

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: P567572

Luminaire Tested: **8SNX-174HL-SLW-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567572
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-L840-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

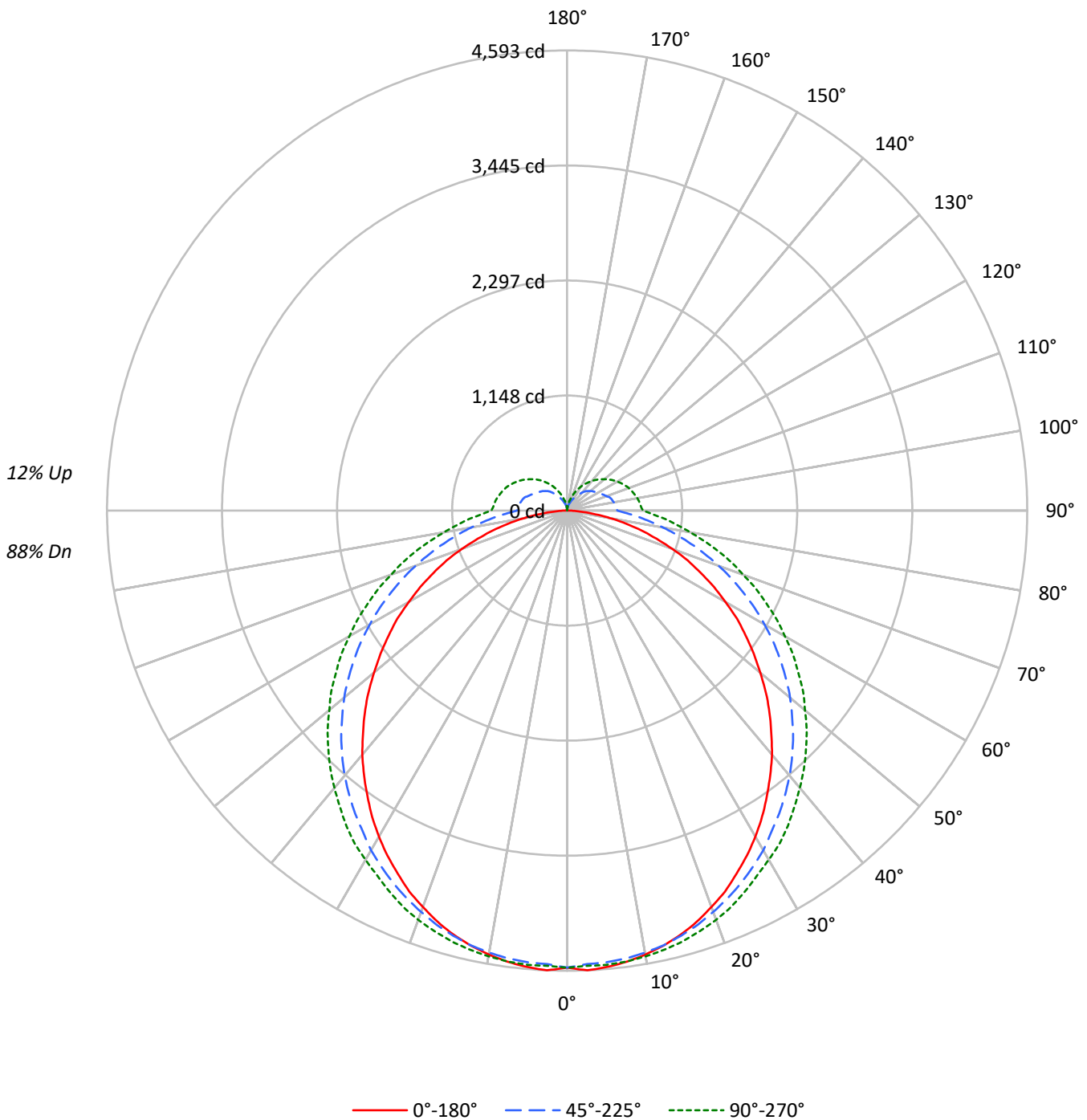
Lumens per Lamp: N/A
Luminaire Lumens: 16424.0 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 124.4
Input Voltage (V): NR
Input Current (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°	24552	24552	24552
5°	24684	23941	23891
10°	24548	23483	23320
15°	24347	22987	22781
20°	24024	22443	22219
25°	23635	21896	21578
30°	23213	21347	20989
35°	22675	20730	20481
40°	22156	20168	19859
45°	21526	19544	19269
50°	20796	18879	18594
55°	20102	18100	17920
60°	19301	17256	17145
65°	18325	16292	16319
70°	17084	15203	15368
75°	15315	13949	14497
80°	12844	12710	13396
85°	9319	11619	12678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.1	2.6
10°-20°	1245.8	7.6
20°-30°	1895.2	11.5
30°-40°	2304.4	14.0
40°-50°	2438.0	14.8
50°-60°	2285.3	13.9
60°-70°	1880.0	11.4
70°-80°	1300.8	7.9
80°-90°	723.3	4.4
90°-100°	476.5	2.9
100°-110°	427.3	2.6
110°-120°	353.7	2.2
120°-130°	273.4	1.7
130°-140°	193.6	1.2
140°-150°	116.8	0.7
150°-160°	56.1	0.3
160°-170°	18.4	0.1
170°-180°	2.2	0.0
0°-30°	3574.1	21.8
0°-40°	5878.5	35.8
0°-60°	10601.8	64.6
0°-90°	14506.0	88.3
90°-120°	1257.6	7.7
90°-150°	1841.3	11.2
90°-180°	1918.0	11.7
0°-180°	16424.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4562	4562	4562	4562	4562	
5°	4573	4565	4525	4562	4551	434
15°	4382	4396	4393	4452	4452	1235
25°	3999	4056	4104	4194	4196	1844
35°	3476	3569	3690	3808	3842	2176
45°	2858	3007	3189	3333	3372	2203
55°	2174	2368	2596	2759	2815	1946
65°	1471	1682	1944	2135	2194	1458
75°	765	987	1277	1479	1561	812
85°	169	419	709	906	984	194
90°	3	236	501	689	757	11
95°	3	225	487	667	731	2
105°	3	194	456	627	683	3
115°	6	169	385	557	619	4
125°	6	143	329	475	534	5
135°	6	112	276	391	439	4
145°	6	82	191	295	332	4
155°	8	56	118	188	219	4
165°	8	37	65	87	112	2
175°	8	14	20	20	11	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4562.0	4562.0	4562.0	4562.0	4562.0
2.5°	4592.9	4578.8	4531.0	4562.0	4547.9
5°	4573.2	4564.8	4525.4	4562.0	4550.7
7.5°	4542.3	4539.5	4508.5	4550.7	4539.5
10°	4500.1	4505.7	4480.4	4525.4	4517.0
12.5°	4446.6	4455.1	4443.8	4494.5	4488.8
15°	4381.9	4396.0	4393.2	4452.3	4452.3
