

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-LD5-64SL-SLN-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 (P27402)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-64SL-SLN-UNV-L830-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

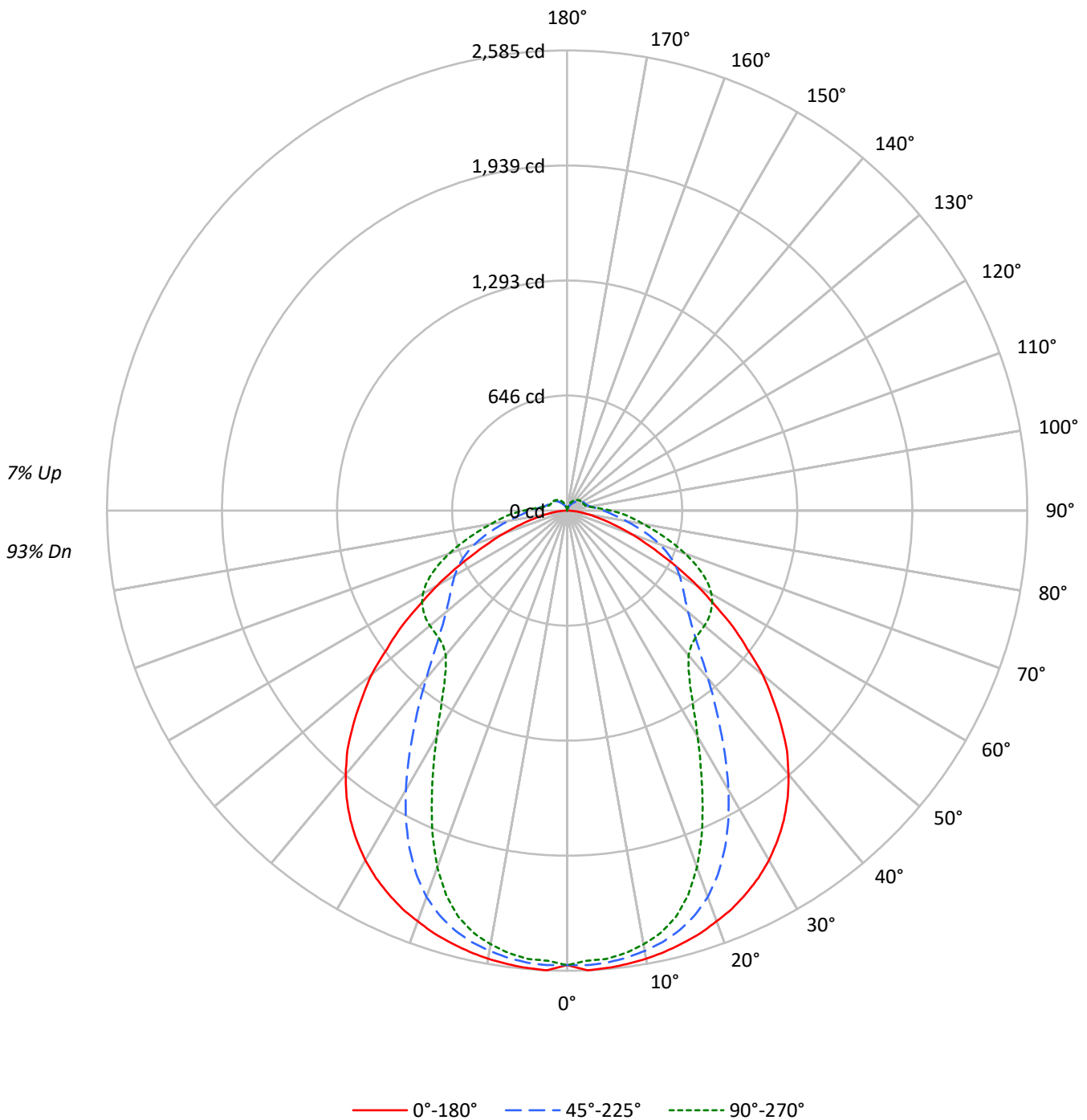
Lumens per Lamp: N/A  
Luminaire Lumens: 6420.0 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 55  
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	20629	20629	20629
5°	20868	20174	19858
10°	20860	19616	19041
15°	20867	18959	17955
20°	20876	17982	16125
25°	20885	16478	13655
30°	20785	14498	11231
35°	20489	12336	9412
40°	19890	10447	8508
45°	18836	9079	8445
50°	17400	8301	8741
55°	15322	7978	9046
60°	12928	7864	9171
65°	10397	7689	8885
70°	8353	7293	8194
75°	6297	6600	7272
80°	4649	5928	6468
85°	3108	5592	5950



