

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: P566009

Luminaire Tested: **4SNX-104HL-LN-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566009
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-104HL-LN-UNV-L850-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

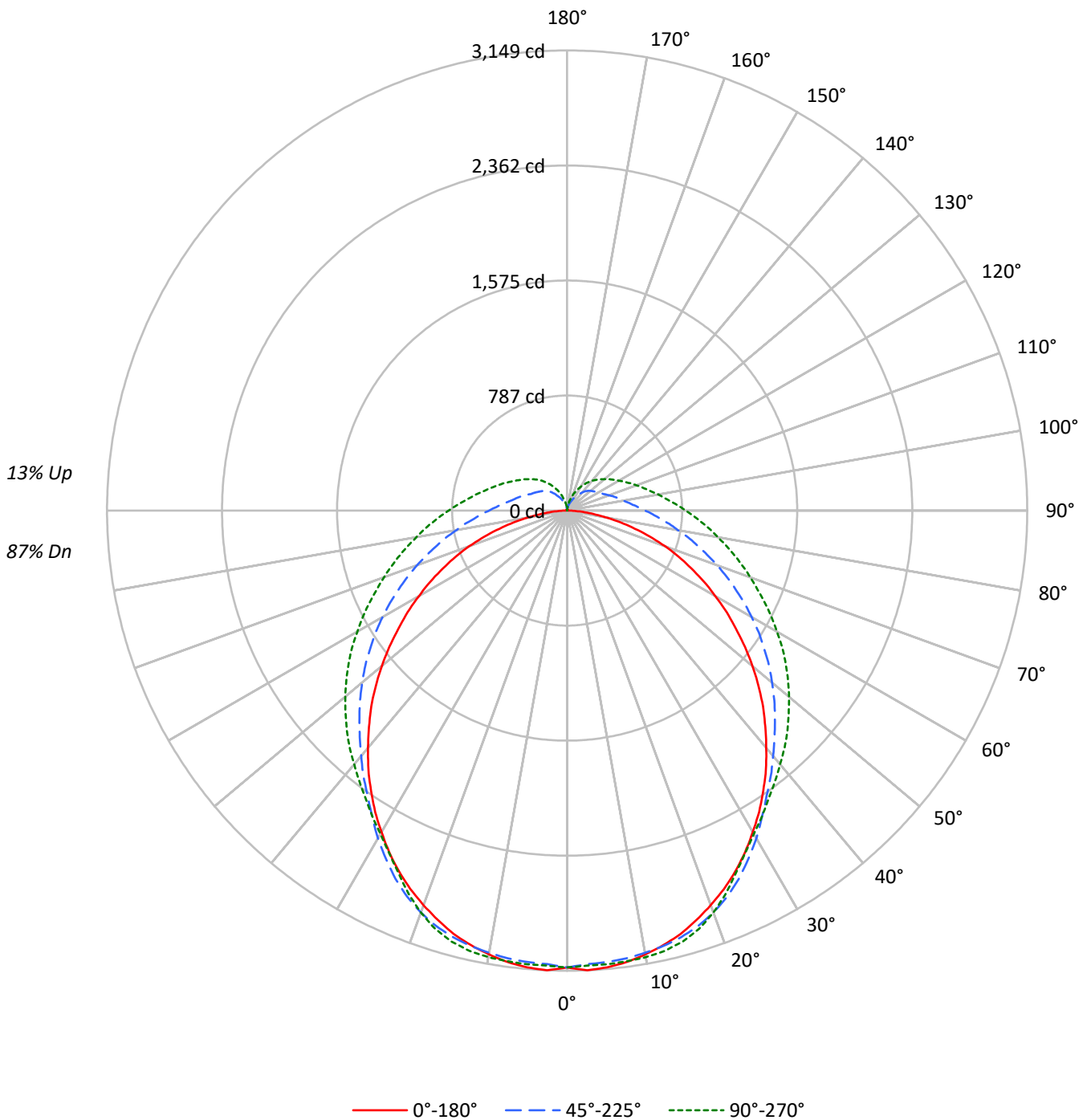
Lumens per Lamp: N/A
Luminaire Lumens: 11285.0 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 75.5
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	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°	33650	33650	33650
5°	33779	32103	31819
10°	33463	30858	30350
15°	33061	29680	28870
20°	32425	28360	26983
25°	31740	26765	24770
30°	30837	24975	22922
35°	29874	23154	21544
40°	28780	21691	20428
45°	27707	20394	19466
50°	26432	19199	18496
55°	24941	18000	17546
60°	23510	16806	16553
65°	21919	15600	15643
70°	20098	14469	14821
75°	17283	13367	14143
80°	13623	12413	13568
85°	9127	11735	13240



