

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: P566014

Luminaire Tested: **4SNX-104HL-LW-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566014
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-104HL-LW-UNV-L830-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

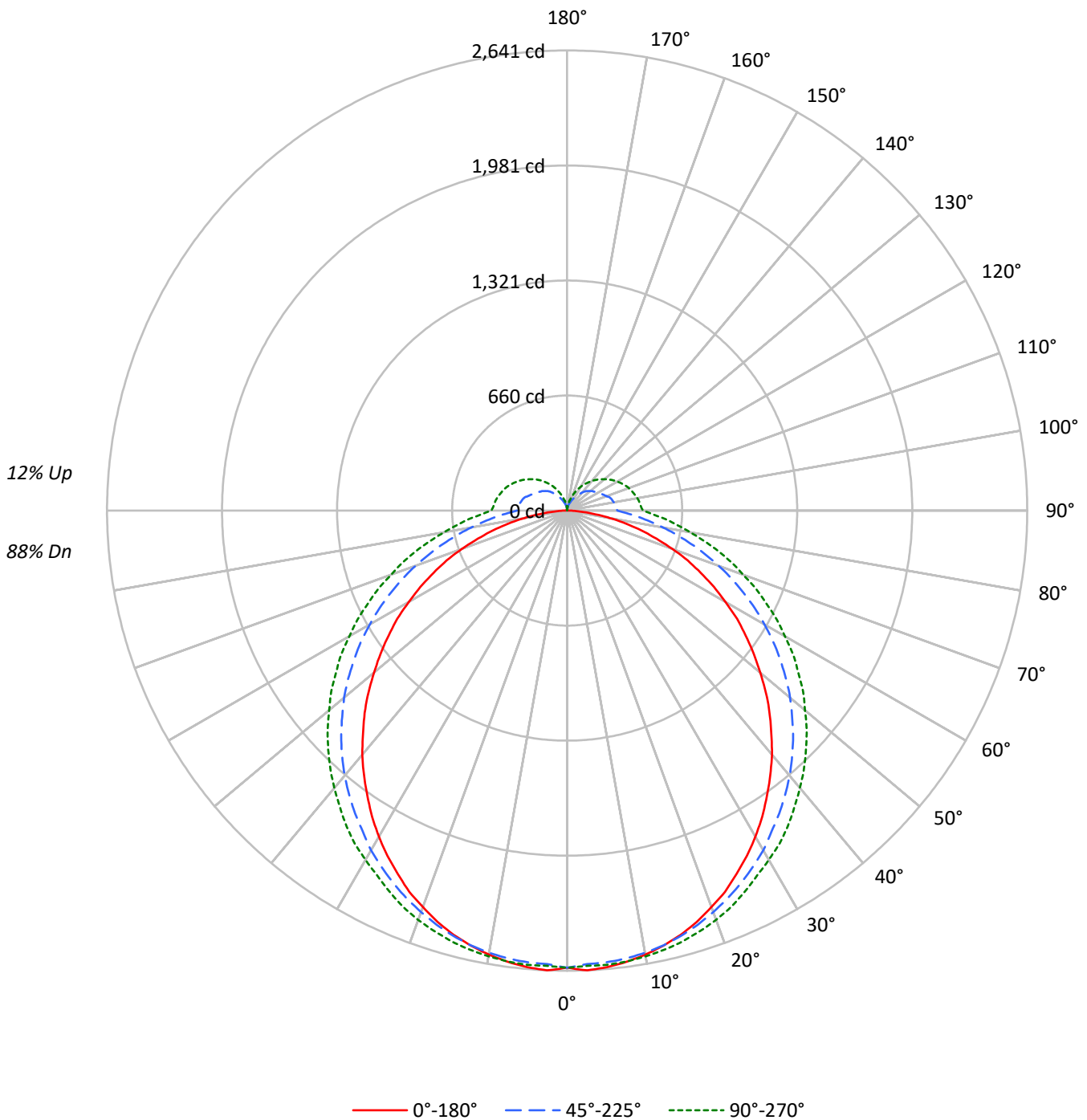
Lumens per Lamp: N/A
Luminaire Lumens: 9445.0 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

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	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°	28239	28239	28239
5°	28313	26939	26718
10°	28079	25877	25405
15°	27771	24822	24208
20°	27321	23756	23050
25°	26796	22720	21864
30°	26227	21706	20772
35°	25524	20645	19793
40°	24836	19650	18728
45°	24014	18603	17712
50°	23069	17520	16633
55°	22146	16333	15564
60°	21077	15084	14414
65°	19777	13724	13225
70°	18132	12254	11937
75°	15833	10643	10703
80°	12650	9032	9290
85°	8115	7485	8111



