

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: P567580

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-17)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-174HL-UNV-L840-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

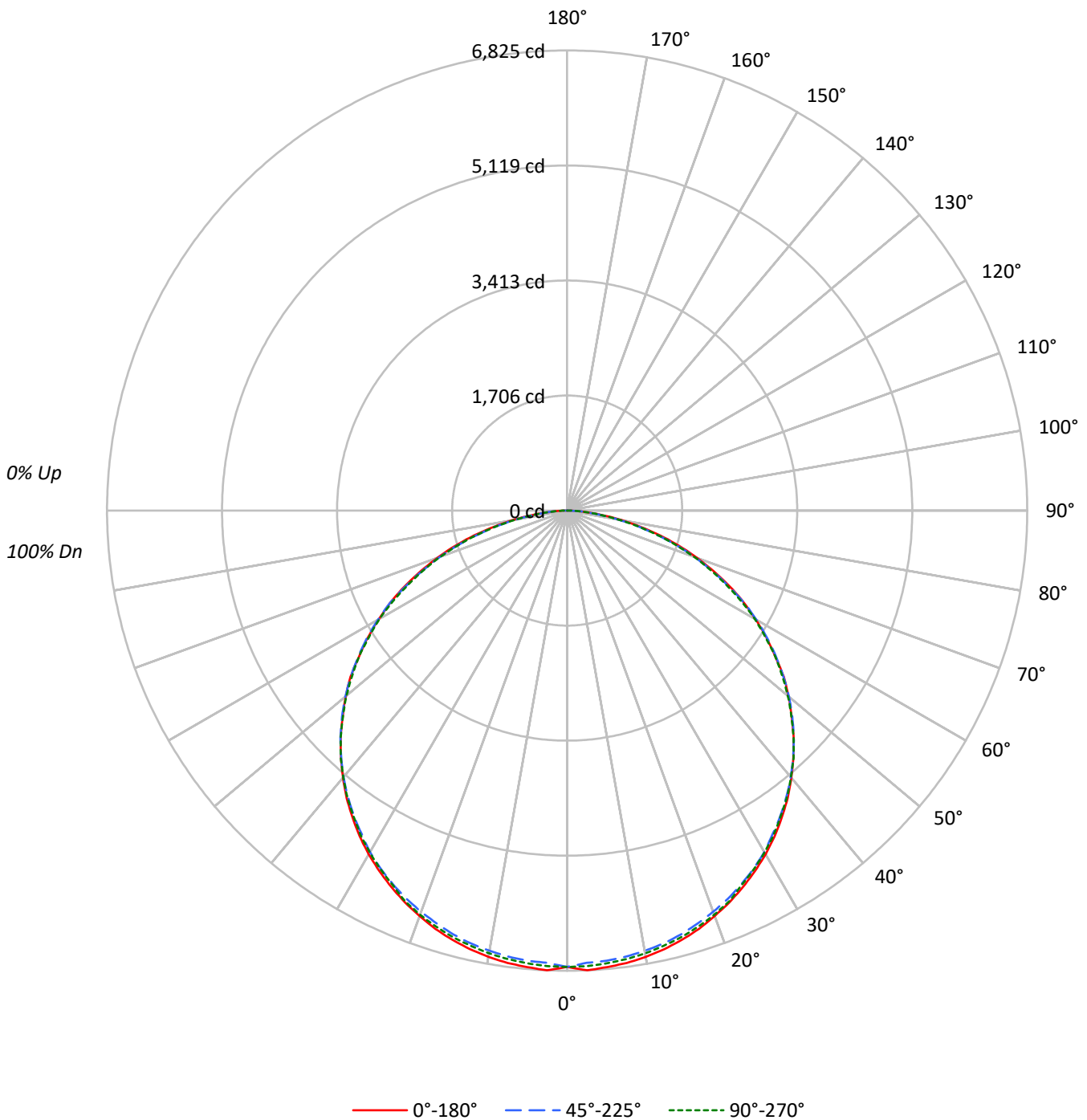
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20258.0 lumens
Efficiency: N/A
Efficacy: 162.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 8' x H: 0')
CIE Type: 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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	99	95	106	101	98	94	97	94	91	93	91	88	90	88	86	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36422	36422	36422
5°	36716	36205	36422
10°	36734	36233	36437
15°	36718	36271	36479
20°	36644	36267	36529
25°	36599	36310	36378
30°	36575	36344	36379
35°	36485	36259	36316
40°	36339	36258	36278
45°	36141	36207	36141
50°	35897	35969	35777
55°	35338	35526	35338
60°	34743	34897	34588
65°	33882	33481	33117
70°	32268	31547	31456
75°	29777	28347	28467
80°	25477	23877	24321
85°	18921	18569	17334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.2	3.2
10°-20°	1850.5	9.1
20°-30°	2833.0	14.0
30°-40°	3465.5	17.1
40°-50°	3665.4	18.1
50°-60°	3377.3	16.7
60°-70°	2599.4	12.8
70°-80°	1460.4	7.2
80°-90°	364.3	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5325.7	26.3
0°-40°	8791.2	43.4
0°-60°	15833.9	78.2
0°-90°	20258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20258.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6768	6768	6768	6768	6768	
5°	6796	6776	6702	6762	6742	646
15°	6590	6573	6510	6567	6547	1860
25°	6163	6158	6114	6158	6126	2843
35°	5553	5545	5519	5545	5527	3475
