

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: P567571

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567571
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-SLW-UNV-L835-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

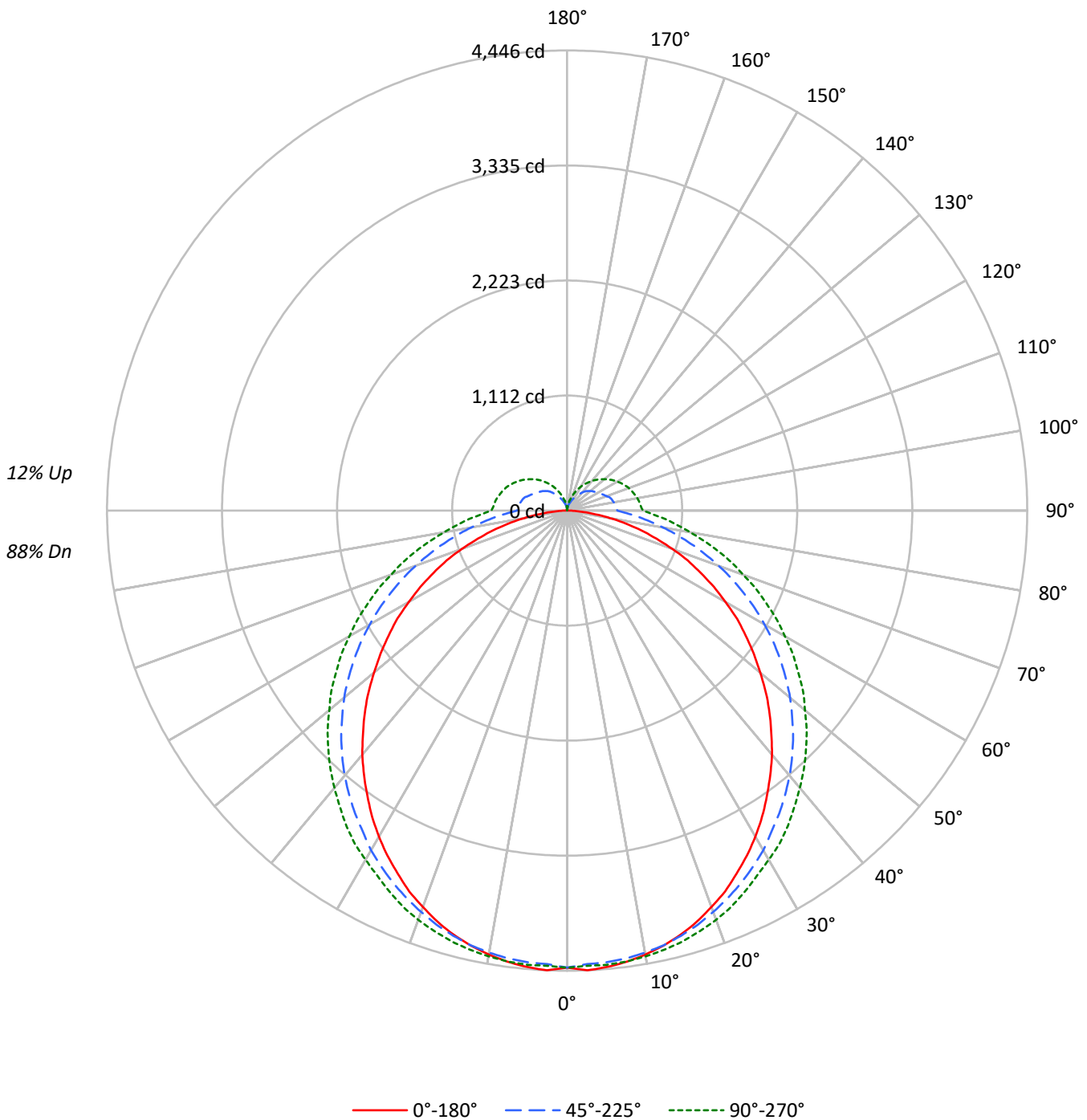
Lumens per Lamp: N/A
Luminaire Lumens: 15898.0 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 124.4
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P567571

CATALOG NUMBER: 8SNX-174HL-SLW-UNV-L835-CD

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°	23766	23766	23766
5°	23894	23175	23126
10°	23762	22731	22573
15°	23568	22251	22051
20°	23254	21724	21507
25°	22879	21195	20887
30°	22469	20663	20317
35°	21949	20066	19825
40°	21446	19522	19223
45°	20837	18918	18652
50°	20130	18274	17999
55°	19459	17520	17346
60°	18683	16703	16596
65°	17738	15770	15796
70°	16536	14717	14876
75°	14824	13502	14033
80°	12431	12303	12967
85°	9015	11246	12272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.2	2.6
10°-20°	1205.9	7.6
20°-30°	1834.5	11.5
30°-40°	2230.6	14.0
40°-50°	2359.9	14.8
50°-60°	2212.1	13.9
60°-70°	1819.8	11.4
70°-80°	1259.2	7.9
80°-90°	700.2	4.4
90°-100°	461.3	2.9
100°-110°	413.6	2.6
110°-120°	342.4	2.2
120°-130°	264.7	1.7
130°-140°	187.4	1.2
140°-150°	113.0	0.7
150°-160°	54.3	0.3
160°-170°	17.8	0.1
170°-180°	2.2	0.0
0°-30°	3459.6	21.8
0°-40°	5690.2	35.8
0°-60°	10262.3	64.6
0°-90°	14041.4	88.3
90°-120°	1217.3	7.7
90°-150°	1782.3	11.2
90°-180°	1857.0	11.7
0°-180°	15898.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4416	4416	4416	4416	4416	
5°	4427	4419	4380	4416	4405	420
15°	4242	4255	4252	4310	4310	1196
25°	3871	3926	3972	4059	4062	1784
35°	3365	3455	3572	3686	3719	2106
45°	2766	2910	3087	3226	3264	2132
55°	2104	2292	2513	2671	2725	1884
65°	1424	1628	1881	2066	2124	1412
75°	740	956	1236	1432	1511	786
85°	163	406	686	877	953	188
90°	3	229	485	667	732	11
95°	3	218	471	645	708	2
105°	3	188	441	607	662	3
115°	5	163	373	539	599	4
125°	5	139	318	460	517	5
135°	5	109	267	378	425	4
145°	5	79	185	286	321	3
155°	8	54	114	182	212	4
165°	8	35	63	84	109	2
175°	8	14	19	19	11	1
180°	5	5	5	5	5	



