

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: P566858

Luminaire Tested: **4SNX-84HL-FDL-UNV-L930-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566858
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-L930-CD
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

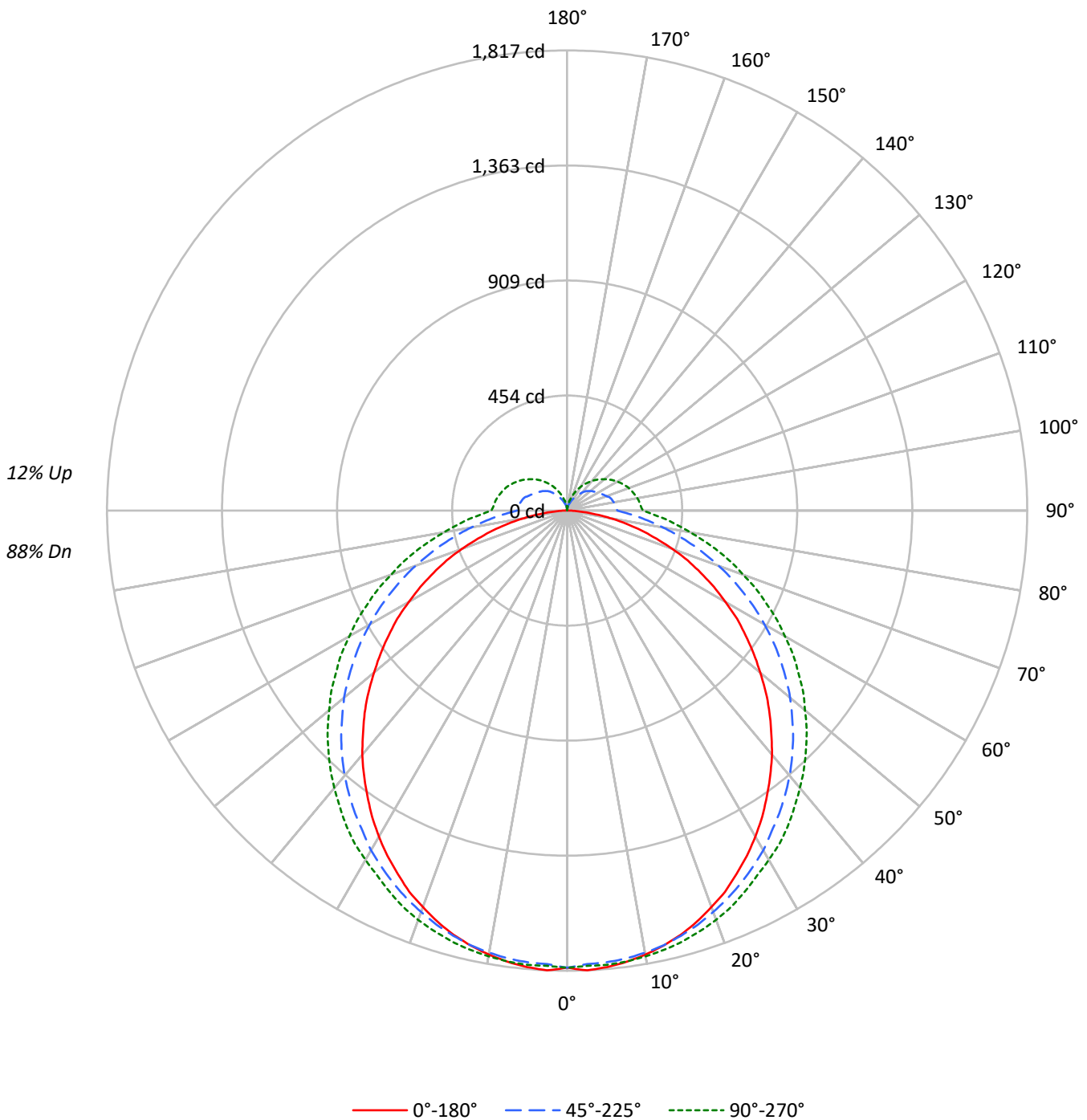
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6498.0 lumens
Efficiency: N/A
Efficacy: 112.2 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 (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°	19428	19428	19428
5°	19532	19136	19174
10°	19424	18956	18975
15°	19266	18740	18790
20°	19009	18481	18579
25°	18702	18218	18296
30°	18367	17955	18055
35°	17942	17637	17886
40°	17530	17375	17627
45°	17033	17072	17408
50°	16454	16750	17132
55°	15906	16351	16885
60°	15272	15925	16582
65°	14499	15438	16286
70°	13517	14904	15950
75°	12118	14319	15835
80°	10161	13955	15710
85°	7372	14244	16559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.3	2.6
10°-20°	492.9	7.6
20°-30°	749.8	11.5
30°-40°	911.7	14.0
40°-50°	964.6	14.8
50°-60°	904.2	13.9
60°-70°	743.8	11.4
70°-80°	514.7	7.9
80°-90°	286.2	4.4
90°-100°	188.5	2.9
100°-110°	169.1	2.6
110°-120°	139.9	2.2
120°-130°	108.2	1.7
130°-140°	76.6	1.2
140°-150°	46.2	0.7
150°-160°	22.2	0.3
160°-170°	7.3	0.1
170°-180°	0.9	0.0
0°-30°	1414.1	21.8
0°-40°	2325.8	35.8
0°-60°	4194.5	64.6
0°-90°	5739.2	88.3
90°-120°	497.5	7.7
90°-150°	728.5	11.2
90°-180°	759.0	11.7
0°-180°	6498.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1805	1805	1805	1805	1805	
5°	1809	1806	1790	1805	1800	172
15°	1734	1739	1738	1762	1762	489
25°	1582	1605	1624	1659	1660	729
35°	1375	1412	1460	1507	1520	861
45°	1131	1190	1262	1319	1334	871
55°	860	937	1027	1092	1114	770
65°	582	665	769	845	868	577
75°	303	391	505	585	618	321
85°	67	166	280	358	390	77
90°	1	94	198	273	299	4
95°	1	89	192	264	289	1
105°	1	77	180	248	270	1
115°	2	67	152	220	245	2
125°	2	57	130	188	211	2
135°	2	44	109	155	174	2
145°	2	32	76	117	131	1
155°	3	22	47	75	87	1
165°	3	14	26	34	44	1
175°	3	6	8	8	4	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1804.9	1804.9	1804.9	1804.9	1804.9
2.5°	1817.1	1811.6	1792.7	1804.9	1799.3
5°	1809.3	1806.0	1790.4	1804.9	1800.4
7.5°	1797.1	1796.0	1783.8	1800.4	1796.0
10°	1780.4	1782.6	1772.6	1790.4	1787.1
12.5°	1759.3	1762.6	1758.2	1778.2	1776.0
15°	1733.7	1739.2	1738.1	1761.5	1761.5
