

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: P567016

Luminaire Tested: **4SNX-93HL-LN-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-93HL-LN-UNV-L840-CD
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

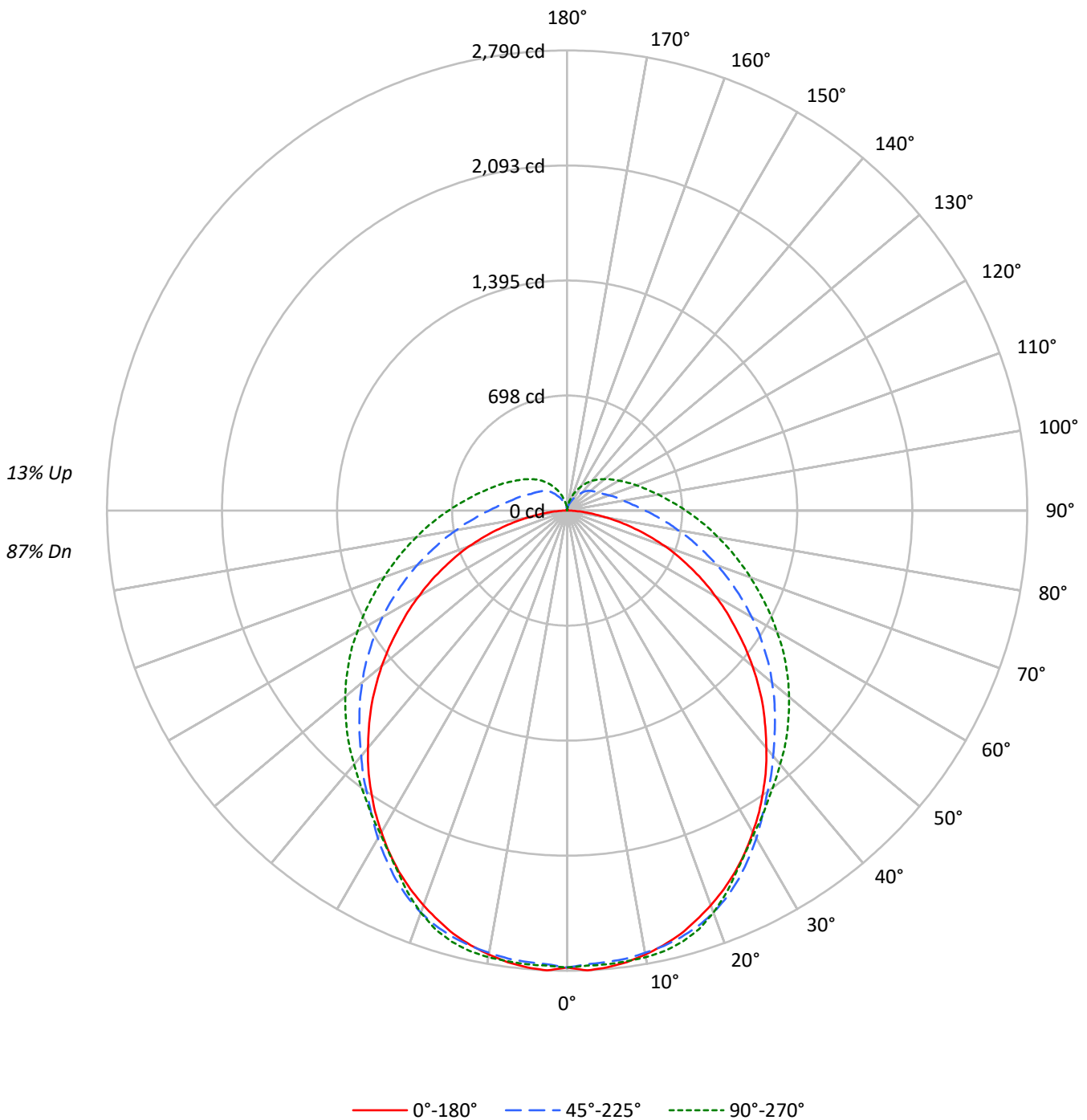
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10000.0 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 67.4
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	104	104	104		96	96	96		90	90	90	87
1	104	98	93	89	100	95	90	86	88	84	81		82	79	76		76	74	72	68
2	94	85	77	71	90	82	75	69	76	70	66		71	66	62		66	62	59	56
3	85	74	65	58	81	71	63	57	66	60	54		62	56	52		58	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46		55	49	44		51	46	42	39
5	71	58	49	42	68	56	48	41	53	45	40		49	43	38		46	41	36	34
6	66	52	43	37	63	51	42	36	47	40	35		44	38	33		42	36	32	29
7	61	47	38	32	58	46	38	32	43	36	30		41	34	29		38	33	28	26
8	57	43	35	29	54	42	34	28	39	32	27		37	31	26		35	29	25	23
9	53	39	31	26	51	38	31	25	36	29	24		34	28	24		32	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22		32	26	21		30	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29818	29818	29818
5°	29933	28447	28196
10°	29653	27344	26894
15°	29296	26301	25582
20°	28733	25131	23910
25°	28126	23716	21949
30°	27326	22131	20312
35°	26473	20517	19090
40°	25502	19222	18102
45°	24552	18072	17249
50°	23423	17013	16390
55°	22101	15951	15549
60°	20832	14891	14669
65°	19422	13823	13862
70°	17810	12821	13133
75°	15314	11845	12532
80°	12068	10999	12024
85°	8081	10398	11731



