

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: P566983

Luminaire Tested: **4SNX-90HL-SLW-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566983
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-90HL-SLW-UNV-L835-CD
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

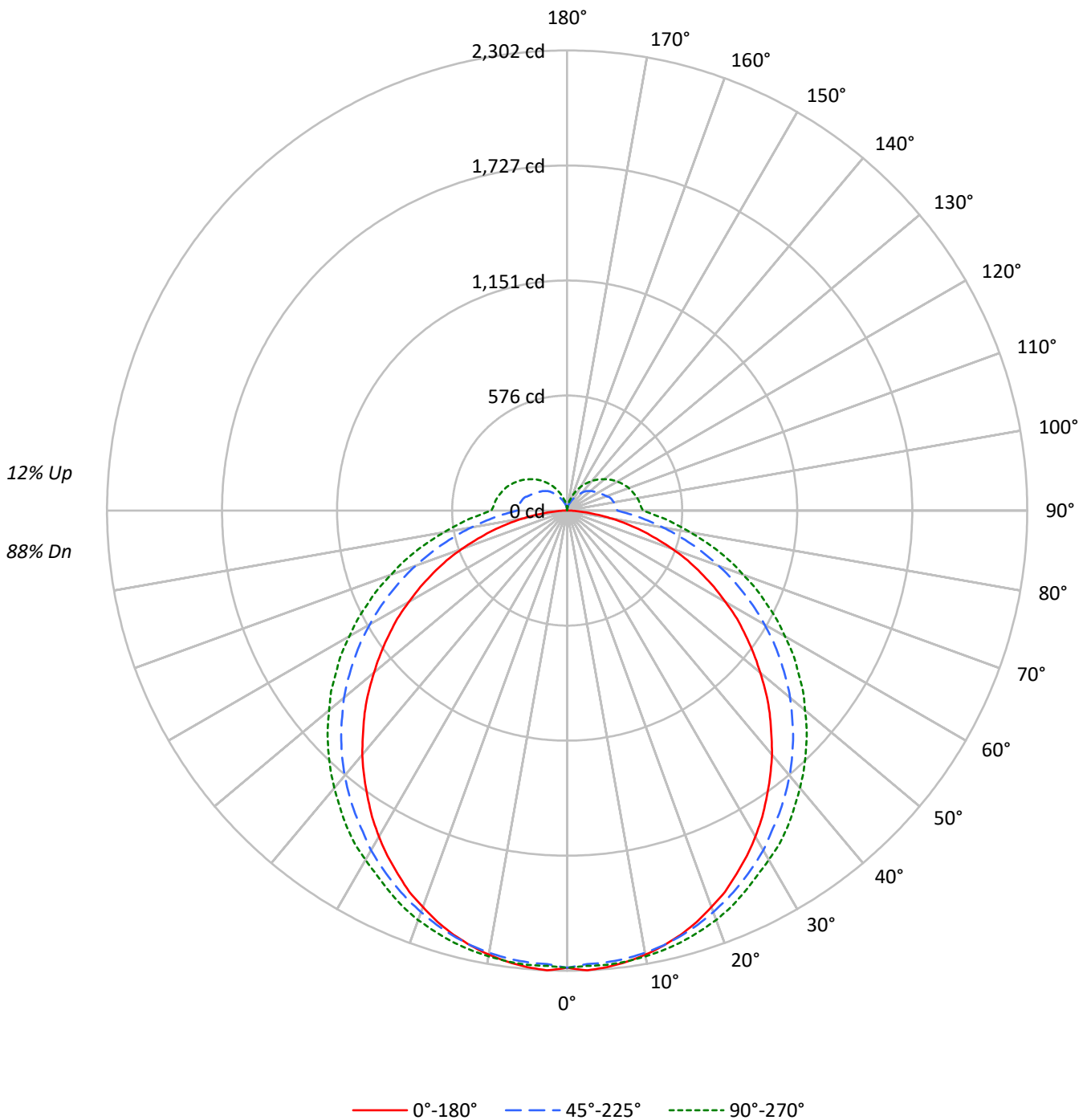
Lumens per Lamp: N/A
Luminaire Lumens: 8233.0 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 64.4
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°	24615	24615	24615
5°	24725	23988	23953
10°	24566	23513	23380
15°	24343	23003	22839
20°	23995	22446	22276
25°	23582	21885	21633
30°	23134	21322	21042
35°	22570	20692	20534
40°	22023	20117	19910
45°	21361	19479	19318
50°	20597	18800	18642
55°	19863	18006	17966
60°	19015	17147	17189
65°	17981	16165	16361
70°	16665	15059	15409
75°	14803	13787	14534
80°	12196	12523	13430
85°	8445	11394	12711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.1	2.6
10°-20°	624.5	7.6
20°-30°	950.0	11.5
30°-40°	1155.1	14.0
40°-50°	1222.1	14.8
50°-60°	1145.6	13.9
60°-70°	942.4	11.4
70°-80°	652.1	7.9
80°-90°	362.6	4.4
90°-100°	238.9	2.9
100°-110°	214.2	2.6
110°-120°	177.3	2.2
120°-130°	137.1	1.7
130°-140°	97.0	1.2
140°-150°	58.5	0.7
150°-160°	28.1	0.3
160°-170°	9.2	0.1
170°-180°	1.1	0.0
0°-30°	1791.6	21.8
0°-40°	2946.8	35.8
0°-60°	5314.5	64.6
0°-90°	7271.6	88.3
90°-120°	630.4	7.7
90°-150°	923.0	11.2
90°-180°	961.0	11.7
0°-180°	8233.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2287	2287	2287	2287	2287	
5°	2292	2288	2268	2287	2281	218
15°	2197	2204	2202	2232	2232	619
25°	2005	2033	2057	2102	2104	924
35°	1743	1789	1850	1909	1926	1091
45°	1432	1507	1599	1671	1690	1104
55°	1090	1187	1301	1383	1411	976
65°	737	843	974	1070	1100	731
75°	384	495	640	742	782	407
85°	85	210	355	454	494	97
90°	1	118	251	345	379	6
95°	1	113	244	334	367	1
105°	1	97	228	314	343	1
115°	3	85	193	279	310	2
125°	3	72	165	238	268	3
135°	3	56	138	196	220	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°	2286.8	2286.8	2286.8	2286.8	2286.8
2.5°	2302.3	2295.3	2271.3	2286.8	2279.8
5°	2292.4	2288.2	2268.5	2286.8	2281.2
7.5°	2276.9	2275.5	2260.0	2281.2	2275.5
10°	2255.8	2258.6	2245.9	2268.5	2264.3
12.5°	2229.0	2233.2	2227.6	2253.0	2250.2
15°	2196.6	2203.6	2202.2	2231.8	2231.8
17.5°	2157.1	2167.0	2172.6	2206.4	2206.4