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.5	3.8
10°-20°	682.7	10.6
20°-30°	954.3	14.9
30°-40°	989.8	15.4
40°-50°	914.5	14.2
50°-60°	816.4	12.7
60°-70°	661.6	10.3
70°-80°	440.1	6.9
80°-90°	252.0	3.9
90°-100°	139.4	2.2
100°-110°	94.4	1.5
110°-120°	78.6	1.2
120°-130°	63.9	1.0
130°-140°	46.1	0.7
140°-150°	27.8	0.4
150°-160°	13.4	0.2
160°-170°	3.5	0.1
170°-180°	0.0	0.0
0°-30°	1878.5	29.3
0°-40°	2868.3	44.7
0°-60°	4599.2	71.6
0°-90°	5952.9	92.7
90°-120°	312.5	4.9
90°-150°	450.2	7.0
90°-180°	467.0	7.3
0°-180°	6420.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2553	2553	2553	2553	2553	
5°	2580	2536	2550	2532	2528	245
15°	2515	2462	2441	2385	2362	711
25°	2376	2271	2096	1876	1800	1095
35°	2122	1889	1502	1261	1205	1324
45°	1700	1347	1023	986	1016	1307
55°	1136	859	799	929	986	1010
65°	580	519	650	797	839	586
75°	225	282	438	537	559	247
85°	46	131	258	331	340	52
90°	2	92	204	246	244	3
95°	2	78	162	173	168	2
105°	1	68	116	113	108	1
115°	1	61	103	102	99	1
125°	1	52	91	95	93	1
135°	2	39	72	84	84	2
145°	2	24	50	66	70	1
155°	2	16	31	41	50	1
165°	2	9	16	20	27	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°	2552.8	2552.8	2552.8	2552.8	2552.8
2.5°	2585.0	2542.9	2556.2	2545.1	2530.7
5°	2579.5	2536.2	2549.5	2531.8	2528.4
7.5°	2569.5	2526.2	2534.0	2512.9	2507.4
10°	2556.2	2510.7	2511.8	2481.8	2474.1
12.5°	2538.4	2488.5	2481.8	2440.8	2429.7
15°	2515.1	2461.9	2440.8	2385.3	2362.0
17.5°	2489.6	2427.5	2384.2	2298.8	2262.2
20°	2455.2	2385.3	2309.9	2180.1	2131.3
22.5°	2420.8	2334.3	2213.4	2040.3	1974.8
25°	2376.4	2271.0	2095.8	1876.1	1799.5
27.5°	2326.5	2196.7	1960.4	1707.4	1625.3
30°	2267.7	2106.8	1811.7	1542.1	1464.5
32.5°	2198.9	2005.9	1655.3	1393.5	1321.4
35°	2122.4	1889.4	1502.2	1261.4	1204.9
37.5°	2034.7	1761.8	1360.2	1154.9	1118.3
40°	1934.9	1623.1	1229.3	1072.8	1060.6
42.5°	1827.3	1487.8	1117.2	1019.6	1030.7
45°	1699.7	1346.9	1022.9	986.3	1016.3
47.5°	1565.4	1209.3	946.4	967.4	1010.7
50°	1435.6	1081.7	886.5	955.2	1006.3
52.5°	1274.8	967.4	838.7	944.1	999.6
55°	1136.1	858.7	798.8	928.6	986.3
57.5°	976.3	761.1	763.3	908.6	966.3
60°	843.2	672.3	728.9	880.9	936.4
62.5°	707.8	592.4	691.2	844.3	894.2
65°	580.2	519.2	650.1	796.6	838.7
67.5°	473.7	452.7	603.5	738.9	774.4
70°	383.9	391.6	552.5	674.5	704.5
72.5°	295.1	335.1	497.0	605.8	631.3
75°	225.2	281.8	438.2	537.0	559.2
77.5°	166.4	235.2	385.0	474.8	493.7
80°	117.6	194.2	335.1	420.5	434.9
82.5°	78.8	159.8	294.0	371.7	385.0
85°	45.5	130.9	258.5	330.6	339.5
87.5°	18.9	108.7	229.7	288.5	292.9
90°	2.2	92.1	204.1	246.3	244.1
92.5°	2.2	83.2	182.0	206.4	200.8
95°	2.2	77.7	162.0	173.1	167.5
97.5°	2.2	74.3	144.2	148.7	143.1
100°	1.1	72.1	132.0	132.0	126.5
102.5°	1.1	69.9	123.1	119.8	115.4
105°	1.1	67.7	116.5	113.2	107.6
107.5°	1.1	66.6	112.1	108.7	103.2
110°	1.1	64.3	108.7	105.4	101.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	63.2	106.5	104.3	98.7
115°	1.1	61.0	103.2	102.1	98.7
117.5°	1.1	58.8	101.0	101.0	97.6
120°	1.1	56.6	97.6	99.9	96.5
122.5°	1.1	54.4	94.3	97.6	94.3
125°	1.1	52.1	91.0	95.4	93.2
127.5°	2.2	48.8	86.5	93.2	91.0
130°	1.1	45.5	82.1	91.0	89.9
132.5°	2.2	42.2	77.7	87.6	87.6
135°	2.2	38.8	72.1	84.3	84.3
137.5°	2.2	34.4	66.6	79.9	81.0
140°	2.2	31.1	61.0	75.4	77.7
142.5°	2.2	27.7	55.5	71.0	74.3
145°	2.2	24.4	49.9	65.5	69.9
147.5°	2.2	22.2	44.4	58.8	65.5
150°	2.2	18.9	39.9	53.3	59.9
152.5°	2.2	16.6	35.5	47.7	55.5
155°	2.2	15.5	31.1	41.0	49.9
157.5°	2.2	13.3	26.6	35.5	44.4
160°	2.2	11.1	22.2	31.1	37.7
162.5°	2.2	10.0	18.9	25.5	33.3
165°	2.2	8.9	15.5	20.0	26.6
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)