°	5050.6	5038.3	4983.1	5013.8	4998.4
5°	5032.2	5023.0	4973.9	5010.7	4998.4
7.5°	4998.4	4995.3	4958.5	5001.5	4989.2
10°	4946.3	4955.5	4927.8	4986.1	4976.9
12.5°	4884.9	4903.3	4894.1	4958.5	4949.3
15°	4811.2	4832.7	4845.0	4906.4	4897.2
17.5°	4713.1	4752.9	4780.6	4829.7	4814.3
20°	4608.7	4664.0	4694.6	4719.2	4694.6
22.5°	4495.2	4568.8	4587.3	4575.0	4550.4
25°	4369.4	4458.4	4458.4	4418.5	4384.7
27.5°	4228.2	4338.7	4308.0	4262.0	4234.4
30°	4074.8	4206.8	4154.6	4102.4	4096.3
32.5°	3921.4	4059.5	3982.8	3970.5	3979.7
35°	3752.6	3890.7	3817.1	3847.8	3857.0
37.5°	3583.9	3722.0	3672.9	3718.9	3746.5
40°	3399.8	3547.1	3516.4	3599.2	3636.0
42.5°	3218.7	3372.2	3369.1	3476.5	3531.7
45°	3040.8	3191.1	3224.9	3356.8	3418.2
47.5°	2847.5	3000.9	3083.7	3237.2	3298.5
50°	2657.2	2822.9	2936.5	3108.3	3178.9
52.5°	2460.9	2635.8	2792.2	2982.5	3056.1
55°	2258.3	2451.6	2638.8	2850.5	2927.2
57.5°	2077.3	2273.7	2494.6	2712.5	2801.4
60°	1877.9	2095.7	2338.1	2568.2	2657.2
62.5°	1696.8	1920.8	2190.8	2433.2	2528.4
65°	1503.5	1742.8	2037.4	2304.4	2393.3
67.5°	1325.5	1571.0	1893.2	2163.2	2261.4
70°	1141.4	1402.3	1752.1	2037.4	2138.7
72.5°	951.2	1227.4	1610.9	1914.7	2019.0
75°	770.2	1067.8	1479.0	1788.9	1902.4
77.5°	601.4	914.4	1359.3	1678.4	1788.9
80°	435.7	776.3	1233.5	1564.9	1678.4
82.5°	288.4	656.6	1132.2	1463.6	1583.3
85°	174.9	549.2	1024.8	1362.4	1482.0
87.5°	79.8	460.3	938.9	1273.4	1390.0
90°	3.1	389.7	856.1	1184.4	1301.0
92.5°	3.1	340.6	788.6	1107.7	1221.2
95°	3.1	303.8	724.1	1037.1	1144.5
97.5°	3.1	279.2	675.0	969.6	1073.9
100°	3.1	254.7	626.0	908.2	1015.6
102.5°	6.1	233.2	589.1	853.0	954.3
105°	6.1	217.9	558.4	810.1	902.1
107.5°	6.1	208.7	524.7	767.1	853.0
110°	6.1	199.4	487.9	724.1	810.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.1	193.3	460.3	687.3	770.2
115°	6.1	187.2	432.6	644.4	727.2
117.5°	6.1	184.1	417.3	610.6	690.4
120°	9.2	174.9	398.9	579.9	656.6
122.5°	9.2	165.7	380.5	555.4	622.9
125°	9.2	159.6	365.1	527.8	595.3
127.5°	9.2	150.4	349.8	503.2	564.6
130°	9.2	141.1	337.5	478.7	537.0
132.5°	9.2	131.9	322.2	454.1	509.4
135°	9.2	122.7	303.8	429.6	481.7
137.5°	9.2	113.5	285.4	405.0	454.1
140°	9.2	104.3	260.8	380.5	426.5
142.5°	9.2	95.1	236.3	355.9	395.8
145°	12.3	89.0	211.7	328.3	368.2
147.5°	12.3	79.8	187.2	300.7	334.5
150°	12.3	73.6	168.8	273.1	303.8
152.5°	12.3	64.4	150.4	242.4	273.1
155°	12.3	58.3	128.9	208.7	242.4
157.5°	12.3	52.2	110.5	174.9	211.7
160°	12.3	49.1	95.1	144.2	181.0
162.5°	15.3	43.0	79.8	116.6	150.4
165°	15.3	36.8	67.5	92.1	122.7
167.5°	15.3	30.7	55.2	70.6	95.1
170°	15.3	24.5	43.0	49.1	73.6
172.5°	15.3	18.4	30.7	33.8	36.8
175°	15.3	15.3	18.4	18.4	9.2
177.5°	15.3	15.3	12.3	9.2	3.1
180°	9.2	9.2	9.2	9.2	9.2

(END OF REPORT)