20°	2110.6	2126.1	2137.4	2174.0	2179.7
22.5°	2064.0	2082.4	2099.3	2137.4	2145.8
25°	2004.8	2033.0	2057.0	2102.1	2103.5
27.5°	1947.0	1978.0	2010.5	2054.2	2058.4
30°	1883.6	1923.1	1962.5	2004.8	2017.5
32.5°	1815.9	1859.6	1903.3	1959.7	1976.6
35°	1742.6	1789.1	1849.7	1909.0	1925.9
37.5°	1669.3	1721.5	1791.9	1852.6	1868.1
40°	1594.6	1652.4	1731.3	1793.4	1811.7
42.5°	1511.4	1581.9	1666.5	1732.7	1753.9
45°	1432.4	1507.2	1598.8	1670.7	1690.4
47.5°	1349.2	1428.2	1526.9	1603.0	1625.6
50°	1260.4	1350.7	1456.4	1532.5	1553.7
52.5°	1177.2	1268.9	1380.3	1459.2	1488.8
55°	1089.8	1187.1	1301.3	1383.1	1411.3
57.5°	1008.1	1101.1	1223.8	1305.5	1340.8
60°	915.0	1017.9	1140.6	1229.4	1257.6
62.5°	827.6	931.9	1058.8	1150.5	1182.9
65°	737.4	843.1	974.2	1070.1	1099.7
67.5°	652.8	757.1	891.0	985.5	1023.6
70°	559.7	669.7	806.4	903.7	936.2
72.5°	468.1	582.3	721.9	826.2	862.8
75°	383.5	494.9	640.1	741.6	782.5
77.5°	301.7	414.5	561.1	665.5	700.7
80°	219.9	338.4	487.8	590.7	624.6
82.5°	145.2	269.3	417.3	520.2	556.9
85°	84.6	210.1	355.3	454.0	493.5
87.5°	36.7	159.3	297.5	394.8	427.2
90°	1.4	118.4	251.0	345.4	379.3
92.5°	1.4	115.6	245.3	338.4	370.8
95°	1.4	112.8	243.9	334.1	366.6
97.5°	1.4	111.4	241.1	331.3	362.3
100°	1.4	107.2	236.9	325.7	356.7
102.5°	1.4	101.5	232.6	320.0	349.6
105°	1.4	97.3	228.4	314.4	342.6
107.5°	1.4	93.1	221.3	307.4	335.5
110°	1.4	88.8	210.1	300.3	328.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	87.4	201.6	290.4	320.0
115°	2.8	84.6	193.2	279.2	310.2
117.5°	2.8	83.2	186.1	267.9	300.3
120°	2.8	79.0	179.1	258.0	289.0
122.5°	2.8	74.7	172.0	248.1	279.2
125°	2.8	71.9	165.0	238.3	267.9
127.5°	2.8	67.7	159.3	228.4	255.2
130°	2.8	64.9	152.3	217.1	243.9
132.5°	2.8	60.6	145.2	205.8	231.2
135°	2.8	56.4	138.2	196.0	219.9
137.5°	2.8	50.8	129.7	184.7	207.3
140°	2.8	46.5	118.4	173.4	194.6
142.5°	2.8	43.7	107.2	160.7	180.5
145°	2.8	40.9	95.9	148.0	166.4
147.5°	2.8	38.1	86.0	135.3	152.3
150°	2.8	33.8	76.1	124.1	138.2
152.5°	4.2	31.0	67.7	110.0	124.1
155°	4.2	28.2	59.2	94.5	110.0
157.5°	4.2	25.4	50.8	79.0	95.9
160°	4.2	22.6	43.7	64.9	81.8
162.5°	4.2	21.1	38.1	53.6	69.1
165°	4.2	18.3	32.4	43.7	56.4
167.5°	4.2	14.1	26.8	33.8	46.5
170°	4.2	11.3	21.1	24.0	35.2
172.5°	4.2	8.5	15.5	16.9	18.3
175°	4.2	7.0	9.9	9.9	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)