

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: P#

Luminaire Tested: **4SNLED-LD5-60HL-SLC-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-60HL-SLC-UNV-L830-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

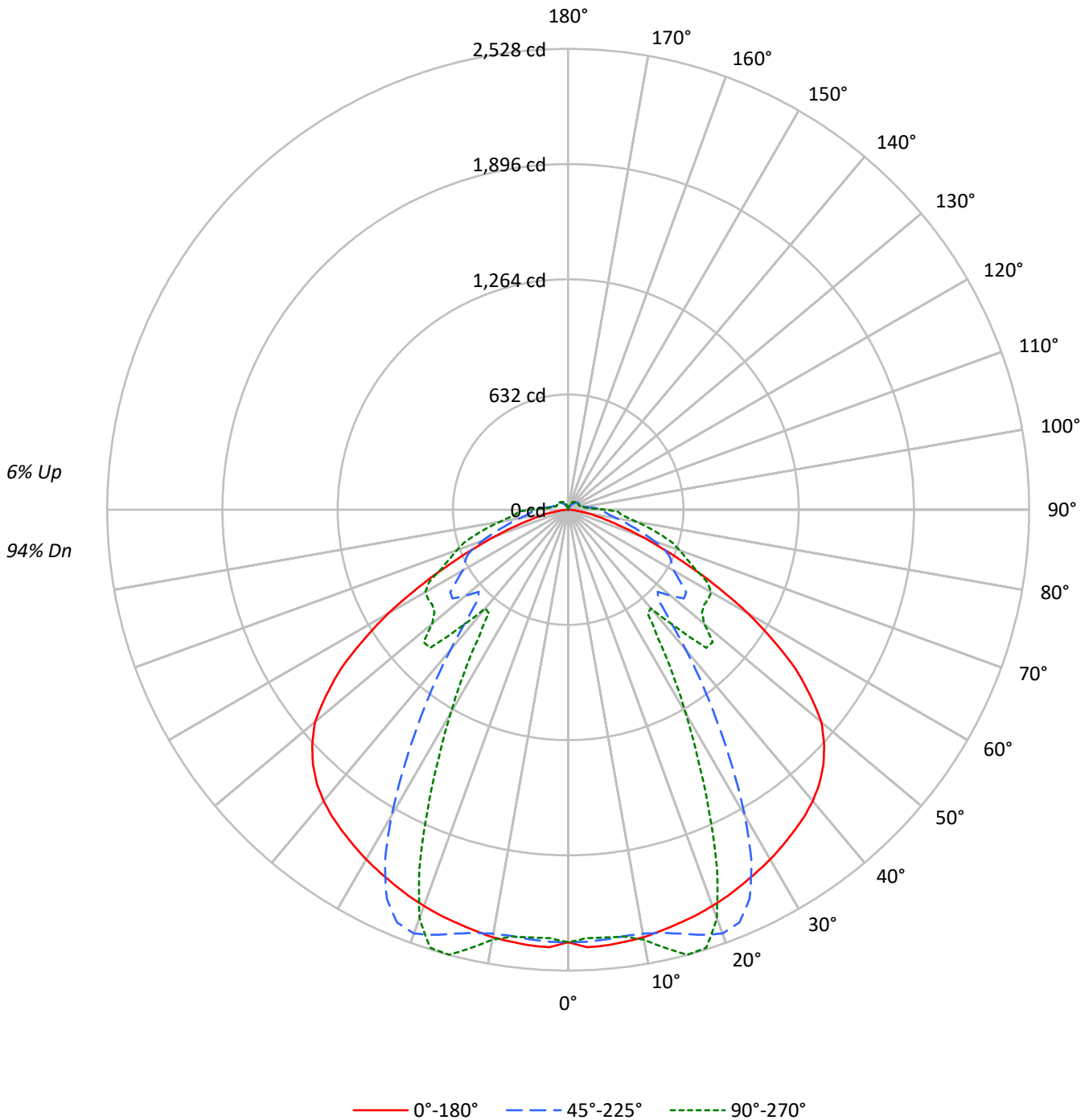
Lumens per Lamp: N/A
Luminaire Lumens: 6096.0 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 43
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19177	19177	19177
5°	19411	18728	18498
10°	19435	18443	18434
15°	19489	18703	19213
20°	19669	19260	18034
25°	19914	18509	13886
30°	20307	15503	9877
35°	20811	11741	6688
40°	21446	8535	5663
45°	21933	6191	8903
50°	21963	6856	8450
55°	20530	7890	8344
60°	17492	7220	8869
65°	13159	7281	8113
70°	9235	6628	7551
75°	6051	5553	6777
80°	3862	4757	5640
85°	2084	4523	5063



