

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: P566832

Luminaire Tested: **4SNX-81HL-LW-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566832
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-81HL-LW-UNV-L840-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

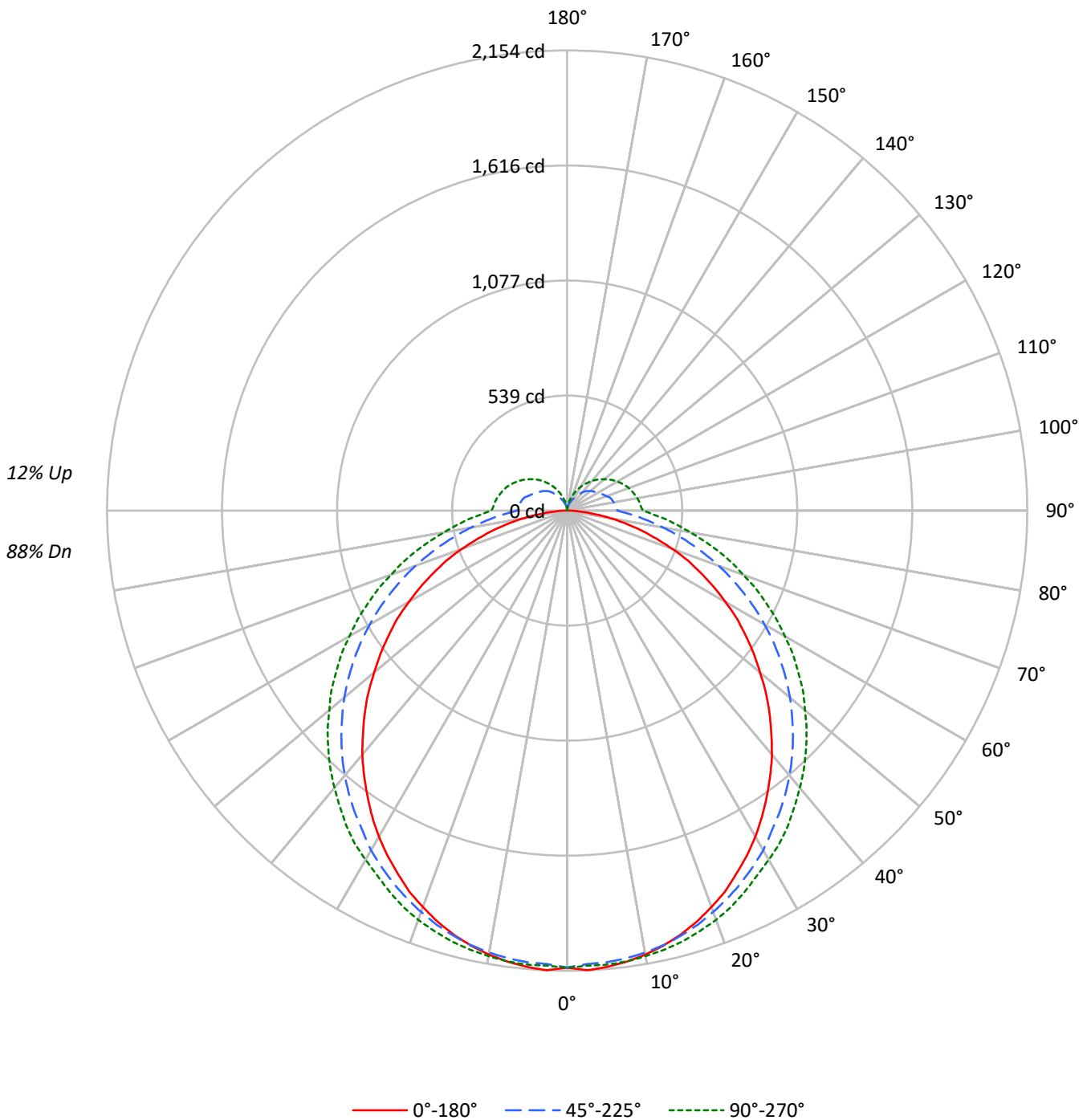
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7701.0 lumens
Efficiency: N/A
Efficacy: 139.8 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: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 55.1
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°	23024	23024	23024
5°	23085	21965	21785
10°	22894	21098	20714
15°	22643	20239	19738
20°	22276	19370	18794
25°	21848	18525	17827
30°	21384	17698	16937
35°	20812	16832	16138
40°	20250	16021	15269
45°	19581	15168	14442
50°	18809	14285	13562
55°	18056	13317	12691
60°	17185	12299	11752
65°	16125	11190	10782
70°	14786	9991	9733
75°	12910	8678	8726
80°	10314	7365	7574
85°	6617	6103	6613



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.1	2.6
10°-20°	584.1	7.6
20°-30°	888.6	11.5
30°-40°	1080.5	14.0
40°-50°	1143.1	14.8
50°-60°	1071.5	13.9
60°-70°	881.5	11.4
70°-80°	609.9	7.9
80°-90°	339.2	4.4
90°-100°	223.4	2.9
100°-110°	200.4	2.6
110°-120°	165.9	2.2
120°-130°	128.2	1.7
130°-140°	90.8	1.2
140°-150°	54.7	0.7
150°-160°	26.3	0.3
160°-170°	8.6	0.1
170°-180°	1.0	0.0
0°-30°	1675.9	21.8
0°-40°	2756.4	35.8
0°-60°	4971.1	64.6
0°-90°	6801.7	88.3
90°-120°	589.6	7.7
90°-150°	863.3	11.2
90°-180°	899.0	11.7
0°-180°	7701.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2139	2139	2139	2139	2139	
5°	2144	2140	2122	2139	2134	204
15°	2055	2061	2060	2088	2088	579
25°	1875	1902	1924	1966	1968	864
35°	1630	1674	1730	1786	1801	1020
45°	1340	1410	1496	1563	1581	1033
55°	1019	1110	1217	1294	1320	913
65°	690	789	911	1001	1029	684
75°	359	463	599	694	732	381
85°	79	196	332	425	462	91
90°	1	111	235	323	355	5
95°	1	106	228	312	343	1
105°	1	91	214	294	320	1
115°	3	79	181	261	290	2
125°	3	67	154	223	251	2
135°	3	53	129	183	206	2
145°	3	38	90	138	156	2
155°	4	26	55	88	103	2
165°	4	17	30	41	53	1
175°	4	7	9	9	5	0
180°	3	3	3	3	3	