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.1	2.6
10°-20°	716.4	7.6
20°-30°	1089.9	11.5
30°-40°	1325.2	14.0
40°-50°	1402.0	14.8
50°-60°	1314.2	13.9
60°-70°	1081.2	11.4
70°-80°	748.1	7.9
80°-90°	416.0	4.4
90°-100°	274.0	2.9
100°-110°	245.7	2.6
110°-120°	203.4	2.2
120°-130°	157.2	1.7
130°-140°	111.3	1.2
140°-150°	67.1	0.7
150°-160°	32.2	0.3
160°-170°	10.6	0.1
170°-180°	1.3	0.0
0°-30°	2055.4	21.8
0°-40°	3380.6	35.8
0°-60°	6096.8	64.6
0°-90°	8342.0	88.3
90°-120°	723.2	7.7
90°-150°	1058.9	11.2
90°-180°	1103.0	11.7
0°-180°	9445.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2624	2624	2624	2624	2624	
5°	2630	2625	2602	2624	2617	250
15°	2520	2528	2526	2560	2560	710
25°	2300	2332	2360	2412	2413	1060
35°	1999	2052	2122	2190	2209	1251
45°	1643	1729	1834	1917	1939	1267
55°	1250	1362	1493	1587	1619	1119
65°	846	967	1118	1228	1262	839
75°	440	568	734	851	898	467
85°	97	241	408	521	566	112
90°	2	136	288	396	435	6
95°	2	129	280	383	420	1
105°	2	112	262	361	393	2
115°	3	97	222	320	356	3
125°	3	82	189	273	307	3
135°	3	65	158	225	252	2
145°	3	47	110	170	191	2
155°	5	32	68	108	126	2
165°	5	21	37	50	65	1
175°	5	8	11	11	6	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2623.5	2623.5	2623.5	2623.5	2623.5
2.5°	2641.2	2633.2	2605.7	2623.5	2615.4
5°	2629.9	2625.1	2602.4	2623.5	2617.0
7.5°	2612.1	2610.5	2592.7	2617.0	2610.5
10°	2587.9	2591.1	2576.6	2602.4	2597.6
12.5°	2557.1	2562.0	2555.5	2584.6	2581.4
15°	2519.9	2528.0	2526.4	2560.4	2560.4
17.5°	2474.7	2486.0	2492.4	2531.3	2531.3
20°	2421.3	2439.1	2452.0	2494.1	2500.5
22.5°	2367.9	2388.9	2408.3	2452.0	2461.7
25°	2300.0	2332.3	2359.8	2411.6	2413.2
27.5°	2233.7	2269.2	2306.4	2356.6	2361.4
30°	2160.9	2206.2	2251.4	2300.0	2314.5
32.5°	2083.2	2133.4	2183.5	2248.2	2267.6
35°	1999.1	2052.5	2122.1	2190.0	2209.4
37.5°	1915.0	1974.9	2055.7	2125.3	2143.1
40°	1829.3	1895.6	1986.2	2057.4	2078.4
42.5°	1733.9	1814.7	1911.8	1987.8	2012.1
45°	1643.3	1729.0	1834.2	1916.6	1939.3
47.5°	1547.9	1638.4	1751.7	1839.0	1864.9
50°	1446.0	1549.5	1670.8	1758.1	1782.4
52.5°	1350.5	1455.7	1583.5	1674.0	1708.0
55°	1250.3	1361.9	1492.9	1586.7	1619.0
57.5°	1156.5	1263.2	1403.9	1497.7	1538.2
60°	1049.7	1167.8	1308.5	1410.4	1442.7
62.5°	949.4	1069.1	1214.7	1319.8	1357.0
65°	845.9	967.2	1117.6	1227.6	1261.6
67.5°	748.9	868.6	1022.2	1130.6	1174.2
70°	642.1	768.3	925.2	1036.8	1074.0
72.5°	537.0	668.0	828.1	947.8	989.9
75°	439.9	567.7	734.3	850.8	897.7
77.5°	346.1	475.5	643.7	763.4	803.9
80°	252.3	388.2	559.6	677.7	716.5
82.5°	166.6	308.9	478.8	596.8	638.9
85°	97.0	241.0	407.6	520.8	566.1
87.5°	42.1	182.8	341.3	452.9	490.1
90°	1.6	135.9	287.9	396.3	435.1
92.5°	1.6	132.6	281.4	388.2	425.4
95°	1.6	129.4	279.8	383.3	420.5
97.5°	1.6	127.8	276.6	380.1	415.7
100°	1.6	122.9	271.7	373.6	409.2
102.5°	1.6	116.5	266.9	367.2	401.1
105°	1.6	111.6	262.0	360.7	393.0
107.5°	1.6	106.7	253.9	352.6	384.9
110°	1.6	101.9	241.0	344.5	376.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	100.3	231.3	333.2	367.2
115°	3.2	97.0	221.6	320.2	355.8
117.5°	3.2	95.4	213.5	307.3	344.5
120°	3.2	90.6	205.4	296.0	331.6
122.5°	3.2	85.7	197.3	284.7	320.2
125°	3.2	82.5	189.2	273.3	307.3
127.5°	3.2	77.6	182.8	262.0	292.8
130°	3.2	74.4	174.7	249.1	279.8
132.5°	3.2	69.5	166.6	236.1	265.3
135°	3.2	64.7	158.5	224.8	252.3
137.5°	3.2	58.2	148.8	211.9	237.8
140°	3.2	53.4	135.9	198.9	223.2
142.5°	3.2	50.1	122.9	184.4	207.0
145°	3.2	46.9	110.0	169.8	190.9
147.5°	3.2	43.7	98.7	155.3	174.7
150°	3.2	38.8	87.3	142.3	158.5
152.5°	4.9	35.6	77.6	126.2	142.3
155°	4.9	32.3	67.9	108.4	126.2
157.5°	4.9	29.1	58.2	90.6	110.0
160°	4.9	25.9	50.1	74.4	93.8
162.5°	4.9	24.3	43.7	61.5	79.3
165°	4.9	21.0	37.2	50.1	64.7
167.5°	4.9	16.2	30.7	38.8	53.4
170°	4.9	12.9	24.3	27.5	40.4
172.5°	4.9	9.7	17.8	19.4	21.0
175°	4.9	8.1	11.3	11.3	6.5
177.5°	4.9	6.5	6.5	6.5	3.2
180°	3.2	3.2	3.2	3.2	3.2

(END OF REPORT)