

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: P566855

Luminaire Tested: **4SNX-84HL-FDL-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566855
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: 4SNX-84HL-FDL-UNV-L835-CD
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

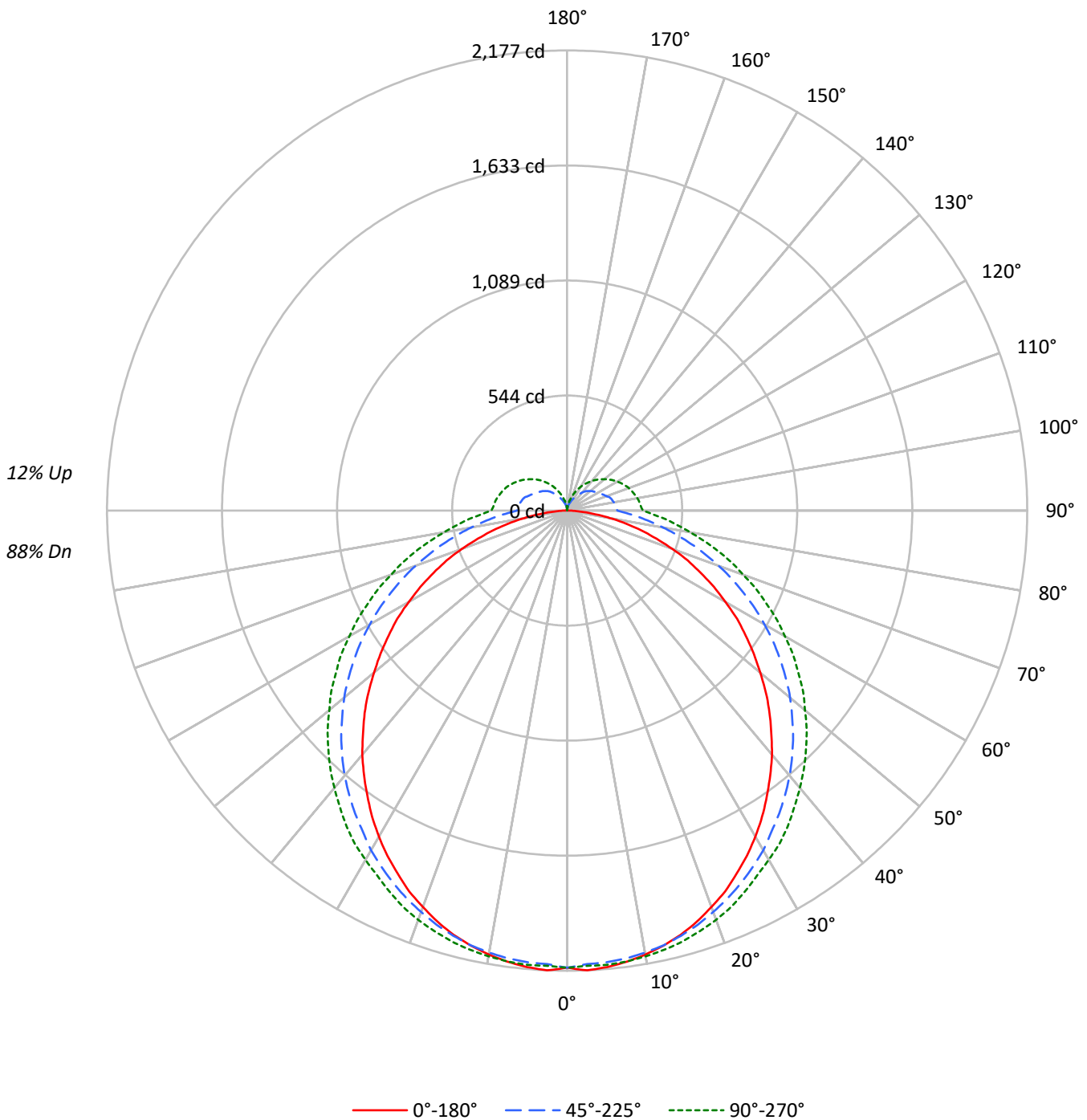
Lumens per Lamp: N/A
Luminaire Lumens: 7785.0 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

