

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: P566865

Luminaire Tested: **4SNX-84HL-LC-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-84HL-LC-UNV-L850-CD
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

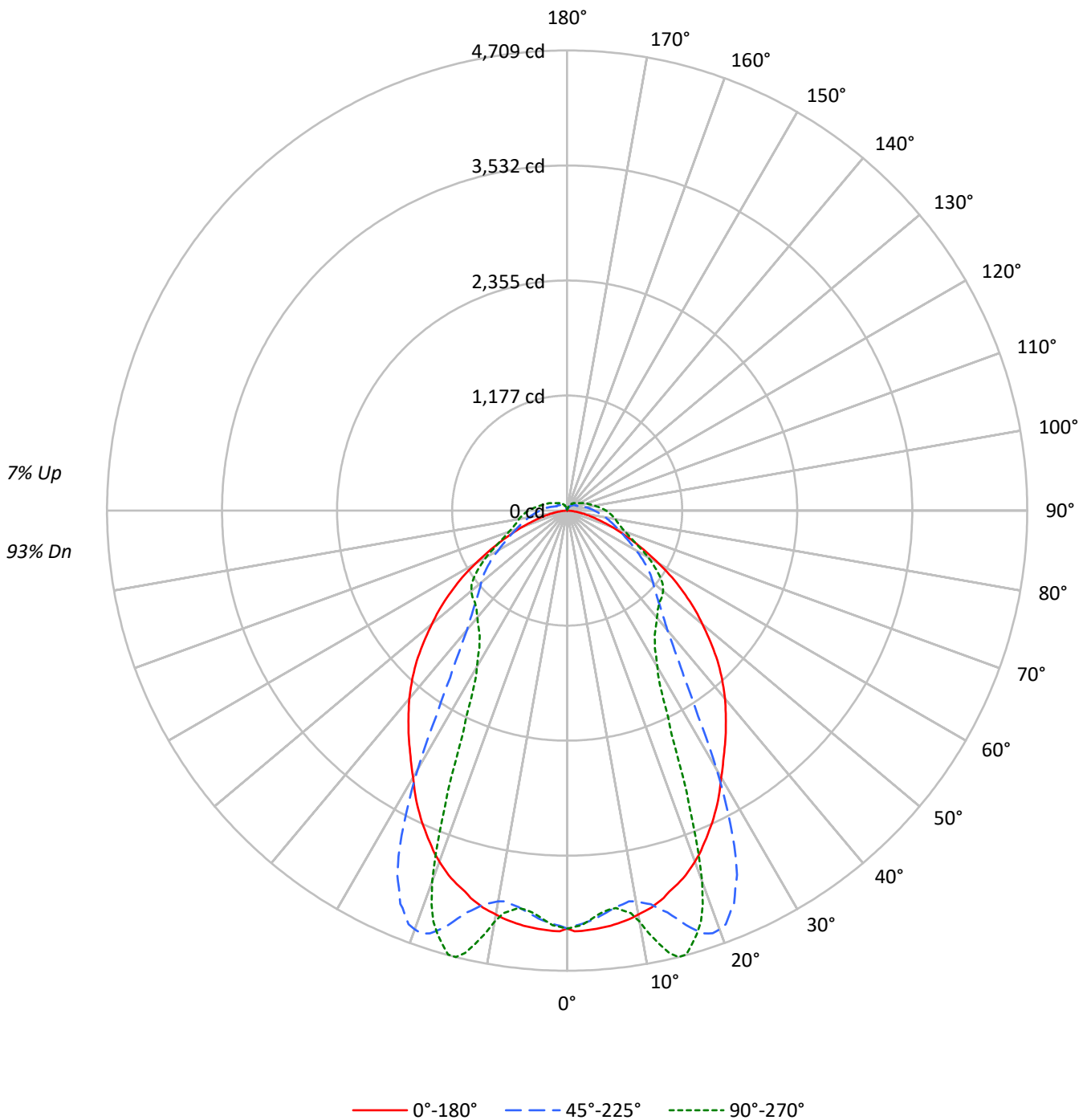
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9505.0 lumens
Efficiency: N/A
Efficacy: 164.2 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 57.9
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

