

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: P566857

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566857
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-L850-CD
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

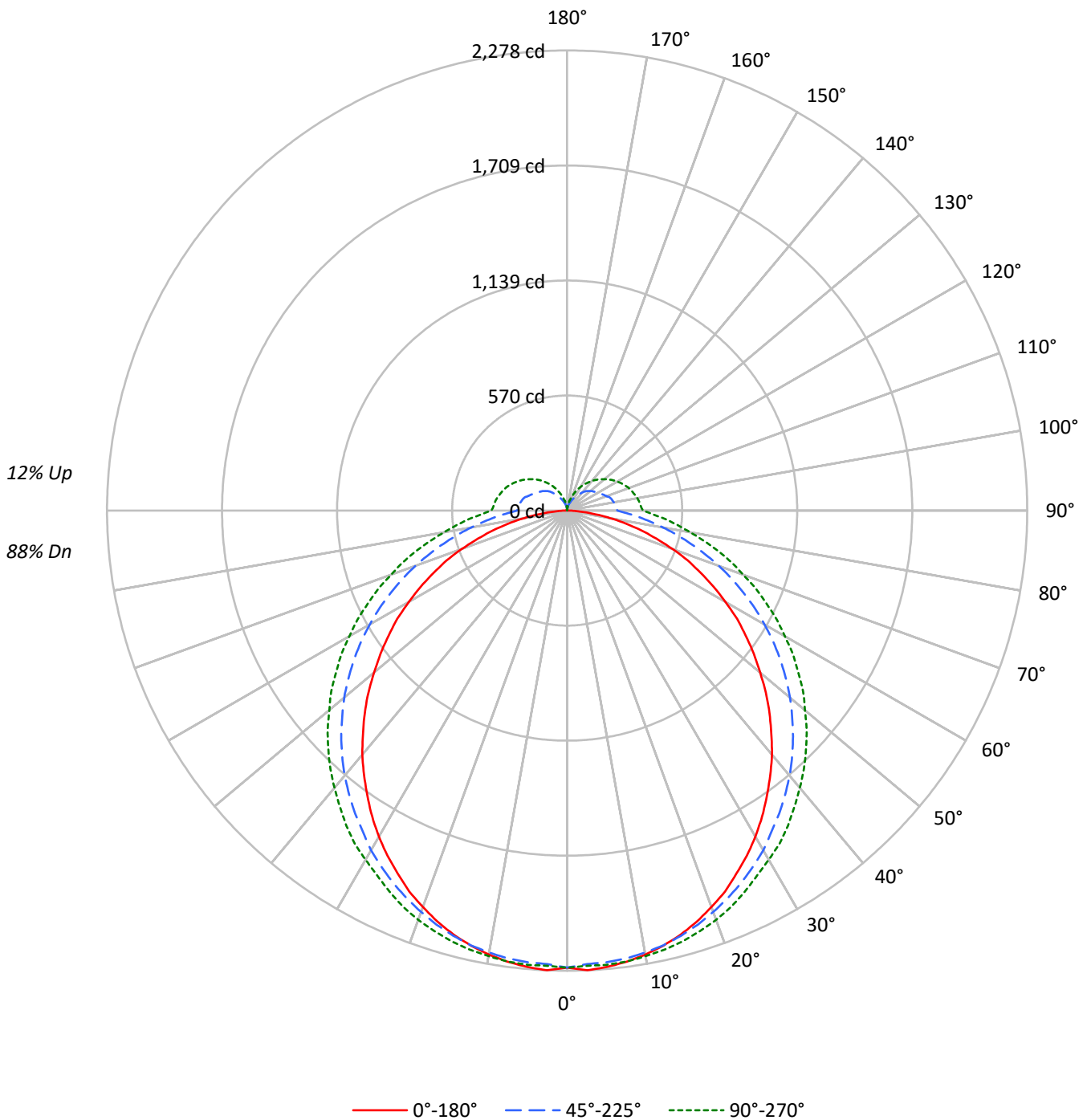
Lumens per Lamp: N/A
Luminaire Lumens: 8145.0 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

