

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: P566876

Luminaire Tested: **4SNX-84HL-LN-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566876
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-84HL-LN-UNV-L940-CD
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

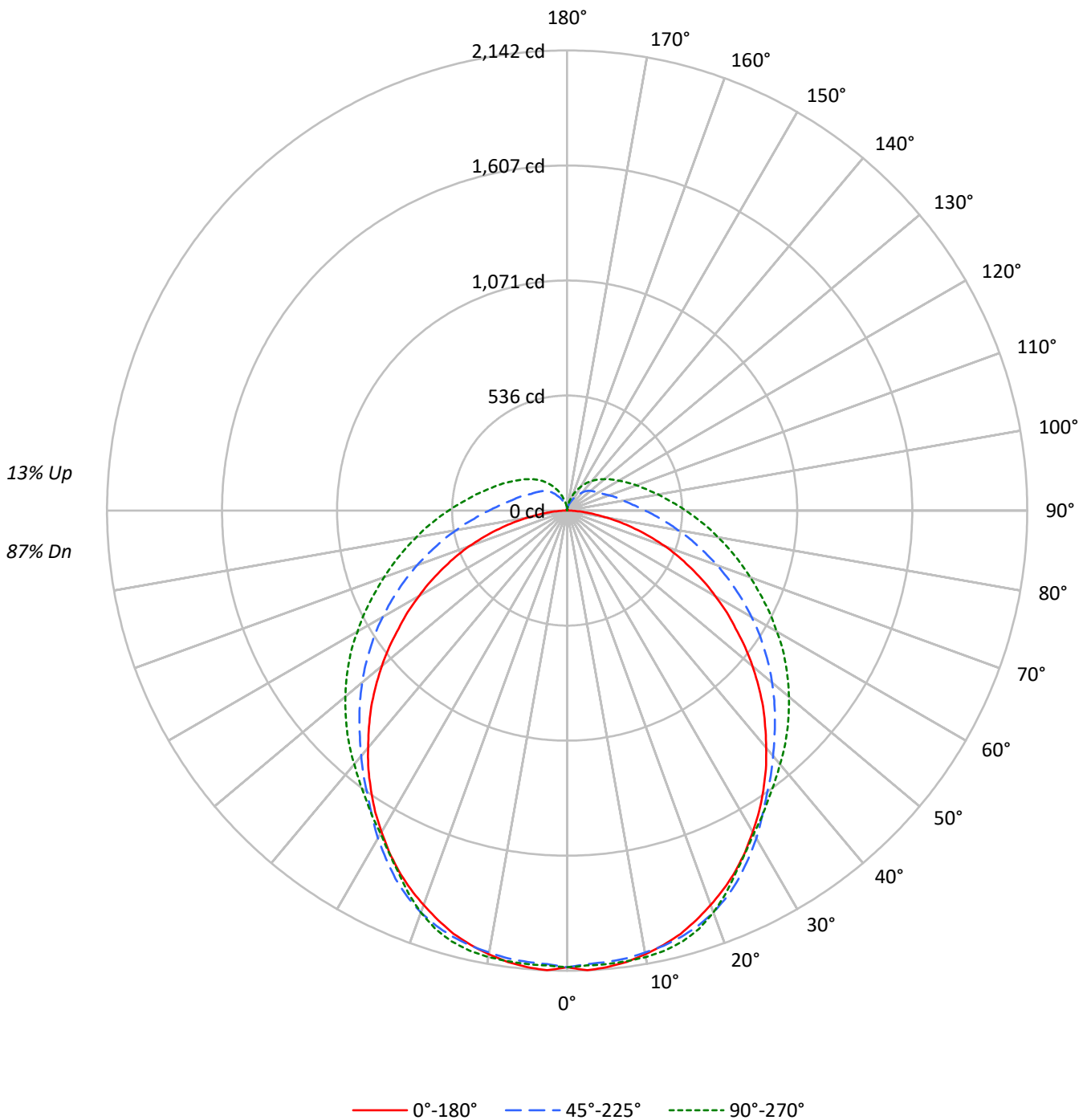
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7674.0 lumens
Efficiency: N/A
Efficacy: 132.5 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): 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	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°	22882	22882	22882
5°	22970	21830	21637
10°	22755	20984	20638
15°	22482	20184	19632
20°	22049	19285	18348
25°	21583	18201	16844
30°	20969	16984	15587
35°	20315	15744	14651
40°	19571	14751	13892
45°	18841	13869	13237
50°	17975	13056	12577
55°	16960	12241	11932
60°	15987	11428	11257
65°	14905	10608	10638
70°	13668	9840	10078
75°	11755	9089	9617
80°	9261	8441	9226
85°	6207	7979	9003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.9	2.6
10°-20°	580.6	7.6
20°-30°	864.6	11.3
30°-40°	1020.2	13.3
40°-50°	1064.0	13.9
50°-60°	999.8	13.0
60°-70°	844.4	11.0
70°-80°	638.0	8.3
80°-90°	439.8	5.7
90°-100°	307.8	4.0
100°-110°	229.7	3.0
110°-120°	173.1	2.3
120°-130°	129.1	1.7
130°-140°	90.6	1.2
140°-150°	54.8	0.7
150°-160°	26.2	0.3
160°-170°	8.4	0.1
170°-180°	1.0	0.0
0°-30°	1647.2	21.5
0°-40°	2667.4	34.8
0°-60°	4731.2	61.7
0°-90°	6653.3	86.7
90°-120°	710.6	9.3
90°-150°	985.1	12.8
90°-180°	1021.0	13.3
0°-180°	7674.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2126	2126	2126	2126	2126	
5°	2134	2130	2109	2124	2119	202
15°	2040	2049	2054	2080	2076	574
25°	1853	1890	1890	1873	1859	852
35°	1591	1650	1618	1632	1635	995
45°	1289	1353	1367	1423	1449	993
55°	958	1040	1119	1209	1241	859
65°	638	739	864	977	1015	633
75°	327	453	627	758	807	348
85°	74	233	434	578	628	83
90°	1	165	363	502	552	5
95°	1	129	307	440	485	1
105°	3	92	237	344	382	3
115°	3	79	183	273	308	3
125°	4	68	155	224	252	3
135°	4	52	129	182	204	3
145°	5	38	90	139	156	3
155°	5	25	55	88	103	2
165°	6	16	29	39	52	2
175°	6	6	8	8	4	1
180°	4	4	4	4	4	