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.8	3.7
10°-20°	681.8	11.2
20°-30°	990.4	16.2
30°-40°	946.3	15.5
40°-50°	865.6	14.2
50°-60°	799.3	13.1
60°-70°	634.9	10.4
70°-80°	391.9	6.4
80°-90°	213.4	3.5
90°-100°	107.9	1.8
100°-110°	67.8	1.1
110°-120°	57.4	0.9
120°-130°	46.9	0.8
130°-140°	33.6	0.6
140°-150°	20.7	0.3
150°-160°	9.9	0.2
160°-170°	2.6	0.0
170°-180°	0.0	0.0
0°-30°	1898.0	31.1
0°-40°	2844.3	46.7
0°-60°	4509.2	74.0
0°-90°	5749.3	94.3
90°-120°	233.0	3.8
90°-150°	334.3	5.5
90°-180°	347.0	5.7
0°-180°	6096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2373	2373	2373	2373	2373	
5°	2399	2363	2367	2354	2355	228
15°	2349	2317	2408	2497	2528	665
25°	2266	2310	2354	1993	1830	1047
35°	2156	2121	1430	984	856	1352
45°	1979	1380	698	890	1072	1521
55°	1522	708	790	850	910	1341
65°	734	459	616	748	766	743
75°	216	245	369	488	521	245
85°	30	104	209	285	289	39
90°	1	78	187	222	205	2
95°	0	72	129	114	108	0
105°	0	65	80	72	71	0
115°	0	54	77	68	65	1
125°	1	43	68	66	63	1
135°	1	30	55	60	58	1
145°	1	19	38	48	52	1
155°	2	12	23	30	37	1
165°	2	6	12	15	20	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2373.1	2373.1	2373.1	2373.1	2373.1
2.5°	2402.5	2367.9	2372.1	2364.7	2352.1
5°	2399.4	2362.6	2366.8	2354.2	2355.3
7.5°	2391.0	2353.2	2358.4	2356.3	2361.6
10°	2381.5	2341.6	2361.6	2379.4	2395.2
12.5°	2364.7	2329.0	2377.3	2429.8	2462.4
15°	2349.0	2317.4	2407.8	2497.1	2527.5
17.5°	2333.2	2313.2	2445.6	2523.3	2519.1
20°	2313.2	2311.1	2474.0	2447.7	2383.6
22.5°	2291.2	2312.2	2451.9	2259.7	2133.6
25°	2266.0	2310.1	2354.2	1992.8	1830.0
27.5°	2240.7	2300.6	2176.7	1700.8	1540.1
30°	2215.5	2275.4	1937.2	1434.0	1287.9
32.5°	2186.1	2220.8	1676.6	1197.6	1063.1
35°	2155.7	2121.0	1429.8	984.3	856.2
37.5°	2124.1	1977.1	1208.1	797.3	715.4
40°	2086.3	1796.4	1004.3	683.9	705.9
42.5°	2039.1	1592.6	824.7	717.5	870.9
45°	1979.2	1380.4	697.5	889.8	1071.5
47.5°	1903.5	1176.6	666.0	1019.0	1075.7
50°	1812.1	989.6	732.2	977.0	972.8
52.5°	1673.5	834.1	799.4	890.8	924.5
55°	1522.2	708.0	790.0	849.9	909.7
57.5°	1331.0	623.0	724.9	841.5	910.8
60°	1140.9	566.2	669.2	840.4	905.5
62.5°	930.8	514.8	640.8	820.5	859.3
65°	734.3	459.1	615.6	748.0	765.8
67.5°	563.1	402.3	571.5	667.1	702.8
70°	424.4	346.7	502.1	605.1	649.2
72.5°	305.7	294.1	430.7	550.5	596.7
75°	216.4	244.8	368.7	488.5	521.1
77.5°	149.2	199.6	316.2	420.2	446.5
80°	97.7	159.7	268.9	361.4	379.2
82.5°	58.8	128.2	233.2	316.2	325.7
85°	30.5	104.0	209.1	284.7	288.9
87.5°	9.5	87.2	195.4	270.0	275.2
90°	1.1	77.7	187.0	221.7	204.9
92.5°	0.0	73.5	161.8	151.3	135.5
95°	0.0	72.5	129.2	114.5	108.2
97.5°	0.0	70.4	106.1	95.6	92.4
100°	0.0	68.3	91.4	84.0	83.0
102.5°	0.0	67.2	83.0	76.7	75.6
105°	0.0	65.1	79.8	72.5	71.4
107.5°	0.0	62.0	77.7	70.4	68.3
110°	0.0	58.8	77.7	69.3	66.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	55.7	77.7	68.3	65.1
115°	0.0	53.6	76.7	68.3	65.1
117.5°	1.1	51.5	75.6	68.3	65.1
120°	0.0	49.4	73.5	68.3	64.1
122.5°	1.1	46.2	71.4	67.2	64.1
125°	1.1	43.1	68.3	66.2	63.0
127.5°	1.1	39.9	65.1	64.1	60.9
130°	1.1	36.8	62.0	63.0	59.9
132.5°	1.1	33.6	57.8	60.9	58.8
135°	1.1	30.5	54.6	59.9	57.8
137.5°	1.1	27.3	50.4	56.7	56.7
140°	1.1	24.2	46.2	54.6	55.7
142.5°	1.1	22.1	42.0	52.5	53.6
145°	1.1	18.9	37.8	48.3	51.5
147.5°	1.1	16.8	33.6	44.1	48.3
150°	1.1	14.7	29.4	39.9	44.1
152.5°	1.1	12.6	26.3	34.7	41.0
155°	2.1	11.6	23.1	30.5	36.8
157.5°	2.1	9.5	18.9	26.3	31.5
160°	2.1	8.4	16.8	22.1	28.4
162.5°	2.1	7.4	13.7	18.9	24.2
165°	2.1	6.3	11.6	14.7	20.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)