

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: P566936

Luminaire Tested: **4SNX-87HL-SLW-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566936
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-87HL-SLW-UNV-L840-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

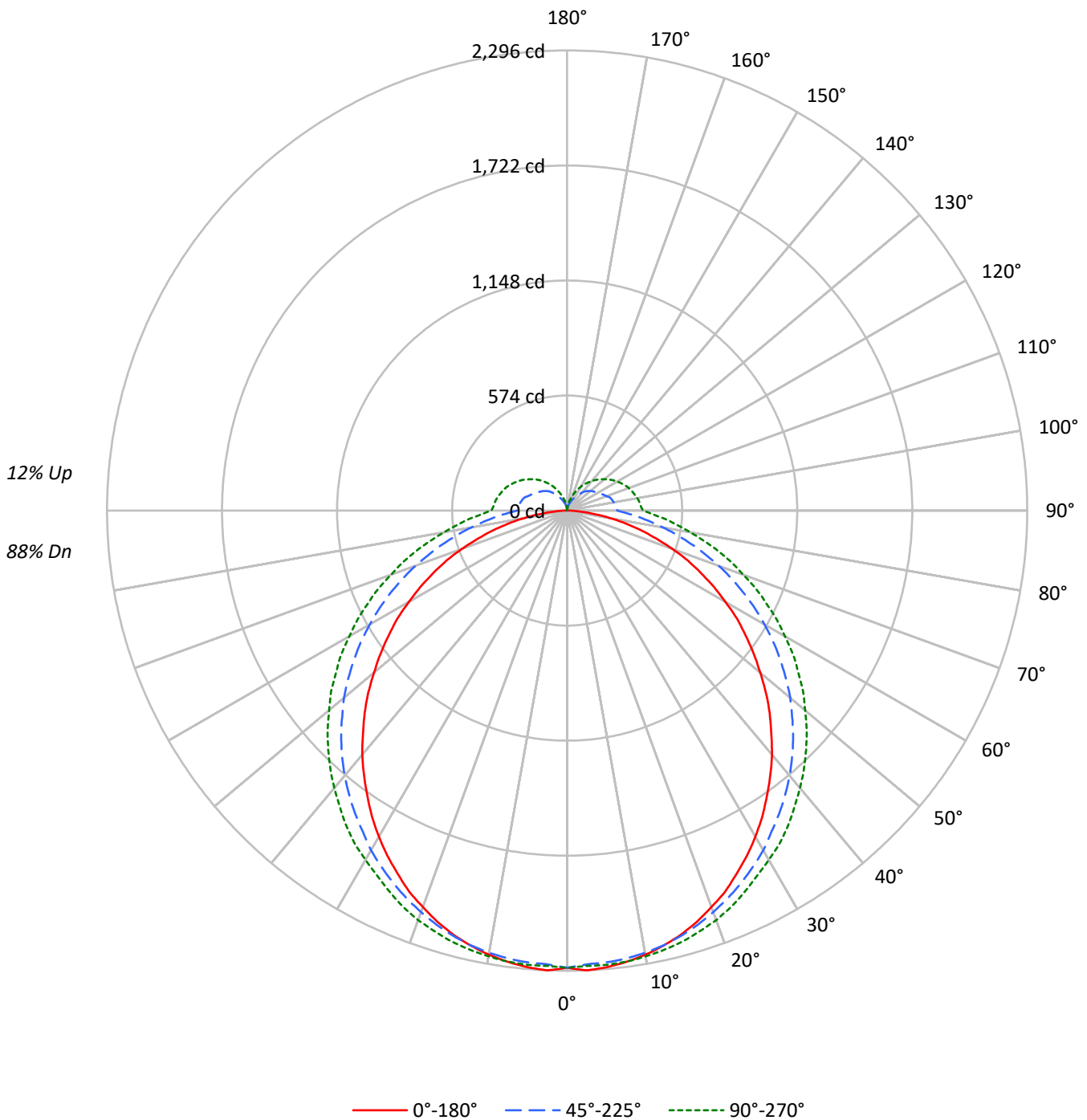
Lumens per Lamp: N/A
Luminaire Lumens: 8212.0 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 62.2
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°	24552	24552	24552
5°	24662	23926	23892
10°	24503	23454	23320
15°	24281	22945	22780
20°	23934	22388	22219
25°	23522	21830	21579
30°	23075	21267	20989
35°	22513	20639	20481
40°	21966	20066	19860
45°	21308	19429	19269
50°	20545	18752	18594
55°	19812	17961	17920
60°	18967	17103	17145
65°	17935	16124	16319
70°	16623	15021	15369
75°	14764	13750	14497
80°	12168	12492	13396
85°	8425	11366	12678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.5	2.6
10°-20°	622.9	7.6
20°-30°	947.6	11.5
30°-40°	1152.2	14.0
40°-50°	1219.0	14.8
50°-60°	1142.6	13.9
60°-70°	940.0	11.4
70°-80°	650.4	7.9
80°-90°	361.7	4.4
90°-100°	238.3	2.9
100°-110°	213.7	2.6
110°-120°	176.9	2.2
120°-130°	136.7	1.7
130°-140°	96.8	1.2
140°-150°	58.4	0.7
150°-160°	28.0	0.3
160°-170°	9.2	0.1
170°-180°	1.1	0.0
0°-30°	1787.1	21.8
0°-40°	2939.3	35.8
0°-60°	5300.9	64.6
0°-90°	7253.0	88.3
90°-120°	628.8	7.7
90°-150°	920.7	11.2
90°-180°	959.0	11.7
0°-180°	8212.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2281	2281	2281	2281	2281	
5°	2287	2282	2263	2281	2275	217
15°	2191	2198	2197	2226	2226	618
25°	2000	2028	2052	2097	2098	922
35°	1738	1785	1845	1904	1921	1088
45°	1429	1503	1595	1666	1686	1101
55°	1087	1184	1298	1380	1408	973
65°	736	841	972	1067	1097	729
75°	382	494	638	740	780	406
85°	84	210	354	453	492	97
90°	1	118	250	344	378	6
95°	1	112	243	333	366	1
105°	1	97	228	314	342	1
115°	3	84	193	278	309	2
125°	3	72	164	238	267	3
135°	3	56	138	196	219	2
145°	3	41	96	148	166	2
155°	4	28	59	94	110	2
165°	4	18	32	44	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°	2281.0	2281.0	2281.0	2281.0	2281.0
2.5°	2296.4	2289.4	2265.5	2281.0	2273.9
5°	2286.6	2282.4	2262.7	2281.0	2275.4
7.5°	2271.1	2269.7	2254.3	2275.4	2269.7
10°	2250.0	2252.9	2240.2	2262.7	2258.5
12.5°	2223.3	2227.5	2221.9	2247.2	2244.4
15°	2191.0	2198.0	2196.6	2226.1	2226.1