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.2	2.6
10°-20°	756.6	7.6
20°-30°	1126.7	11.3
30°-40°	1329.4	13.3
40°-50°	1386.4	13.9
50°-60°	1302.9	13.0
60°-70°	1100.3	11.0
70°-80°	831.4	8.3
80°-90°	573.1	5.7
90°-100°	401.0	4.0
100°-110°	299.3	3.0
110°-120°	225.6	2.3
120°-130°	168.3	1.7
130°-140°	118.1	1.2
140°-150°	71.4	0.7
150°-160°	34.1	0.3
160°-170°	10.9	0.1
170°-180°	1.3	0.0
0°-30°	2146.5	21.5
0°-40°	3475.9	34.8
0°-60°	6165.2	61.7
0°-90°	8670.0	86.7
90°-120°	925.9	9.3
90°-150°	1283.7	12.8
90°-180°	1330.0	13.3
0°-180°	10000.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2770	2770	2770	2770	2770	
5°	2780	2775	2748	2768	2762	264
15°	2658	2670	2677	2711	2706	749
25°	2414	2463	2463	2441	2423	1111
35°	2073	2150	2109	2126	2131	1297
45°	1680	1763	1782	1855	1889	1294
55°	1248	1355	1458	1575	1617	1120
65°	831	963	1126	1273	1322	825
75°	426	590	817	988	1051	453
85°	97	304	566	753	819	108
90°	2	215	473	654	719	7
95°	2	168	400	573	632	1
105°	3	120	309	448	498	3
115°	3	103	239	356	402	4
125°	5	88	202	292	329	5
135°	5	68	168	237	266	4
145°	7	49	117	181	203	4
155°	7	32	71	115	134	3
165°	8	20	37	51	68	2
175°	8	8	10	10	5	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2770.2	2770.2	2770.2	2770.2	2770.2
2.5°	2790.5	2783.7	2753.2	2770.2	2761.7
5°	2780.4	2775.3	2748.1	2768.5	2761.7
7.5°	2761.7	2760.0	2739.7	2763.4	2756.6
10°	2732.9	2738.0	2722.7	2754.9	2749.8
12.5°	2699.0	2709.2	2704.1	2739.7	2734.6
15°	2658.3	2670.2	2676.9	2710.8	2705.8
17.5°	2604.0	2626.1	2641.3	2668.5	2660.0
20°	2546.4	2576.9	2593.9	2607.4	2593.9
22.5°	2483.7	2524.4	2534.5	2527.8	2514.2
25°	2414.2	2463.3	2463.3	2441.3	2422.6
27.5°	2336.2	2397.2	2380.3	2354.8	2339.6
30°	2251.4	2324.3	2295.5	2266.7	2263.3
32.5°	2166.6	2242.9	2200.6	2193.8	2198.9
35°	2073.4	2149.7	2109.0	2126.0	2131.0
37.5°	1980.2	2056.4	2029.3	2054.8	2070.0
40°	1878.4	1959.8	1942.9	1988.6	2009.0
42.5°	1778.4	1863.2	1861.5	1920.8	1951.3