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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	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	83	78	84	79	75	80	76	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36				
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	46035	46035	46035
5°	46089	42964	42138
10°	45538	40795	41785
15°	44478	42433	44483
20°	43132	44191	37230
25°	40966	39611	22891
30°	38274	29480	16567
35°	36075	20330	13976
40°	34106	15765	12881
45°	31811	13409	12181
50°	28825	12022	11957
55°	25679	10859	11063
60°	21651	9384	9569
65°	17475	8162	7987
70°	13566	7323	7032
75°	10340	6793	6558
80°	7060	6417	6492
85°	3639	6103	6446



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.0	4.2
10°-20°	1216.0	12.8
20°-30°	1637.4	17.2
30°-40°	1549.6	16.3
40°-50°	1367.8	14.4
50°-60°	1110.9	11.7
60°-70°	755.6	7.9
70°-80°	486.1	5.1
80°-90°	323.3	3.4
90°-100°	222.2	2.3
100°-110°	149.1	1.6
110°-120°	105.2	1.1
120°-130°	75.1	0.8
130°-140°	53.0	0.6
140°-150°	32.9	0.3
150°-160°	16.1	0.2
160°-170°	5.6	0.1
170°-180°	1.0	0.0
0°-30°	3251.4	34.2
0°-40°	4801.1	50.5
0°-60°	7279.8	76.6
0°-90°	8844.8	93.1
90°-120°	476.5	5.0
90°-150°	637.6	6.7
90°-180°	660.0	6.9
0°-180°	9505.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4277	4277	4277	4277	4277	
5°	4281	4242	4150	4148	4127	406
15°	4036	4010	4319	4700	4705	1138
25°	3516	4169	4114	2988	2527	1614
35°	2826	3965	2090	1609	1560	1768
45°	2177	2667	1322	1306	1334	1671
55°	1450	1578	993	1109	1151	1295
65°	747	850	665	739	762	750
75°	287	402	469	525	550	313
85°	44	171	332	421	450	57
90°	2	119	277	373	398	3
95°	2	91	234	316	338	1
105°	3	64	154	216	242	3
115°	3	55	113	161	181	3
125°	4	46	97	122	131	4
135°	6	36	80	102	107	4
145°	6	26	57	78	86	4
155°	7	16	35	52	60	3
165°	7	10	19	26	32	2
175°	9	9	9	9	7	1
180°	7	7	7	7	7	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4276.8	4276.8	4276.8	4276.8	4276.8
1°	4305.8	4292.7	4249.2	4272.4	4260.8
2°	4304.4	4282.6	4233.2	4259.4	4244.9
3°	4297.1	4273.9	4210.0	4226.0	4204.2
4°	4289.8	4262.3	4185.4	4185.4	4160.7
5°	4281.1	4242.0	4150.5	4147.6	4127.3
6°	4271.0	4226.0	4120.0	4117.1	4105.5
7°	4256.5	4198.4	4086.7	4107.0	4098.3
8°	4239.0	4172.3	4069.3	4120.0	4133.1
9°	4223.1	4140.4	4048.9	4160.7	4170.8
10°	4197.0	4111.3	4062.0	4242.0	4272.4
11°	4175.2	4086.7	4091.0	4321.8	4413.2
12°	4153.4	4060.5	4118.6	4421.9	4533.6
13°	4117.1	4040.2	4179.5	4530.7	4645.4
14°	4085.2	4024.3	4239.0	4641.0	4709.2
15°	4035.9	4009.8	4318.9	4700.5	4704.9
16°	4002.5	3999.6	4411.7	4704.9	4623.6
17°	3964.8	3995.2	4487.2	4629.4	4533.6
18°	3922.7	4004.0	4549.6	4535.1	4424.8