17.5°	2151.6	2161.4	2167.1	2200.8	2200.8
20°	2105.2	2120.7	2131.9	2168.5	2174.1
22.5°	2058.8	2077.1	2093.9	2131.9	2140.3
25°	1999.7	2027.8	2051.8	2096.8	2098.2
27.5°	1942.1	1973.0	2005.3	2048.9	2053.2
30°	1878.8	1918.2	1957.5	1999.7	2012.4
32.5°	1811.3	1854.9	1898.5	1954.7	1971.6
35°	1738.2	1784.6	1845.0	1904.1	1921.0
37.5°	1665.0	1717.1	1787.4	1847.8	1863.3
40°	1590.5	1648.2	1726.9	1788.8	1807.1
42.5°	1507.5	1577.8	1662.2	1728.3	1749.4
45°	1428.8	1503.3	1594.7	1666.4	1686.1
47.5°	1345.8	1424.6	1523.0	1598.9	1621.4
50°	1257.2	1347.2	1452.7	1528.6	1549.7
52.5°	1174.2	1265.6	1376.7	1455.5	1485.0
55°	1087.0	1184.1	1298.0	1379.6	1407.7
57.5°	1005.5	1098.3	1220.6	1302.2	1337.4
60°	912.7	1015.3	1137.7	1226.3	1254.4
62.5°	825.5	929.5	1056.1	1147.5	1179.9
65°	735.5	841.0	971.7	1067.4	1096.9
67.5°	651.1	755.2	888.8	983.0	1021.0
70°	558.3	668.0	804.4	901.4	933.8
72.5°	466.9	580.8	720.0	824.1	860.6
75°	382.5	493.6	638.4	739.7	780.5
77.5°	300.9	413.4	559.7	663.8	698.9
80°	219.4	337.5	486.6	589.2	623.0
82.5°	144.8	268.6	416.3	518.9	555.5
85°	84.4	209.5	354.4	452.8	492.2
87.5°	36.6	158.9	296.7	393.8	426.1
90°	1.4	118.1	250.3	344.5	378.3
92.5°	1.4	115.3	244.7	337.5	369.9
95°	1.4	112.5	243.3	333.3	365.6
97.5°	1.4	111.1	240.5	330.5	361.4
100°	1.4	106.9	236.3	324.8	355.8
102.5°	1.4	101.3	232.0	319.2	348.8
105°	1.4	97.0	227.8	313.6	341.7
107.5°	1.4	92.8	220.8	306.6	334.7
110°	1.4	88.6	209.5	299.5	327.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	87.2	201.1	289.7	319.2
115°	2.8	84.4	192.7	278.4	309.4
117.5°	2.8	83.0	185.6	267.2	299.5
120°	2.8	78.8	178.6	257.3	288.3
122.5°	2.8	74.5	171.6	247.5	278.4
125°	2.8	71.7	164.5	237.7	267.2
127.5°	2.8	67.5	158.9	227.8	254.5
130°	2.8	64.7	151.9	216.6	243.3
132.5°	2.8	60.5	144.8	205.3	230.6
135°	2.8	56.3	137.8	195.5	219.4
137.5°	2.8	50.6	129.4	184.2	206.7
140°	2.8	46.4	118.1	173.0	194.1
142.5°	2.8	43.6	106.9	160.3	180.0
145°	2.8	40.8	95.6	147.7	165.9
147.5°	2.8	38.0	85.8	135.0	151.9
150°	2.8	33.8	75.9	123.8	137.8
152.5°	4.2	30.9	67.5	109.7	123.8
155°	4.2	28.1	59.1	94.2	109.7
157.5°	4.2	25.3	50.6	78.8	95.6
160°	4.2	22.5	43.6	64.7	81.6
162.5°	4.2	21.1	38.0	53.4	68.9
165°	4.2	18.3	32.3	43.6	56.3
167.5°	4.2	14.1	26.7	33.8	46.4
170°	4.2	11.3	21.1	23.9	35.2
172.5°	4.2	8.4	15.5	16.9	18.3
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)