

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: P566888

Luminaire Tested: **4SNX-84HL-SLW-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566888
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-SLW-UNV-L840-CD
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

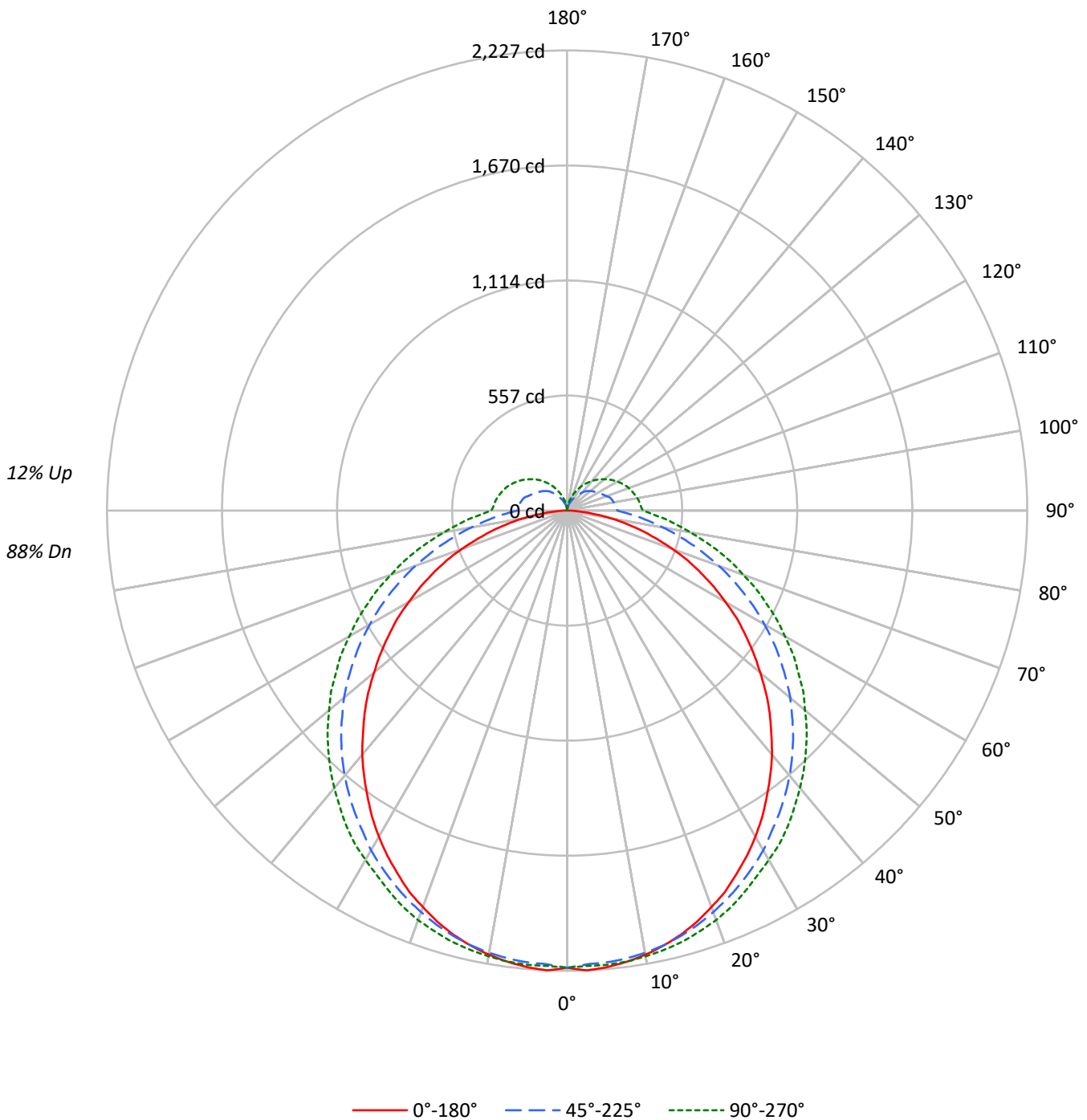
Lumens per Lamp: N/A
Luminaire Lumens: 7965.0 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 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°	23814	23814	23814
5°	23920	23206	23173
10°	23767	22748	22618
15°	23550	22254	22096
20°	23214	21715	21550
25°	22815	21172	20930
30°	22381	20628	20357
35°	21836	20018	19865
40°	21306	19462	19262
45°	20666	18844	18690
50°	19927	18188	18035
55°	19218	17420	17381
60°	18395	16589	16630
65°	17396	15639	15828
70°	16123	14570	14907
75°	14320	13337	14061
80°	11802	12114	12991
85°	8166	11022	12297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.0	2.6
10°-20°	604.2	7.6
20°-30°	919.1	11.5
30°-40°	1117.5	14.0
40°-50°	1182.3	14.8
50°-60°	1108.3	13.9
60°-70°	911.7	11.4
70°-80°	630.9	7.9
80°-90°	350.8	4.4
90°-100°	231.1	2.9
100°-110°	207.2	2.6
110°-120°	171.5	2.2
120°-130°	132.6	1.7
130°-140°	93.9	1.2
140°-150°	56.6	0.7
150°-160°	27.2	0.3
160°-170°	8.9	0.1
170°-180°	1.1	0.0
0°-30°	1733.3	21.8
0°-40°	2850.9	35.8
0°-60°	5141.5	64.6
0°-90°	7034.9	88.3
90°-120°	609.9	7.7
90°-150°	893.0	11.2
90°-180°	930.0	11.7
0°-180°	7965.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2212	2212	2212	2212	2212	
5°	2218	2214	2195	2212	2207	211
15°	2125	2132	2130	2159	2159	599
25°	1940	1967	1990	2034	2035	894
35°	1686	1731	1790	1847	1863	1055
45°	1386	1458	1547	1616	1635	1068
55°	1054	1148	1259	1338	1365	944
65°	713	816	942	1035	1064	707
75°	371	479	619	718	757	394
85°	82	203	344	439	477	94
90°	1	115	243	334	367	5
95°	1	109	236	323	355	1
105°	1	94	221	304	331	1
115°	3	82	187	270	300	2
125°	3	70	160	230	259	2
135°	3	55	134	190	213	2
145°	3	40	93	143	161	2
155°	4	27	57	91	106	2
165°	4	18	31	42	55	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°	2212.4	2212.4	2212.4	2212.4	2212.4
2.5°	2227.4	2220.6	2197.4	2212.4	2205.5
5°	2217.8	2213.7	2194.6	2212.4	2206.9
7.5°	2202.8	2201.5	2186.5	2206.9	2201.5
10°	2182.4	2185.1	2172.8	2194.6	2190.5
12.5°	2156.4	2160.5	2155.1	2179.6	2176.9
15°	2125.1	2131.9	2130.5	2159.2	2159.2