17.5°	1702.5	1710.3	1714.8	1741.5	1741.5
20°	1665.8	1678.0	1686.9	1715.9	1720.3
22.5°	1629.1	1643.5	1656.9	1686.9	1693.6
25°	1582.3	1604.6	1623.5	1659.1	1660.2
27.5°	1536.7	1561.2	1586.8	1621.3	1624.6
30°	1486.6	1517.8	1549.0	1582.3	1592.4
32.5°	1433.2	1467.7	1502.2	1546.7	1560.1
35°	1375.4	1412.1	1459.9	1506.7	1520.0
37.5°	1317.5	1358.7	1414.3	1462.2	1474.4
40°	1258.5	1304.2	1366.5	1415.4	1429.9
42.5°	1192.9	1248.5	1315.3	1367.6	1384.3
45°	1130.6	1189.5	1261.9	1318.6	1334.2
47.5°	1064.9	1127.2	1205.1	1265.2	1283.0
50°	994.8	1066.0	1149.5	1209.6	1226.3
52.5°	929.2	1001.5	1089.4	1151.7	1175.1
55°	860.2	936.9	1027.1	1091.6	1113.9
57.5°	795.6	869.1	965.9	1030.4	1058.2
60°	722.2	803.4	900.2	970.3	992.6
62.5°	653.2	735.5	835.7	908.0	933.6
65°	582.0	665.4	768.9	844.6	868.0
67.5°	515.2	597.6	703.3	777.8	807.9
70°	441.8	528.6	636.5	713.3	738.9
72.5°	369.4	459.6	569.7	652.1	681.0
75°	302.7	390.6	505.2	585.3	617.6
77.5°	238.1	327.2	442.9	525.2	553.0
80°	173.6	267.1	385.0	466.2	493.0
82.5°	114.6	212.5	329.4	410.6	439.5
85°	66.8	165.8	280.4	358.3	389.5
87.5°	28.9	125.7	234.8	311.6	337.2
90°	1.1	93.5	198.1	272.6	299.3
92.5°	1.1	91.2	193.6	267.1	292.7
95°	1.1	89.0	192.5	263.7	289.3
97.5°	1.1	87.9	190.3	261.5	286.0
100°	1.1	84.6	186.9	257.0	281.5
102.5°	1.1	80.1	183.6	252.6	276.0
105°	1.1	76.8	180.3	248.1	270.4
107.5°	1.1	73.4	174.7	242.6	264.8
110°	1.1	70.1	165.8	237.0	259.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	69.0	159.1	229.2	252.6
115°	2.2	66.8	152.4	220.3	244.8
117.5°	2.2	65.7	146.9	211.4	237.0
120°	2.2	62.3	141.3	203.6	228.1
122.5°	2.2	59.0	135.8	195.8	220.3
125°	2.2	56.8	130.2	188.1	211.4
127.5°	2.2	53.4	125.7	180.3	201.4
130°	2.2	51.2	120.2	171.4	192.5
132.5°	2.2	47.8	114.6	162.5	182.5
135°	2.2	44.5	109.1	154.7	173.6
137.5°	2.2	40.1	102.4	145.8	163.6
140°	2.2	36.7	93.5	136.9	153.6
142.5°	2.2	34.5	84.6	126.9	142.4
145°	2.2	32.3	75.7	116.8	131.3
147.5°	2.2	30.0	67.9	106.8	120.2
150°	2.2	26.7	60.1	97.9	109.1
152.5°	3.3	24.5	53.4	86.8	97.9
155°	3.3	22.3	46.7	74.6	86.8
157.5°	3.3	20.0	40.1	62.3	75.7
160°	3.3	17.8	34.5	51.2	64.5
162.5°	3.3	16.7	30.0	42.3	54.5
165°	3.3	14.5	25.6	34.5	44.5
167.5°	3.3	11.1	21.1	26.7	36.7
170°	3.3	8.9	16.7	18.9	27.8
172.5°	3.3	6.7	12.2	13.4	14.5
175°	3.3	5.6	7.8	7.8	4.5
177.5°	3.3	4.5	4.5	4.5	2.2
180°	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)