

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: P566839

Luminaire Tested: **4SNX-81HL-SLW-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566839
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-SLW-UNV-L835-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

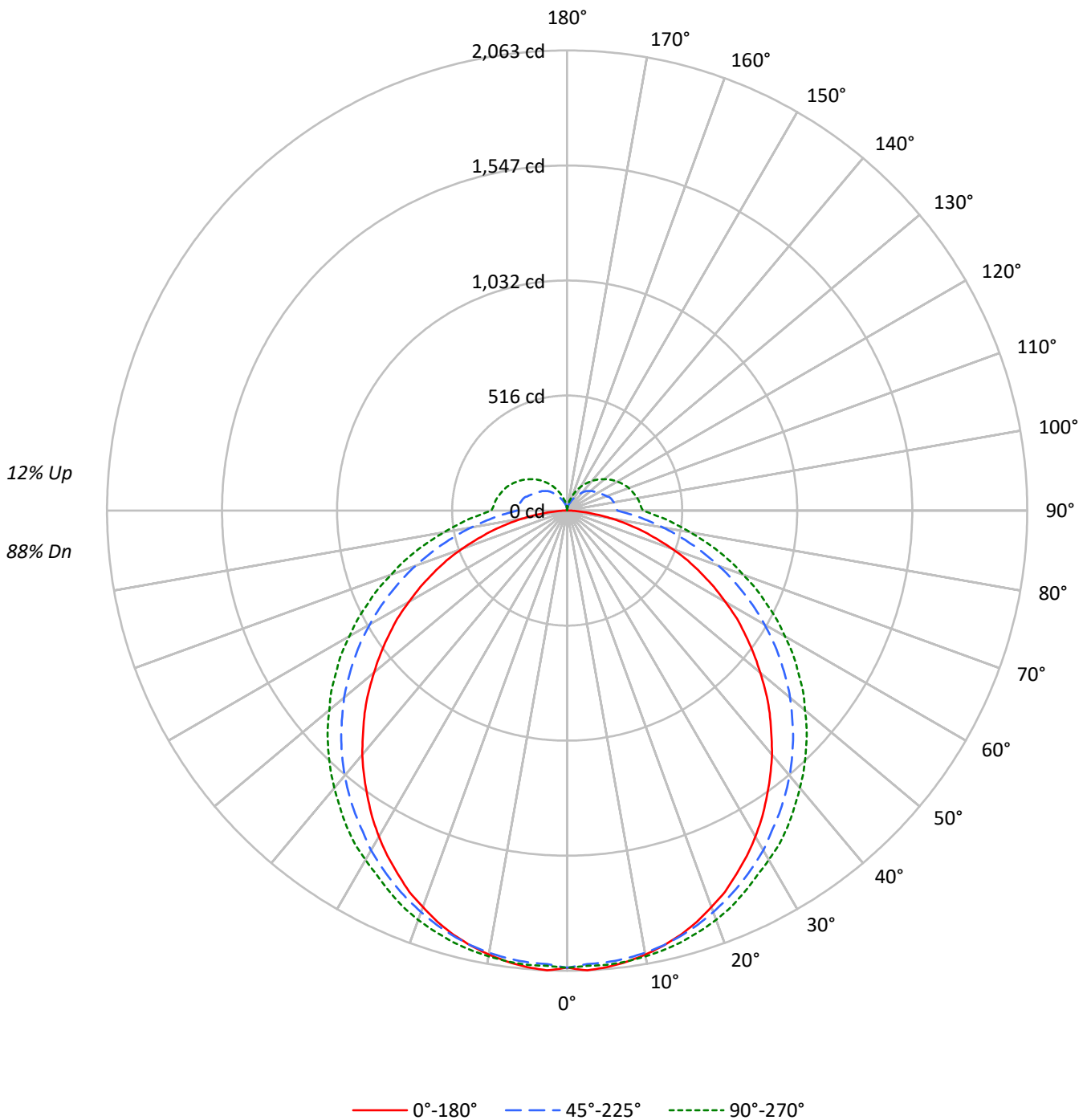
Lumens per Lamp: N/A
Luminaire Lumens: 7378.0 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 55.1
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

TEST NUMBER: P566839

CATALOG NUMBER: 4SNX-81HL-SLW-UNV-L835-CD

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°	22058	22058	22058
5°	22158	21496	21465
10°	22014	21072	20951
15°	21815	20614	20467
20°	21503	20114	19962
25°	21133	19612	19387
30°	20732	19107	18857
35°	20226	18544	18401
40°	19736	18027	17842
45°	19144	17457	17313
50°	18458	16847	16705
55°	17802	16137	16100
60°	17040	15365	15404
65°	16113	14486	14662
70°	14935	13496	13807
75°	13267	12354	13024
80°	10931	11224	12035
85°	7567	10211	11390



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.6	2.6
10°-20°	559.6	7.6
20°-30°	851.4	11.5
30°-40°	1035.2	14.0
40°-50°	1095.2	14.8
50°-60°	1026.6	13.9
60°-70°	844.5	11.4
70°-80°	584.4	7.9
80°-90°	324.9	4.4
90°-100°	214.1	2.9
100°-110°	192.0	2.6
110°-120°	158.9	2.2
120°-130°	122.8	1.7
130°-140°	86.9	1.2
140°-150°	52.4	0.7
150°-160°	25.2	0.3
160°-170°	8.2	0.1
170°-180°	1.0	0.0
0°-30°	1605.6	21.8
0°-40°	2640.8	35.8
0°-60°	4762.5	64.6
0°-90°	6516.4	88.3
90°-120°	565.0	7.7
90°-150°	827.2	11.2
90°-180°	862.0	11.7
0°-180°	7378.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2049	2049	2049	2049	2049	
5°	2054	2051	2033	2049	2044	195
15°	1968	1975	1974	2000	2000	555
25°	1797	1822	1843	1884	1885	828
35°	1562	1603	1658	1711	1726	977
45°	1284	1351	1433	1497	1515	989
55°	977	1064	1166	1239	1265	874
65°	661	756	873	959	986	655
75°	344	444	574	665	701	365
85°	76	188	318	407	442	87
90°	1	106	225	310	340	5
95°	1	101	219	299	328	1
105°	1	87	205	282	307	1
115°	2	76	173	250	278	2
125°	2	64	148	214	240	2
135°	2	50	124	176	197	2
145°	2	37	86	133	149	2
155°	4	25	53	85	98	2
165°	4	16	29	39	50	1
175°	4	6	9	9	5	0
180°	2	2	2	2	2	