45°	4748	4763	4757	4746	4748	3662
55°	3766	3800	3786	3775	3766	3373
65°	2661	2666	2629	2592	2600	2625
75°	1432	1409	1363	1343	1369	1508
85°	306	301	301	292	281	378
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6767.5	6767.5	6767.5	6767.5	6767.5
2.5°	6824.8	6787.6	6713.1	6779.0	6761.8
5°	6796.1	6776.1	6701.6	6761.8	6741.7
7.5°	6767.5	6744.6	6673.0	6738.9	6710.2
10°	6721.7	6701.6	6630.0	6693.0	6667.3
12.5°	6661.5	6644.4	6578.5	6638.6	6612.9
15°	6589.9	6572.8	6509.8	6567.0	6547.0
17.5°	6504.0	6484.0	6423.8	6484.0	6469.7
20°	6398.1	6386.6	6332.2	6386.6	6378.0
22.5°	6289.2	6274.9	6231.9	6272.0	6274.9
25°	6163.2	6157.5	6114.5	6157.5	6126.0
27.5°	6031.5	6031.5	5988.5	6017.2	5997.1
30°	5885.4	5882.5	5848.2	5862.5	5853.9
32.5°	5727.9	5725.0	5679.2	5716.4	5702.1
35°	5553.2	5544.6	5518.8	5544.6	5527.4
37.5°	5372.8	5364.2	5344.1	5358.4	5355.6
40°	5172.3	5172.3	5160.8	5172.3	5163.7
42.5°	4966.1	4974.7	4960.4	4971.8	4971.8
45°	4748.4	4762.7	4757.0	4745.6	4748.4
47.5°	4516.4	4542.2	4527.9	4525.0	4510.7
50°	4287.3	4310.2	4295.9	4281.6	4273.0
52.5°	4049.6	4061.1	4043.9	4038.2	4018.1
55°	3766.1	3800.5	3786.1	3774.7	3766.1
57.5°	3505.5	3531.2	3519.8	3496.9	3482.6
60°	3227.7	3247.7	3242.0	3216.2	3213.3
62.5°	2955.6	2961.3	2955.6	2909.8	2912.6
65°	2660.6	2666.3	2629.1	2591.9	2600.5
67.5°	2351.3	2368.5	2316.9	2262.5	2299.7
70°	2050.6	2044.9	2004.8	1944.6	1999.0
72.5°	1741.3	1735.6	1689.7	1646.8	1684.0
75°	1432.0	1409.1	1363.2	1343.2	1369.0
77.5°	1111.2	1085.4	1065.4	1051.1	1062.5
80°	822.0	787.6	770.4	758.9	784.7
82.5°	547.0	521.2	512.6	521.2	515.5
85°	306.4	300.7	300.7	292.1	280.7
87.5°	126.0	131.7	134.6	131.7	126.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)