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CATALOG NUMBER: 4SNX-84HL-LN-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2125.8	2125.8	2125.8	2125.8	2125.8
2.5°	2141.5	2136.2	2112.8	2125.8	2119.3
5°	2133.6	2129.7	2108.9	2124.5	2119.3
7.5°	2119.3	2118.0	2102.4	2120.6	2115.4
10°	2097.2	2101.1	2089.4	2114.1	2110.2
12.5°	2071.2	2079.0	2075.1	2102.4	2098.5
15°	2040.0	2049.1	2054.3	2080.3	2076.4
17.5°	1998.3	2015.3	2027.0	2047.8	2041.3
20°	1954.1	1977.5	1990.5	2000.9	1990.5
22.5°	1906.0	1937.2	1945.0	1939.8	1929.4
25°	1852.6	1890.4	1890.4	1873.4	1859.1
27.5°	1792.8	1839.6	1826.6	1807.1	1795.4
30°	1727.7	1783.7	1761.6	1739.4	1736.8
32.5°	1662.7	1721.2	1688.7	1683.5	1687.4
35°	1591.1	1649.7	1618.4	1631.5	1635.4
37.5°	1519.6	1578.1	1557.3	1576.8	1588.5
40°	1441.5	1504.0	1491.0	1526.1	1541.7
42.5°	1364.8	1429.8	1428.5	1474.0	1497.5
45°	1289.3	1353.0	1367.4	1423.3	1449.3
47.5°	1207.3	1272.4	1307.5	1372.6	1398.6
50°	1126.7	1196.9	1245.1	1317.9	1347.8
52.5°	1043.4	1117.6	1183.9	1264.6	1295.8
55°	957.5	1039.5	1118.9	1208.6	1241.2
57.5°	880.8	964.0	1057.7	1150.1	1187.8
60°	796.2	888.6	991.4	1088.9	1126.7
62.5°	719.5	814.4	928.9	1031.7	1072.0
65°	637.5	739.0	863.9	977.1	1014.8
67.5°	562.0	666.1	802.7	917.2	958.8
70°	484.0	594.6	742.9	863.9	906.8
72.5°	403.3	520.4	683.0	811.8	856.1
75°	326.6	452.7	627.1	758.5	806.6
77.5°	255.0	387.7	576.3	711.6	758.5
80°	184.7	329.2	523.0	663.5	711.6
82.5°	122.3	278.4	480.1	620.6	671.3
85°	74.2	232.9	434.5	577.6	628.4
87.5°	33.8	195.2	398.1	539.9	589.4
90°	1.3	165.2	363.0	502.2	551.6
92.5°	1.3	144.4	334.4	469.7	517.8
95°	1.3	128.8	307.0	439.7	485.3
97.5°	1.3	118.4	286.2	411.1	455.4
100°	1.3	108.0	265.4	385.1	430.6
102.5°	2.6	98.9	249.8	361.7	404.6
105°	2.6	92.4	236.8	343.5	382.5
107.5°	2.6	88.5	222.5	325.3	361.7
110°	2.6	84.6	206.9	307.0	343.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.6	82.0	195.2	291.4	326.6
115°	2.6	79.4	183.4	273.2	308.3
117.5°	2.6	78.1	176.9	258.9	292.7
120°	3.9	74.2	169.1	245.9	278.4
122.5°	3.9	70.3	161.3	235.5	264.1
125°	3.9	67.7	154.8	223.8	252.4
127.5°	3.9	63.7	148.3	213.4	239.4
130°	3.9	59.8	143.1	203.0	227.7
132.5°	3.9	55.9	136.6	192.5	216.0
135°	3.9	52.0	128.8	182.1	204.3
137.5°	3.9	48.1	121.0	171.7	192.5
140°	3.9	44.2	110.6	161.3	180.8
142.5°	3.9	40.3	100.2	150.9	167.8
145°	5.2	37.7	89.8	139.2	156.1
147.5°	5.2	33.8	79.4	127.5	141.8
150°	5.2	31.2	71.6	115.8	128.8
152.5°	5.2	27.3	63.7	102.8	115.8
155°	5.2	24.7	54.6	88.5	102.8
157.5°	5.2	22.1	46.8	74.2	89.8
160°	5.2	20.8	40.3	61.1	76.8
162.5°	6.5	18.2	33.8	49.4	63.7
165°	6.5	15.6	28.6	39.0	52.0
167.5°	6.5	13.0	23.4	29.9	40.3
170°	6.5	10.4	18.2	20.8	31.2
172.5°	6.5	7.8	13.0	14.3	15.6
175°	6.5	6.5	7.8	7.8	3.9
177.5°	6.5	6.5	5.2	3.9	1.3
180°	3.9	3.9	3.9	3.9	3.9

(END OF REPORT)