19°	3874.8	4012.7	4575.7	4404.5	4262.3
20°	3822.5	4025.7	4561.2	4268.1	4038.8
21°	3770.3	4043.1	4533.6	4124.4	3745.6
22.5°	3673.1	4085.2	4403.0	3721.0	3260.9
23°	3645.5	4093.9	4372.6	3594.7	3134.7
24°	3577.3	4130.2	4233.2	3300.1	2800.9
25°	3516.3	4169.4	4114.2	2988.1	2526.6
26°	3448.1	4198.4	3934.3	2700.7	2358.3
27°	3381.4	4215.8	3729.7	2477.3	2169.6
28°	3304.5	4234.7	3507.6	2284.2	2027.4
29°	3231.9	4237.6	3288.5	2130.4	1915.6
30°	3153.5	4223.1	3057.7	2007.1	1846.0
32.5°	2982.3	4143.3	2493.2	1772.0	1671.8
35°	2825.5	3964.8	2089.8	1609.4	1560.1
37.5°	2667.4	3683.2	1806.8	1507.8	1491.9
40°	2512.1	3349.4	1593.5	1426.6	1429.5
42.5°	2348.1	3005.5	1446.9	1359.8	1372.9
45°	2176.8	2667.4	1322.1	1306.1	1333.7
47.5°	1986.7	2358.3	1223.4	1271.3	1313.4
50°	1806.8	2052.0	1146.5	1237.9	1281.4
52.5°	1635.5	1801.0	1076.8	1181.3	1232.1
55°	1449.8	1577.5	992.6	1108.7	1150.8
57.5°	1272.7	1375.8	904.1	1018.8	1056.5
60°	1078.3	1176.9	814.1	921.5	957.8
62.5°	902.7	1007.2	737.2	824.3	853.3
65°	747.4	850.4	664.7	738.7	761.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	609.5	719.8	605.2	667.6	689.3
70°	480.4	596.5	552.9	609.5	632.7
72.5°	375.9	493.4	509.4	561.6	584.8
75°	287.3	402.0	468.7	525.3	550.0
77.5°	213.3	328.0	431.0	496.3	522.4
80°	140.8	261.2	397.6	470.2	500.7
82.5°	88.5	210.4	364.3	444.1	476.0
85°	43.5	171.2	332.3	420.9	449.9
87.5°	14.5	142.2	303.3	397.6	422.3
90°	1.5	119.0	277.2	373.0	397.6
92.5°	1.5	103.0	255.4	343.9	368.6
95°	1.5	91.4	233.6	316.4	338.1
97.5°	1.5	82.7	213.3	287.3	310.6
100°	1.5	74.0	191.6	259.8	284.4
102.5°	2.9	68.2	172.7	236.6	262.7
105°	2.9	63.9	153.8	216.2	242.4
107.5°	2.9	61.0	137.9	200.3	224.9
110°	2.9	58.0	126.3	185.8	211.9
112.5°	2.9	56.6	119.0	172.7	197.4
115°	2.9	55.1	113.2	161.1	181.4
117.5°	4.4	53.7	108.8	149.5	165.4
120°	4.4	50.8	105.9	139.3	152.4
122.5°	4.4	47.9	101.6	130.6	140.8
125°	4.4	46.4	97.2	121.9	130.6
127.5°	4.4	43.5	92.9	114.6	123.4
130°	5.8	40.6	88.5	108.8	116.1
132.5°	5.8	37.7	84.2	105.9	111.7
135°	5.8	36.3	79.8	101.6	107.4
137.5°	5.8	33.4	75.5	97.2	103.0
140°	5.8	30.5	69.7	91.4	97.2
142.5°	5.8	29.0	63.9	85.6	91.4
145°	5.8	26.1	56.6	78.4	85.6
147.5°	7.3	24.7	50.8	72.6	78.4
150°	7.3	21.8	45.0	66.8	72.6
152.5°	7.3	18.9	39.2	59.5	65.3
155°	7.3	16.0	34.8	52.2	59.5
157.5°	7.3	14.5	30.5	43.5	52.2
160°	7.3	13.1	26.1	37.7	45.0
162.5°	7.3	11.6	23.2	31.9	39.2
165°	7.3	10.2	18.9	26.1	31.9
167.5°	8.7	10.2	16.0	20.3	26.1
170°	8.7	10.2	13.1	16.0	20.3
172.5°	8.7	8.7	10.2	11.6	13.1
175°	8.7	8.7	8.7	8.7	7.3
177.5°	8.7	8.7	8.7	7.3	7.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	7.3	7.3	7.3	7.3	7.3

(END OF REPORT)