TEST NUMBER: P567571

CATALOG NUMBER: 8SNX-174HL-SLW-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4415.8	4415.8	4415.8	4415.8	4415.8
2.5°	4445.8	4432.2	4385.9	4415.8	4402.2
5°	4426.7	4418.6	4380.5	4415.8	4405.0
7.5°	4396.8	4394.1	4364.1	4405.0	4394.1
10°	4356.0	4361.4	4336.9	4380.5	4372.3
12.5°	4304.2	4312.4	4301.5	4350.5	4345.1
15°	4241.6	4255.2	4252.5	4309.7	4309.7
17.5°	4165.4	4184.4	4195.3	4260.7	4260.7
20°	4075.5	4105.5	4127.3	4198.1	4208.9
22.5°	3985.7	4021.1	4053.8	4127.3	4143.6
25°	3871.4	3925.8	3972.1	4059.2	4061.9
27.5°	3759.7	3819.6	3882.2	3966.6	3974.8
30°	3637.2	3713.5	3789.7	3871.4	3895.9
32.5°	3506.5	3590.9	3675.3	3784.2	3816.9
35°	3365.0	3454.8	3571.9	3686.2	3718.9
37.5°	3223.4	3324.1	3460.3	3577.3	3607.3
40°	3079.1	3190.7	3343.2	3463.0	3498.4
42.5°	2918.5	3054.6	3218.0	3345.9	3386.8
45°	2766.0	2910.3	3087.3	3226.1	3264.2
47.5°	2605.4	2757.9	2948.4	3095.5	3139.0
50°	2433.9	2608.1	2812.3	2959.3	3000.2
52.5°	2273.3	2450.2	2665.3	2817.8	2874.9
55°	2104.5	2292.3	2512.8	2670.7	2725.2
57.5°	1946.6	2126.3	2363.1	2521.0	2589.1
60°	1766.9	1965.6	2202.5	2374.0	2428.4
62.5°	1598.1	1799.6	2044.6	2221.5	2284.2
65°	1423.9	1628.0	1881.2	2066.4	2123.5
67.5°	1260.5	1462.0	1720.6	1903.0	1976.5
70°	1080.8	1293.2	1557.3	1745.1	1807.7
72.5°	903.9	1124.4	1393.9	1595.4	1666.2
75°	740.5	955.6	1236.0	1432.0	1511.0
77.5°	582.6	800.4	1083.5	1285.0	1353.1
80°	424.7	653.4	942.0	1140.7	1206.1
82.5°	280.4	520.0	805.9	1004.6	1075.4
85°	163.3	405.6	686.1	876.6	952.9
87.5°	70.8	307.6	574.4	762.3	824.9
90°	2.7	228.7	484.6	667.0	732.3
92.5°	2.7	223.2	473.7	653.4	716.0
95°	2.7	217.8	471.0	645.2	707.8
97.5°	2.7	215.1	465.5	639.8	699.7
100°	2.7	206.9	457.4	628.9	688.8
102.5°	2.7	196.0	449.2	618.0	675.2
105°	2.7	187.9	441.0	607.1	661.6
107.5°	2.7	179.7	427.4	593.5	647.9
110°	2.7	171.5	405.6	579.9	634.3



TEST NUMBER: P567571

CATALOG NUMBER: 8SNX-174HL-SLW-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	168.8	389.3	560.8	618.0
115°	5.4	163.3	373.0	539.0	598.9
117.5°	5.4	160.6	359.4	517.3	579.9
120°	5.4	152.5	345.8	498.2	558.1
122.5°	5.4	144.3	332.1	479.2	539.0
125°	5.4	138.8	318.5	460.1	517.3
127.5°	5.4	130.7	307.6	441.0	492.8
130°	5.4	125.2	294.0	419.3	471.0
132.5°	5.4	117.1	280.4	397.5	446.5
135°	5.4	108.9	266.8	378.4	424.7
137.5°	5.4	98.0	250.5	356.6	400.2
140°	5.4	89.8	228.7	334.9	375.7
142.5°	5.4	84.4	206.9	310.4	348.5
145°	5.4	79.0	185.1	285.9	321.3
147.5°	5.4	73.5	166.1	261.4	294.0
150°	5.4	65.3	147.0	239.6	266.8
152.5°	8.2	59.9	130.7	212.4	239.6
155°	8.2	54.4	114.3	182.4	212.4
157.5°	8.2	49.0	98.0	152.5	185.1
160°	8.2	43.6	84.4	125.2	157.9
162.5°	8.2	40.8	73.5	103.5	133.4
165°	8.2	35.4	62.6	84.4	108.9
167.5°	8.2	27.2	51.7	65.3	89.8
170°	8.2	21.8	40.8	46.3	68.1
172.5°	8.2	16.3	29.9	32.7	35.4
175°	8.2	13.6	19.1	19.1	10.9
177.5°	8.2	10.9	10.9	10.9	5.4
180°	5.4	5.4	5.4	5.4	5.4

(END OF REPORT)