

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-LD5-64HL-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-LD5-64HL-SLC-UNV-L830-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

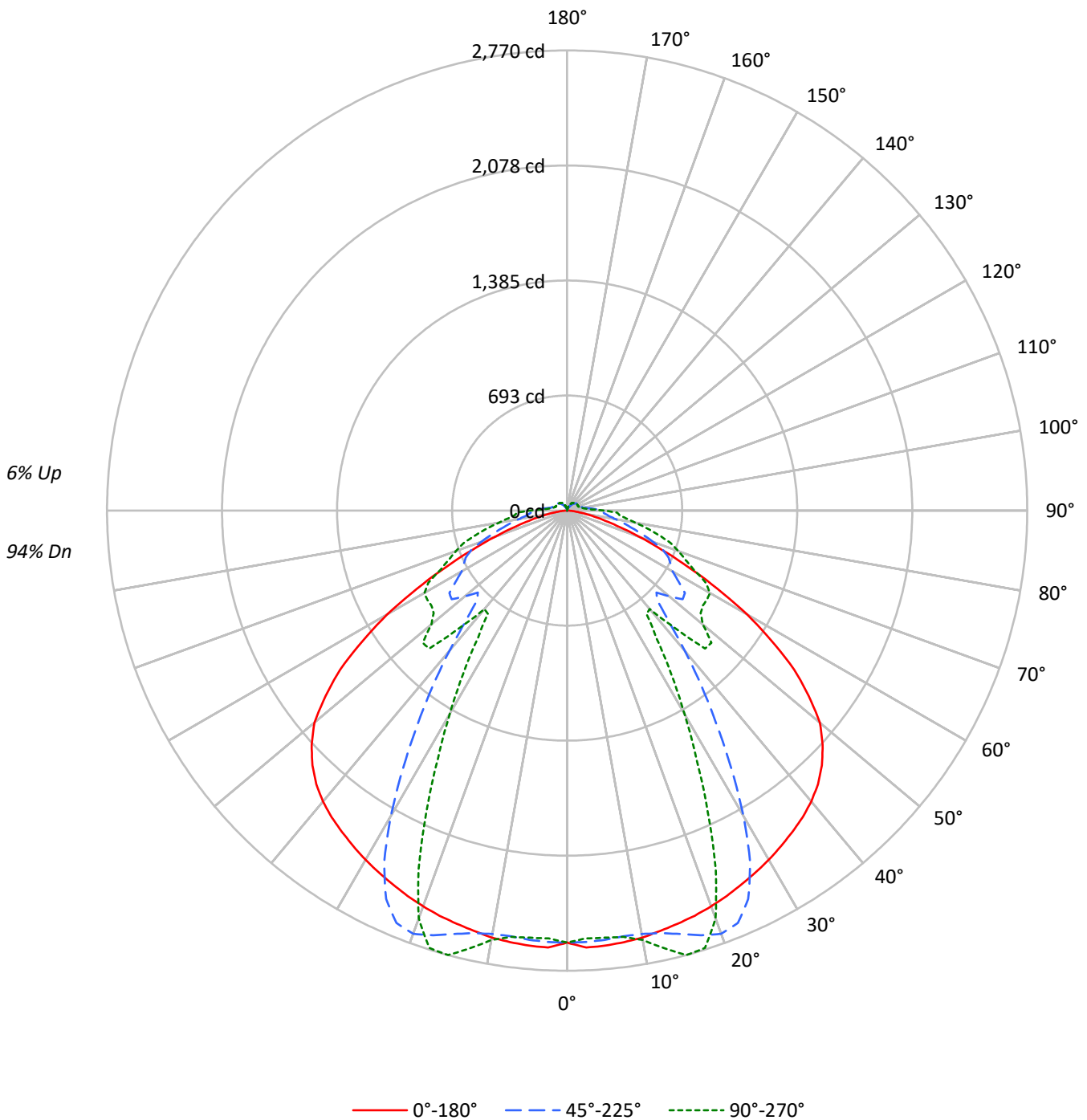
Lumens per Lamp: N/A  
Luminaire Lumens: 6680.1 lumens  
Efficiency: N/A  
Efficacy: 139.2 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 48  
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°	21015	21015	21015
5°	21270	20523	20270
10°	21297	20210	20200
15°	21355	20494	21054
20°	21553	21105	19762
25°	21821	20282	15217
30°	22253	16987	10823
35°	22804	12865	7329
40°	23501	9353	6206
45°	24035	6785	9757
50°	24068	7513	9259
55°	22496	8646	9143
60°	19168	7912	9719
65°	14421	7979	8890
70°	10120	7264	8275
75°	6630	6086	7426
80°	4234	5213	6181
85°	2282	4956	5549