TEST NUMBER: P566839

CATALOG NUMBER: 4SNX-81HL-SLW-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2049.3	2049.3	2049.3	2049.3	2049.3
2.5°	2063.2	2056.9	2035.4	2049.3	2043.0
5°	2054.4	2050.6	2032.9	2049.3	2044.3
7.5°	2040.5	2039.2	2025.3	2044.3	2039.2
10°	2021.5	2024.1	2012.7	2032.9	2029.1
12.5°	1997.5	2001.3	1996.3	2019.0	2016.5
15°	1968.5	1974.8	1973.5	2000.0	2000.0
17.5°	1933.1	1941.9	1947.0	1977.3	1977.3
20°	1891.4	1905.3	1915.4	1948.2	1953.3
22.5°	1849.7	1866.1	1881.3	1915.4	1923.0
25°	1796.6	1821.9	1843.4	1883.8	1885.1
27.5°	1744.8	1772.6	1801.7	1840.9	1844.6
30°	1688.0	1723.4	1758.7	1796.6	1808.0
32.5°	1627.3	1666.5	1705.7	1756.2	1771.4
35°	1561.6	1603.3	1657.7	1710.7	1725.9
37.5°	1495.9	1542.7	1605.9	1660.2	1674.1
40°	1429.0	1480.8	1551.5	1607.1	1623.5
42.5°	1354.4	1417.6	1493.4	1552.8	1571.7
45°	1283.7	1350.6	1432.8	1497.2	1514.9
47.5°	1209.1	1279.9	1368.3	1436.5	1456.8
50°	1129.5	1210.4	1305.1	1373.4	1392.3
52.5°	1055.0	1137.1	1236.9	1307.7	1334.2
55°	976.7	1063.8	1166.2	1239.4	1264.7
57.5°	903.4	986.8	1096.7	1170.0	1201.5
60°	820.0	912.2	1022.1	1101.7	1127.0
62.5°	741.6	835.1	948.9	1031.0	1060.0
65°	660.8	755.5	873.0	959.0	985.5
67.5°	585.0	678.5	798.5	883.2	917.3
70°	501.6	600.1	722.7	809.9	838.9
72.5°	419.5	521.8	646.9	740.4	773.2
75°	343.7	443.5	573.6	664.6	701.2
77.5°	270.4	371.5	502.9	596.4	627.9
80°	197.1	303.2	437.2	529.4	559.7
82.5°	130.1	241.3	374.0	466.2	499.1
85°	75.8	188.3	318.4	406.8	442.2
87.5°	32.8	142.8	266.6	353.8	382.8
90°	1.3	106.1	224.9	309.5	339.9
92.5°	1.3	103.6	219.8	303.2	332.3
95°	1.3	101.1	218.6	299.4	328.5
97.5°	1.3	99.8	216.1	296.9	324.7
100°	1.3	96.0	212.3	291.9	319.7
102.5°	1.3	91.0	208.5	286.8	313.3
105°	1.3	87.2	204.7	281.8	307.0
107.5°	1.3	83.4	198.4	275.4	300.7
110°	1.3	79.6	188.3	269.1	294.4



TEST NUMBER: P566839

CATALOG NUMBER: 4SNX-81HL-SLW-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	78.3	180.7	260.3	286.8
115°	2.5	75.8	173.1	250.2	278.0
117.5°	2.5	74.5	166.8	240.1	269.1
120°	2.5	70.8	160.5	231.2	259.0
122.5°	2.5	67.0	154.1	222.4	250.2
125°	2.5	64.4	147.8	213.5	240.1
127.5°	2.5	60.6	142.8	204.7	228.7
130°	2.5	58.1	136.5	194.6	218.6
132.5°	2.5	54.3	130.1	184.5	207.2
135°	2.5	50.5	123.8	175.6	197.1
137.5°	2.5	45.5	116.2	165.5	185.7
140°	2.5	41.7	106.1	155.4	174.4
142.5°	2.5	39.2	96.0	144.0	161.7
145°	2.5	36.6	85.9	132.7	149.1
147.5°	2.5	34.1	77.1	121.3	136.5
150°	2.5	30.3	68.2	111.2	123.8
152.5°	3.8	27.8	60.6	98.5	111.2
155°	3.8	25.3	53.1	84.7	98.5
157.5°	3.8	22.7	45.5	70.8	85.9
160°	3.8	20.2	39.2	58.1	73.3
162.5°	3.8	19.0	34.1	48.0	61.9
165°	3.8	16.4	29.1	39.2	50.5
167.5°	3.8	12.6	24.0	30.3	41.7
170°	3.8	10.1	19.0	21.5	31.6
172.5°	3.8	7.6	13.9	15.2	16.4
175°	3.8	6.3	8.8	8.8	5.1
177.5°	3.8	5.1	5.1	5.1	2.5
180°	2.5	2.5	2.5	2.5	2.5

(END OF REPORT)