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	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°	23276	23276	23276
5°	23401	22926	22971
10°	23271	22711	22733
15°	23082	22452	22512
20°	22774	22142	22259
25°	22406	21827	21920
30°	22005	21510	21630
35°	21496	21131	21429
40°	21003	20816	21118
45°	20406	20452	20856
50°	19713	20066	20524
55°	19055	19589	20229
60°	18296	19080	19866
65°	17369	18496	19512
70°	16194	17857	19109
75°	14516	17156	18971
80°	12174	16721	18820
85°	8829	17068	19837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.3	2.6
10°-20°	590.5	7.6
20°-30°	898.3	11.5
30°-40°	1092.3	14.0
40°-50°	1155.6	14.8
50°-60°	1083.2	13.9
60°-70°	891.1	11.4
70°-80°	616.6	7.9
80°-90°	342.9	4.4
90°-100°	225.9	2.9
100°-110°	202.6	2.6
110°-120°	167.7	2.2
120°-130°	129.6	1.7
130°-140°	91.7	1.2
140°-150°	55.3	0.7
150°-160°	26.6	0.3
160°-170°	8.7	0.1
170°-180°	1.1	0.0
0°-30°	1694.1	21.8
0°-40°	2786.4	35.8
0°-60°	5025.3	64.6
0°-90°	6875.9	88.3
90°-120°	596.1	7.7
90°-150°	872.8	11.2
90°-180°	909.0	11.7
0°-180°	7785.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2162	2162	2162	2162	2162	
5°	2168	2164	2145	2162	2157	206
15°	2077	2084	2082	2110	2110	585
25°	1896	1922	1945	1988	1989	874
35°	1648	1692	1749	1805	1821	1031
45°	1354	1425	1512	1580	1598	1044
55°	1030	1122	1230	1308	1334	923
65°	697	797	921	1012	1040	691
75°	363	468	605	701	740	385
85°	80	199	336	429	467	92
90°	1	112	237	327	359	5
95°	1	107	231	316	347	1
105°	1	92	216	297	324	1
115°	3	80	183	264	293	2
125°	3	68	156	225	253	2
135°	3	53	131	185	208	2
145°	3	39	91	140	157	2
155°	4	27	56	89	104	2
165°	4	17	31	41	53	1
175°	4	7	9	9	5	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2162.4	2162.4	2162.4	2162.4	2162.4
2.5°	2177.0	2170.4	2147.7	2162.4	2155.7
5°	2167.7	2163.7	2145.0	2162.4	2157.0
7.5°	2153.0	2151.7	2137.0	2157.0	2151.7
10°	2133.0	2135.7	2123.7	2145.0	2141.0
12.5°	2107.7	2111.7	2106.4	2130.4	2127.7
15°	2077.1	2083.7	2082.4	2110.4	2110.4
17.5°	2039.7	2049.1	2054.4	2086.4	2086.4
20°	1995.7	2010.4	2021.1	2055.7	2061.1
22.5°	1951.7	1969.1	1985.1	2021.1	2029.1
25°	1895.7	1922.4	1945.1	1987.7	1989.1
27.5°	1841.1	1870.4	1901.1	1942.4	1946.4
30°	1781.1	1818.4	1855.7	1895.7	1907.7
32.5°	1717.1	1758.4	1799.8	1853.1	1869.1
35°	1647.8	1691.8	1749.1	1805.1	1821.1
37.5°	1578.5	1627.8	1694.4	1751.8	1766.4
40°	1507.8	1562.5	1637.1	1695.8	1713.1
42.5°	1429.1	1495.8	1575.8	1638.4	1658.4
45°	1354.5	1425.1	1511.8	1579.8	1598.4
47.5°	1275.8	1350.5	1443.8	1515.8	1537.1
50°	1191.8	1277.2	1377.1	1449.1	1469.1
52.5°	1113.2	1199.8	1305.2	1379.8	1407.8
55°	1030.5	1122.5	1230.5	1307.8	1334.5
57.5°	953.2	1041.2	1157.2	1234.5	1267.8
60°	865.2	962.5	1078.5	1162.5	1189.2
62.5°	782.6	881.2	1001.2	1087.9	1118.5
65°	697.2	797.2	921.2	1011.9	1039.9
67.5°	617.2	715.9	842.6	931.9	967.9
70°	529.3	633.2	762.6	854.6	885.2
72.5°	442.6	550.6	682.6	781.2	815.9
75°	362.6	467.9	605.3	701.2	739.9
77.5°	285.3	391.9	530.6	629.2	662.6
80°	208.0	320.0	461.3	558.6	590.6
82.5°	137.3	254.6	394.6	491.9	526.6
85°	80.0	198.6	336.0	429.3	466.6
87.5°	34.7	150.6	281.3	373.3	403.9
90°	1.3	112.0	237.3	326.6	358.6
92.5°	1.3	109.3	232.0	320.0	350.6
95°	1.3	106.7	230.6	316.0	346.6
97.5°	1.3	105.3	228.0	313.3	342.6
100°	1.3	101.3	224.0	308.0	337.3
102.5°	1.3	96.0	220.0	302.6	330.6
105°	1.3	92.0	216.0	297.3	324.0
107.5°	1.3	88.0	209.3	290.6	317.3
110°	1.3	84.0	198.6	284.0	310.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	82.7	190.6	274.6	302.6
115°	2.7	80.0	182.6	264.0	293.3
117.5°	2.7	78.7	176.0	253.3	284.0
120°	2.7	74.7	169.3	244.0	273.3
122.5°	2.7	70.7	162.6	234.6	264.0
125°	2.7	68.0	156.0	225.3	253.3
127.5°	2.7	64.0	150.6	216.0	241.3
130°	2.7	61.3	144.0	205.3	230.6
132.5°	2.7	57.3	137.3	194.6	218.6
135°	2.7	53.3	130.6	185.3	208.0
137.5°	2.7	48.0	122.6	174.6	196.0
140°	2.7	44.0	112.0	164.0	184.0
142.5°	2.7	41.3	101.3	152.0	170.6
145°	2.7	38.7	90.7	140.0	157.3
147.5°	2.7	36.0	81.3	128.0	144.0
150°	2.7	32.0	72.0	117.3	130.6
152.5°	4.0	29.3	64.0	104.0	117.3
155°	4.0	26.7	56.0	89.3	104.0
157.5°	4.0	24.0	48.0	74.7	90.7
160°	4.0	21.3	41.3	61.3	77.3
162.5°	4.0	20.0	36.0	50.7	65.3
165°	4.0	17.3	30.7	41.3	53.3
167.5°	4.0	13.3	25.3	32.0	44.0
170°	4.0	10.7	20.0	22.7	33.3
172.5°	4.0	8.0	14.7	16.0	17.3
175°	4.0	6.7	9.3	9.3	5.3
177.5°	4.0	5.3	5.3	5.3	2.7
180°	2.7	2.7	2.7	2.7	2.7

(END OF REPORT)