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.4	3.7
10°-20°	747.1	11.2
20°-30°	1085.3	16.2
30°-40°	1037.0	15.5
40°-50°	948.6	14.2
50°-60°	875.8	13.1
60°-70°	695.7	10.4
70°-80°	429.4	6.4
80°-90°	233.8	3.5
90°-100°	118.2	1.8
100°-110°	74.3	1.1
110°-120°	62.9	0.9
120°-130°	51.4	0.8
130°-140°	36.9	0.6
140°-150°	22.7	0.3
150°-160°	10.8	0.2
160°-170°	2.8	0.0
170°-180°	0.0	0.0
0°-30°	2079.8	31.1
0°-40°	3116.8	46.7
0°-60°	4941.2	74.0
0°-90°	6300.1	94.3
90°-120°	255.4	3.8
90°-150°	366.3	5.5
90°-180°	380.0	5.7
0°-180°	6680.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2600	2600	2600	2600	2600	
5°	2629	2589	2594	2580	2581	250
15°	2574	2539	2638	2736	2770	728
25°	2483	2531	2580	2184	2005	1148
35°	2362	2324	1567	1079	938	1481
45°	2169	1513	764	975	1174	1667
55°	1668	776	866	931	997	1469
65°	805	503	675	820	839	814
75°	237	268	404	535	571	269
85°	33	114	229	312	317	43
90°	1	85	205	243	224	2
95°	0	79	142	126	119	0
105°	0	71	88	79	78	0
115°	0	59	84	75	71	1
125°	1	47	75	72	69	1
135°	1	33	60	66	63	1
145°	1	21	41	53	56	1
155°	2	13	25	33	40	1
165°	2	7	13	16	22	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°	2600.5	2600.5	2600.5	2600.5	2600.5
2.5°	2632.7	2594.7	2599.3	2591.3	2577.4
5°	2629.2	2588.9	2593.6	2579.7	2580.9
7.5°	2620.0	2578.6	2584.3	2582.0	2587.8
10°	2609.7	2565.9	2587.8	2607.4	2624.6
12.5°	2591.3	2552.1	2605.1	2662.6	2698.3
15°	2574.0	2539.4	2638.4	2736.3	2769.7
17.5°	2556.7	2534.8	2679.9	2765.1	2760.5
20°	2534.8	2532.5	2711.0	2682.2	2612.0
22.5°	2510.7	2533.7	2686.8	2476.1	2338.0
25°	2483.0	2531.4	2579.7	2183.7	2005.3
27.5°	2455.4	2521.0	2385.2	1863.7	1687.6
30°	2427.8	2493.4	2122.7	1571.3	1411.3
32.5°	2395.6	2433.5	1837.2	1312.3	1165.0
35°	2362.2	2324.2	1566.7	1078.6	938.2
37.5°	2327.6	2166.5	1323.8	873.7	783.9
40°	2286.2	1968.5	1100.5	749.4	773.6
42.5°	2234.4	1745.2	903.7	786.2	954.3
45°	2168.8	1512.6	764.4	975.0	1174.2
47.5°	2085.9	1289.3	729.8	1116.6	1178.8
50°	1985.7	1084.4	802.4	1070.6	1066.0
52.5°	1833.8	914.0	876.0	976.2	1013.0
55°	1668.0	775.9	865.7	931.3	996.9
57.5°	1458.5	682.6	794.3	922.1	998.1
60°	1250.2	620.5	733.3	920.9	992.3
62.5°	1019.9	564.1	702.2	899.1	941.6
65°	804.7	503.1	674.6	819.6	839.2
67.5°	617.0	440.9	626.2	731.0	770.1
70°	465.1	379.9	550.3	663.1	711.4
72.5°	335.0	322.3	472.0	603.2	653.9
75°	237.1	268.2	404.1	535.3	571.0
77.5°	163.5	218.7	346.5	460.5	489.2
80°	107.1	175.0	294.7	396.0	415.6
82.5°	64.5	140.4	255.6	346.5	356.9
85°	33.4	114.0	229.1	312.0	316.6
87.5°	10.4	95.5	214.1	295.8	301.6
90°	1.2	85.2	204.9	242.9	224.5
92.5°	0.0	80.6	177.3	165.8	148.5
95°	0.0	79.4	141.6	125.5	118.6
97.5°	0.0	77.1	116.3	104.8	101.3
100°	0.0	74.8	100.2	92.1	90.9
102.5°	0.0	73.7	90.9	84.0	82.9
105°	0.0	71.4	87.5	79.4	78.3
107.5°	0.0	67.9	85.2	77.1	74.8
110°	0.0	64.5	85.2	76.0	72.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	61.0	85.2	74.8	71.4
115°	0.0	58.7	84.0	74.8	71.4
117.5°	1.2	56.4	82.9	74.8	71.4
120°	0.0	54.1	80.6	74.8	70.2
122.5°	1.2	50.7	78.3	73.7	70.2
125°	1.2	47.2	74.8	72.5	69.1
127.5°	1.2	43.7	71.4	70.2	66.8
130°	1.2	40.3	67.9	69.1	65.6
132.5°	1.2	36.8	63.3	66.8	64.5
135°	1.2	33.4	59.9	65.6	63.3
137.5°	1.2	29.9	55.3	62.2	62.2
140°	1.2	26.5	50.7	59.9	61.0
142.5°	1.2	24.2	46.0	57.6	58.7
145°	1.2	20.7	41.4	53.0	56.4
147.5°	1.2	18.4	36.8	48.3	53.0
150°	1.2	16.1	32.2	43.7	48.3
152.5°	1.2	13.8	28.8	38.0	44.9
155°	2.3	12.7	25.3	33.4	40.3
157.5°	2.3	10.4	20.7	28.8	34.5
160°	2.3	9.2	18.4	24.2	31.1
162.5°	2.3	8.1	15.0	20.7	26.5
165°	2.3	6.9	12.7	16.1	21.9
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)