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°	24352	24352	24352
5°	24482	23986	24034
10°	24348	23761	23784
15°	24149	23490	23553
20°	23827	23165	23288
25°	23442	22836	22933
30°	23023	22505	22631
35°	22490	22108	22420
40°	21974	21779	22094
45°	21349	21398	21821
50°	20626	20994	21474
55°	19937	20495	21164
60°	19142	19962	20785
65°	18174	19351	20413
70°	16941	18681	19991
75°	15188	17947	19848
80°	12736	17493	19690
85°	9237	17855	20755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.8	2.6
10°-20°	617.8	7.6
20°-30°	939.9	11.5
30°-40°	1142.8	14.0
40°-50°	1209.0	14.8
50°-60°	1133.3	13.9
60°-70°	932.4	11.4
70°-80°	645.1	7.9
80°-90°	358.7	4.4
90°-100°	236.3	2.9
100°-110°	211.9	2.6
110°-120°	175.4	2.2
120°-130°	135.6	1.7
130°-140°	96.0	1.2
140°-150°	57.9	0.7
150°-160°	27.8	0.3
160°-170°	9.1	0.1
170°-180°	1.1	0.0
0°-30°	1772.5	21.8
0°-40°	2915.3	35.8
0°-60°	5257.7	64.6
0°-90°	7193.8	88.3
90°-120°	623.7	7.7
90°-150°	913.2	11.2
90°-180°	951.0	11.7
0°-180°	8145.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2262	2262	2262	2262	2262	
5°	2268	2264	2244	2262	2257	215
15°	2173	2180	2179	2208	2208	613
25°	1983	2011	2035	2080	2081	914
35°	1724	1770	1830	1889	1905	1079
45°	1417	1491	1582	1653	1672	1092
55°	1078	1174	1287	1368	1396	965
65°	730	834	964	1059	1088	723
75°	379	490	633	734	774	402
85°	84	208	352	449	488	96
90°	1	117	248	342	375	6
95°	1	112	241	331	363	1
105°	1	96	226	311	339	1
115°	3	84	191	276	307	2
125°	3	71	163	236	265	3
135°	3	56	137	194	218	2
145°	3	40	95	146	165	2
155°	4	28	59	94	109	2
165°	4	18	32	43	56	1
175°	4	7	10	10	6	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2262.4	2262.4	2262.4	2262.4	2262.4
2.5°	2277.7	2270.7	2247.0	2262.4	2255.4
5°	2267.9	2263.8	2244.2	2262.4	2256.8
7.5°	2252.6	2251.2	2235.9	2256.8	2251.2
10°	2231.7	2234.5	2221.9	2244.2	2240.0
12.5°	2205.2	2209.4	2203.8	2228.9	2226.1
15°	2173.1	2180.1	2178.7	2208.0	2208.0
17.5°	2134.0	2143.8	2149.4	2182.9	2182.9
20°	2088.0	2103.4	2114.5	2150.8	2156.4
22.5°	2042.0	2060.1	2076.9	2114.5	2122.9
25°	1983.4	2011.3	2035.0	2079.6	2081.0
27.5°	1926.2	1956.9	1989.0	2032.2	2036.4
30°	1863.5	1902.5	1941.6	1983.4	1996.0
32.5°	1796.5	1839.7	1883.0	1938.8	1955.5
35°	1724.0	1770.0	1830.0	1888.6	1905.3
37.5°	1651.4	1703.1	1772.8	1832.8	1848.1
40°	1577.5	1634.7	1712.8	1774.2	1792.3
42.5°	1495.2	1565.0	1648.7	1714.2	1735.1
45°	1417.1	1491.0	1581.7	1652.8	1672.4
47.5°	1334.8	1412.9	1510.6	1585.9	1608.2
50°	1247.0	1336.2	1440.8	1516.1	1537.1
52.5°	1164.7	1255.3	1365.5	1443.6	1472.9
55°	1078.2	1174.4	1287.4	1368.3	1396.2
57.5°	997.3	1089.3	1210.7	1291.6	1326.5
60°	905.2	1007.0	1128.4	1216.3	1244.2
62.5°	818.7	922.0	1047.5	1138.2	1170.2
65°	729.5	834.1	963.8	1058.7	1087.9
67.5°	645.8	749.0	881.5	975.0	1012.6
70°	553.7	662.5	797.8	894.1	926.1
72.5°	463.1	576.1	714.1	817.4	853.6
75°	379.4	489.6	633.2	733.7	774.1
77.5°	298.5	410.1	555.1	658.3	693.2
80°	217.6	334.8	482.6	584.4	617.9
82.5°	143.7	266.4	412.9	514.7	550.9
85°	83.7	207.8	351.5	449.1	488.2
87.5°	36.3	157.6	294.3	390.5	422.6
90°	1.4	117.2	248.3	341.7	375.2
92.5°	1.4	114.4	242.7	334.8	366.8
95°	1.4	111.6	241.3	330.6	362.6
97.5°	1.4	110.2	238.5	327.8	358.5
100°	1.4	106.0	234.3	322.2	352.9
102.5°	1.4	100.4	230.1	316.6	345.9
105°	1.4	96.2	226.0	311.0	338.9
107.5°	1.4	92.1	219.0	304.1	332.0
110°	1.4	87.9	207.8	297.1	325.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	86.5	199.5	287.3	316.6
115°	2.8	83.7	191.1	276.2	306.9
117.5°	2.8	82.3	184.1	265.0	297.1
120°	2.8	78.1	177.1	255.2	285.9
122.5°	2.8	73.9	170.2	245.5	276.2
125°	2.8	71.1	163.2	235.7	265.0
127.5°	2.8	67.0	157.6	226.0	252.5
130°	2.8	64.2	150.6	214.8	241.3
132.5°	2.8	60.0	143.7	203.6	228.7
135°	2.8	55.8	136.7	193.9	217.6
137.5°	2.8	50.2	128.3	182.7	205.0
140°	2.8	46.0	117.2	171.6	192.5
142.5°	2.8	43.2	106.0	159.0	178.5
145°	2.8	40.4	94.8	146.5	164.6
147.5°	2.8	37.7	85.1	133.9	150.6
150°	2.8	33.5	75.3	122.7	136.7
152.5°	4.2	30.7	67.0	108.8	122.7
155°	4.2	27.9	58.6	93.5	108.8
157.5°	4.2	25.1	50.2	78.1	94.8
160°	4.2	22.3	43.2	64.2	80.9
162.5°	4.2	20.9	37.7	53.0	68.3
165°	4.2	18.1	32.1	43.2	55.8
167.5°	4.2	13.9	26.5	33.5	46.0
170°	4.2	11.2	20.9	23.7	34.9
172.5°	4.2	8.4	15.3	16.7	18.1
175°	4.2	7.0	9.8	9.8	5.6
177.5°	4.2	5.6	5.6	5.6	2.8
180°	2.8	2.8	2.8	2.8	2.8

(END OF REPORT)