17.5°	2086.9	2096.4	2101.9	2134.6	2134.6
20°	2041.9	2056.9	2067.8	2103.3	2108.7
22.5°	1996.9	2014.6	2031.0	2067.8	2076.0
25°	1939.6	1966.9	1990.0	2033.7	2035.1
27.5°	1883.7	1913.7	1945.0	1987.3	1991.4
30°	1822.3	1860.5	1898.7	1939.6	1951.8
32.5°	1756.8	1799.1	1841.4	1895.9	1912.3
35°	1685.9	1730.9	1789.5	1846.8	1863.2
37.5°	1614.9	1665.4	1733.6	1792.3	1807.3
40°	1542.7	1598.6	1675.0	1735.0	1752.7
42.5°	1462.2	1530.4	1612.2	1676.3	1696.8
45°	1385.8	1458.1	1546.7	1616.3	1635.4
47.5°	1305.3	1381.7	1477.2	1550.8	1572.7
50°	1219.4	1306.7	1409.0	1482.6	1503.1
52.5°	1138.9	1227.6	1335.3	1411.7	1440.4
55°	1054.4	1148.5	1258.9	1338.1	1365.3
57.5°	975.2	1065.3	1183.9	1263.0	1297.1
60°	885.2	984.8	1103.5	1189.4	1216.7
62.5°	800.7	901.6	1024.3	1113.0	1144.4
65°	713.4	815.7	942.5	1035.3	1063.9
67.5°	631.5	732.5	862.0	953.4	990.2
70°	541.5	647.9	780.2	874.3	905.7
72.5°	452.8	563.3	698.4	799.3	834.8
75°	371.0	478.8	619.2	717.5	757.0
77.5°	291.9	401.0	542.9	643.8	677.9
80°	212.8	327.4	471.9	571.5	604.2
82.5°	140.5	260.5	403.7	503.3	538.8
85°	81.8	203.2	343.7	439.2	477.4
87.5°	35.5	154.1	287.8	381.9	413.3
90°	1.4	114.6	242.8	334.2	366.9
92.5°	1.4	111.8	237.3	327.4	358.7
95°	1.4	109.1	236.0	323.3	354.6
97.5°	1.4	107.8	233.2	320.5	350.5
100°	1.4	103.7	229.1	315.1	345.1
102.5°	1.4	98.2	225.1	309.6	338.3
105°	1.4	94.1	221.0	304.2	331.4
107.5°	1.4	90.0	214.1	297.3	324.6
110°	1.4	85.9	203.2	290.5	317.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	84.6	195.0	281.0	309.6
115°	2.7	81.8	186.9	270.1	300.1
117.5°	2.7	80.5	180.0	259.2	290.5
120°	2.7	76.4	173.2	249.6	279.6
122.5°	2.7	72.3	166.4	240.1	270.1
125°	2.7	69.6	159.6	230.5	259.2
127.5°	2.7	65.5	154.1	221.0	246.9
130°	2.7	62.7	147.3	210.1	236.0
132.5°	2.7	58.7	140.5	199.1	223.7
135°	2.7	54.6	133.7	189.6	212.8
137.5°	2.7	49.1	125.5	178.7	200.5
140°	2.7	45.0	114.6	167.8	188.2
142.5°	2.7	42.3	103.7	155.5	174.6
145°	2.7	39.6	92.8	143.2	160.9
147.5°	2.7	36.8	83.2	130.9	147.3
150°	2.7	32.7	73.7	120.0	133.7
152.5°	4.1	30.0	65.5	106.4	120.0
155°	4.1	27.3	57.3	91.4	106.4
157.5°	4.1	24.6	49.1	76.4	92.8
160°	4.1	21.8	42.3	62.7	79.1
162.5°	4.1	20.5	36.8	51.8	66.8
165°	4.1	17.7	31.4	42.3	54.6
167.5°	4.1	13.6	25.9	32.7	45.0
170°	4.1	10.9	20.5	23.2	34.1
172.5°	4.1	8.2	15.0	16.4	17.7
175°	4.1	6.8	9.5	9.5	5.5
177.5°	4.1	5.5	5.5	5.5	2.7
180°	2.7	2.7	2.7	2.7	2.7

(END OF REPORT)