TEST NUMBER: P566832

CATALOG NUMBER: 4SNX-81HL-LW-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2139.0	2139.0	2139.0	2139.0	2139.0
2.5°	2153.5	2147.0	2124.5	2139.0	2132.4
5°	2144.3	2140.4	2121.9	2139.0	2133.8
7.5°	2129.8	2128.5	2114.0	2133.8	2128.5
10°	2110.0	2112.7	2100.8	2121.9	2117.9
12.5°	2085.0	2088.9	2083.7	2107.4	2104.8
15°	2054.6	2061.2	2059.9	2087.6	2087.6
17.5°	2017.7	2026.9	2032.2	2063.9	2063.9
20°	1974.2	1988.7	1999.3	2033.5	2038.8
22.5°	1930.7	1947.8	1963.6	1999.3	2007.2
25°	1875.3	1901.7	1924.1	1966.3	1967.6
27.5°	1821.2	1850.2	1880.6	1921.4	1925.4
30°	1761.9	1798.8	1835.7	1875.3	1887.2
32.5°	1698.6	1739.5	1780.3	1833.1	1848.9
35°	1630.0	1673.5	1730.2	1785.6	1801.4
37.5°	1561.4	1610.2	1676.2	1732.9	1747.4
40°	1491.5	1545.6	1619.4	1677.5	1694.6
42.5°	1413.7	1479.7	1558.8	1620.8	1640.5
45°	1339.9	1409.8	1495.5	1562.7	1581.2
47.5°	1262.1	1335.9	1428.2	1499.4	1520.5
50°	1179.0	1263.4	1362.3	1433.5	1453.3
52.5°	1101.2	1186.9	1291.1	1364.9	1392.6
55°	1019.4	1110.4	1217.2	1293.7	1320.1
57.5°	942.9	1030.0	1144.7	1221.2	1254.1
60°	855.9	952.1	1066.9	1150.0	1176.3
62.5°	774.1	871.7	990.4	1076.1	1106.4
65°	689.7	788.6	911.3	1000.9	1028.6
67.5°	610.6	708.2	833.5	921.8	957.4
70°	523.6	626.4	754.3	845.3	875.7
72.5°	437.8	544.7	675.2	772.8	807.1
75°	358.7	462.9	598.7	693.7	731.9
77.5°	282.2	387.7	524.9	622.5	655.4
80°	205.7	316.5	456.3	552.6	584.2
82.5°	135.8	251.9	390.4	486.6	520.9
85°	79.1	196.5	332.3	424.6	461.6
87.5°	34.3	149.0	278.3	369.3	399.6
90°	1.3	110.8	234.7	323.1	354.7
92.5°	1.3	108.1	229.5	316.5	346.8
95°	1.3	105.5	228.1	312.5	342.9
97.5°	1.3	104.2	225.5	309.9	338.9
100°	1.3	100.2	221.6	304.6	333.6
102.5°	1.3	95.0	217.6	299.4	327.1
105°	1.3	91.0	213.6	294.1	320.5
107.5°	1.3	87.0	207.0	287.5	313.9
110°	1.3	83.1	196.5	280.9	307.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	81.8	188.6	271.7	299.4
115°	2.6	79.1	180.7	261.1	290.1
117.5°	2.6	77.8	174.1	250.6	280.9
120°	2.6	73.9	167.5	241.3	270.3
122.5°	2.6	69.9	160.9	232.1	261.1
125°	2.6	67.3	154.3	222.9	250.6
127.5°	2.6	63.3	149.0	213.6	238.7
130°	2.6	60.7	142.4	203.1	228.1
132.5°	2.6	56.7	135.8	192.5	216.3
135°	2.6	52.8	129.2	183.3	205.7
137.5°	2.6	47.5	121.3	172.8	193.9
140°	2.6	43.5	110.8	162.2	182.0
142.5°	2.6	40.9	100.2	150.3	168.8
145°	2.6	38.2	89.7	138.5	155.6
147.5°	2.6	35.6	80.4	126.6	142.4
150°	2.6	31.7	71.2	116.1	129.2
152.5°	4.0	29.0	63.3	102.9	116.1
155°	4.0	26.4	55.4	88.4	102.9
157.5°	4.0	23.7	47.5	73.9	89.7
160°	4.0	21.1	40.9	60.7	76.5
162.5°	4.0	19.8	35.6	50.1	64.6
165°	4.0	17.1	30.3	40.9	52.8
167.5°	4.0	13.2	25.1	31.7	43.5
170°	4.0	10.6	19.8	22.4	33.0
172.5°	4.0	7.9	14.5	15.8	17.1
175°	4.0	6.6	9.2	9.2	5.3
177.5°	4.0	5.3	5.3	5.3	2.6
180°	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)