45°	1680.1	1763.2	1781.8	1854.7	1888.6
47.5°	1573.3	1658.0	1703.8	1788.6	1822.5
50°	1468.2	1559.7	1622.4	1717.4	1756.4
52.5°	1359.7	1456.3	1542.8	1647.9	1688.6
55°	1247.8	1354.6	1458.0	1575.0	1617.4
57.5°	1147.7	1256.2	1378.3	1498.7	1547.8
60°	1037.5	1157.9	1291.8	1419.0	1468.2
62.5°	937.5	1061.3	1210.5	1344.4	1397.0
65°	830.7	963.0	1125.7	1273.2	1322.4
67.5°	732.4	868.0	1046.0	1195.2	1249.5
70°	630.7	774.8	968.0	1125.7	1181.7
72.5°	525.6	678.1	890.1	1057.9	1115.5
75°	425.5	590.0	817.2	988.4	1051.1
77.5°	332.3	505.2	751.0	927.4	988.4
80°	240.7	428.9	681.5	864.6	927.4
82.5°	159.4	362.8	625.6	808.7	874.8
85°	96.6	303.5	566.2	752.7	818.8
87.5°	44.1	254.3	518.8	703.6	768.0
90°	1.7	215.3	473.0	654.4	718.8
92.5°	1.7	188.2	435.7	612.0	674.7
95°	1.7	167.8	400.1	573.0	632.4
97.5°	1.7	154.3	373.0	535.7	593.4
100°	1.7	140.7	345.8	501.8	561.2
102.5°	3.4	128.8	325.5	471.3	527.3
105°	3.4	120.4	308.6	447.6	498.4
107.5°	3.4	115.3	289.9	423.8	471.3
110°	3.4	110.2	269.6	400.1	447.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.4	106.8	254.3	379.8	425.5
115°	3.4	103.4	239.0	356.0	401.8
117.5°	3.4	101.7	230.6	337.4	381.5
120°	5.1	96.6	220.4	320.4	362.8
122.5°	5.1	91.5	210.2	306.9	344.2
125°	5.1	88.2	201.7	291.6	328.9
127.5°	5.1	83.1	193.3	278.0	311.9
130°	5.1	78.0	186.5	264.5	296.7
132.5°	5.1	72.9	178.0	250.9	281.4
135°	5.1	67.8	167.8	237.3	266.2
137.5°	5.1	62.7	157.7	223.8	250.9
140°	5.1	57.6	144.1	210.2	235.7
142.5°	5.1	52.6	130.5	196.7	218.7
145°	6.8	49.2	117.0	181.4	203.4
147.5°	6.8	44.1	103.4	166.1	184.8
150°	6.8	40.7	93.2	150.9	167.8
152.5°	6.8	35.6	83.1	133.9	150.9
155°	6.8	32.2	71.2	115.3	133.9
157.5°	6.8	28.8	61.0	96.6	117.0
160°	6.8	27.1	52.6	79.7	100.0
162.5°	8.5	23.7	44.1	64.4	83.1
165°	8.5	20.3	37.3	50.9	67.8
167.5°	8.5	17.0	30.5	39.0	52.6
170°	8.5	13.6	23.7	27.1	40.7
172.5°	8.5	10.2	17.0	18.6	20.3
175°	8.5	8.5	10.2	10.2	5.1
177.5°	8.5	8.5	6.8	5.1	1.7
180°	5.1	5.1	5.1	5.1	5.1

(END OF REPORT)