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.0	2.6
10°-20°	853.9	7.6
20°-30°	1271.5	11.3
30°-40°	1500.3	13.3
40°-50°	1564.6	13.9
50°-60°	1470.3	13.0
60°-70°	1241.7	11.0
70°-80°	938.2	8.3
80°-90°	646.7	5.7
90°-100°	452.6	4.0
100°-110°	337.7	3.0
110°-120°	254.6	2.3
120°-130°	189.9	1.7
130°-140°	133.3	1.2
140°-150°	80.6	0.7
150°-160°	38.5	0.3
160°-170°	12.3	0.1
170°-180°	1.5	0.0
0°-30°	2422.3	21.5
0°-40°	3922.5	34.8
0°-60°	6957.4	61.7
0°-90°	9784.0	86.7
90°-120°	1044.9	9.3
90°-150°	1448.6	12.8
90°-180°	1501.0	13.3
0°-180°	11285.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3126	3126	3126	3126	3126	
5°	3138	3132	3101	3124	3117	298
15°	3000	3013	3021	3059	3054	845
25°	2724	2780	2780	2755	2734	1253
35°	2340	2426	2380	2399	2405	1463
45°	1896	1990	2011	2093	2131	1460
55°	1408	1529	1645	1777	1825	1263
65°	938	1087	1270	1437	1492	931
75°	480	666	922	1115	1186	511
85°	109	342	639	850	924	122
90°	2	243	534	738	811	8
95°	2	189	452	647	714	2
105°	4	136	348	505	562	4
115°	4	117	270	402	453	4
125°	6	100	228	329	371	5
135°	6	76	189	268	300	4
145°	8	56	132	205	230	4
155°	8	36	80	130	151	4
165°	10	23	42	57	76	3
175°	10	10	12	12	6	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3126.2	3126.2	3126.2	3126.2	3126.2
2.5°	3149.1	3141.5	3107.0	3126.2	3116.6
5°	3137.6	3131.9	3101.3	3124.2	3116.6
7.5°	3116.6	3114.7	3091.7	3118.5	3110.8
10°	3084.1	3089.8	3072.6	3108.9	3103.2
12.5°	3045.8	3057.3	3051.5	3091.7	3086.0
15°	2999.9	3013.3	3020.9	3059.2	3053.5
17.5°	2938.7	2963.5	2980.8	3011.4	3001.8
20°	2873.6	2908.1	2927.2	2942.5	2927.2
22.5°	2802.8	2848.7	2860.2	2852.6	2837.3
25°	2724.4	2779.9	2779.9	2755.0	2734.0
27.5°	2636.4	2705.3	2686.1	2657.4	2640.2
30°	2540.7	2623.0	2590.5	2557.9	2554.1
32.5°	2445.1	2531.2	2483.3	2475.7	2481.4
35°	2339.8	2425.9	2380.0	2399.1	2404.9
37.5°	2234.6	2320.7	2290.1	2318.8	2336.0
40°	2119.8	2211.6	2192.5	2244.2	2267.1
42.5°	2006.9	2102.6	2100.7	2167.6	2202.1
45°	1896.0	1989.7	2010.8	2093.0	2131.3
47.5°	1775.4	1871.1	1922.8	2018.4	2056.7
50°	1656.8	1760.1	1830.9	1938.1	1982.1
52.5°	1534.4	1643.4	1741.0	1859.6	1905.5
55°	1408.1	1528.6	1645.3	1777.4	1825.2
57.5°	1295.2	1417.7	1555.4	1691.3	1746.7
60°	1170.9	1306.7	1457.9	1601.3	1656.8
62.5°	1058.0	1197.7	1366.0	1517.2	1576.5
65°	937.5	1086.7	1270.4	1436.8	1492.3
67.5°	826.5	979.6	1180.4	1348.8	1410.0
70°	711.7	874.3	1092.4	1270.4	1333.5
72.5°	593.1	765.3	1004.4	1193.8	1258.9
75°	480.2	665.8	922.2	1115.4	1186.2
77.5°	375.0	570.1	847.5	1046.5	1115.4
80°	271.7	484.0	769.1	975.7	1046.5
82.5°	179.8	409.4	706.0	912.6	987.2
85°	109.1	342.5	639.0	849.5	924.1
87.5°	49.7	287.0	585.4	794.0	866.7
90°	1.9	243.0	533.8	738.5	811.2
92.5°	1.9	212.4	491.7	690.7	761.5
95°	1.9	189.4	451.5	646.7	713.6
97.5°	1.9	174.1	420.9	604.6	669.6
100°	1.9	158.8	390.3	566.3	633.3
102.5°	3.8	145.4	367.3	531.9	595.0
105°	3.8	135.8	348.2	505.1	562.5
107.5°	3.8	130.1	327.2	478.3	531.9
110°	3.8	124.4	304.2	451.5	505.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.8	120.5	287.0	428.6	480.2
115°	3.8	116.7	269.8	401.8	453.4
117.5°	3.8	114.8	260.2	380.7	430.5
120°	5.7	109.1	248.7	361.6	409.4
122.5°	5.7	103.3	237.2	346.3	388.4
125°	5.7	99.5	227.7	329.1	371.2
127.5°	5.7	93.7	218.1	313.8	352.0
130°	5.7	88.0	210.5	298.5	334.8
132.5°	5.7	82.3	200.9	283.2	317.6
135°	5.7	76.5	189.4	267.8	300.4
137.5°	5.7	70.8	177.9	252.5	283.2
140°	5.7	65.0	162.6	237.2	265.9
142.5°	5.7	59.3	147.3	221.9	246.8
145°	7.7	55.5	132.0	204.7	229.6
147.5°	7.7	49.7	116.7	187.5	208.5
150°	7.7	45.9	105.2	170.3	189.4
152.5°	7.7	40.2	93.7	151.1	170.3
155°	7.7	36.4	80.4	130.1	151.1
157.5°	7.7	32.5	68.9	109.1	132.0
160°	7.7	30.6	59.3	89.9	112.9
162.5°	9.6	26.8	49.7	72.7	93.7
165°	9.6	23.0	42.1	57.4	76.5
167.5°	9.6	19.1	34.4	44.0	59.3
170°	9.6	15.3	26.8	30.6	45.9
172.5°	9.6	11.5	19.1	21.0	23.0
175°	9.6	9.6	11.5	11.5	5.7
177.5°	9.6	9.6	7.7	5.7	1.9
180°	5.7	5.7	5.7	5.7	5.7

(END OF REPORT)