17.5°	4303.2	4322.9	4334.1	4401.6	4401.6
20°	4210.4	4241.3	4263.8	4336.9	4348.2
22.5°	4117.6	4154.1	4187.9	4263.8	4280.7
25°	3999.4	4055.7	4103.5	4193.5	4196.3
27.5°	3884.1	3946.0	4010.7	4097.9	4106.3
30°	3757.6	3836.3	3915.1	3999.4	4024.8
32.5°	3622.6	3709.8	3796.9	3909.4	3943.2
35°	3476.3	3569.1	3690.1	3808.2	3841.9
37.5°	3330.1	3434.1	3574.7	3695.7	3726.6
40°	3181.0	3296.3	3453.8	3577.6	3614.1
42.5°	3015.1	3155.7	3324.4	3456.6	3498.8
45°	2857.5	3006.6	3189.4	3332.9	3372.2
47.5°	2691.6	2849.1	3046.0	3197.9	3242.9
50°	2514.4	2694.4	2905.4	3057.2	3099.4
52.5°	2348.5	2531.3	2753.5	2911.0	2970.1
55°	2174.1	2368.2	2596.0	2759.1	2815.4
57.5°	2011.0	2196.6	2441.3	2604.4	2674.7
60°	1825.3	2030.7	2275.4	2452.5	2508.8
62.5°	1651.0	1859.1	2112.2	2295.0	2359.7
65°	1471.0	1681.9	1943.5	2134.7	2193.8
67.5°	1302.2	1510.3	1777.5	1966.0	2041.9
70°	1116.6	1336.0	1608.8	1802.8	1867.5
72.5°	933.8	1161.6	1440.0	1648.2	1721.3
75°	765.0	987.2	1276.9	1479.4	1561.0
77.5°	601.9	826.9	1119.4	1327.5	1397.8
80°	438.8	675.0	973.1	1178.5	1246.0
82.5°	289.7	537.2	832.5	1037.8	1111.0
85°	168.8	419.1	708.8	905.6	984.4
87.5°	73.1	317.8	593.4	787.5	852.2
90°	2.8	236.3	500.6	689.1	756.6
92.5°	2.8	230.6	489.4	675.0	739.7
95°	2.8	225.0	486.6	666.6	731.3
97.5°	2.8	222.2	480.9	660.9	722.8
100°	2.8	213.8	472.5	649.7	711.6
102.5°	2.8	202.5	464.1	638.4	697.5
105°	2.8	194.1	455.6	627.2	683.4
107.5°	2.8	185.6	441.6	613.1	669.4
110°	2.8	177.2	419.1	599.1	655.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	174.4	402.2	579.4	638.4
115°	5.6	168.8	385.3	556.9	618.8
117.5°	5.6	165.9	371.3	534.4	599.1
120°	5.6	157.5	357.2	514.7	576.6
122.5°	5.6	149.1	343.1	495.0	556.9
125°	5.6	143.4	329.1	475.3	534.4
127.5°	5.6	135.0	317.8	455.6	509.1
130°	5.6	129.4	303.8	433.1	486.6
132.5°	5.6	120.9	289.7	410.6	461.3
135°	5.6	112.5	275.6	390.9	438.8
137.5°	5.6	101.3	258.8	368.4	413.4
140°	5.6	92.8	236.3	345.9	388.1
142.5°	5.6	87.2	213.8	320.6	360.0
145°	5.6	81.6	191.3	295.3	331.9
147.5°	5.6	75.9	171.6	270.0	303.8
150°	5.6	67.5	151.9	247.5	275.6
152.5°	8.4	61.9	135.0	219.4	247.5
155°	8.4	56.3	118.1	188.4	219.4
157.5°	8.4	50.6	101.3	157.5	191.3
160°	8.4	45.0	87.2	129.4	163.1
162.5°	8.4	42.2	75.9	106.9	137.8
165°	8.4	36.6	64.7	87.2	112.5
167.5°	8.4	28.1	53.4	67.5	92.8
170°	8.4	22.5	42.2	47.8	70.3
172.5°	8.4	16.9	30.9	33.8	36.6
175°	8.4	14.1	19.7	19.7	11.3
177.5°	8.4	11.3	11.3	11.3	5.6
180°	5.6	5.6	5.6	5.6	5.6

(END OF REPORT)