

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-L930-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-L930-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

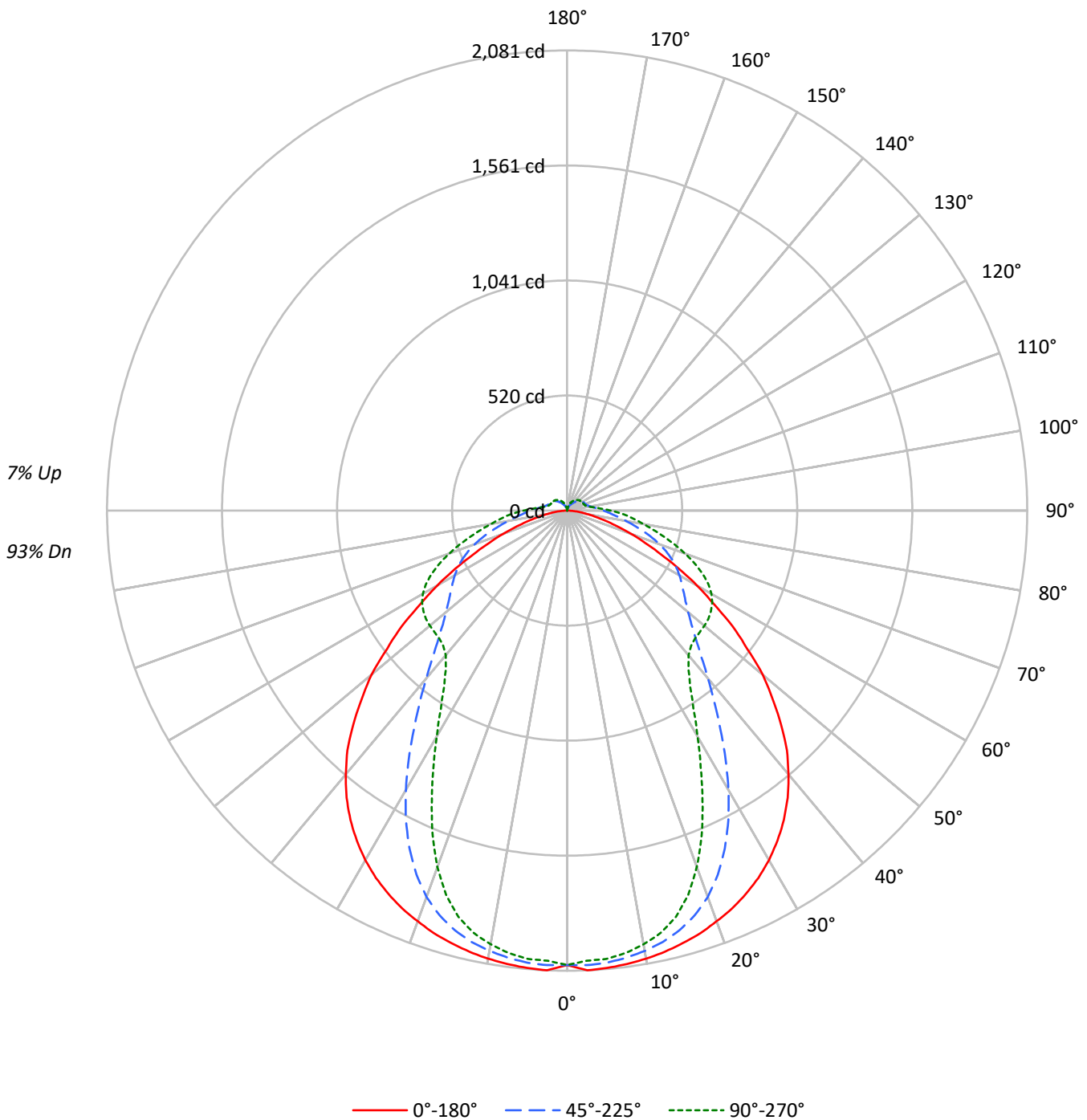
Lumens per Lamp: N/A  
Luminaire Lumens: 5168.0 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

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°	16606	16606	16606
5°	16798	16240	15986
10°	16792	15791	15328
15°	16797	15262	14454
20°	16805	14475	12980
25°	16812	13264	10992
30°	16732	11671	9041
35°	16494	9930	7577
40°	16011	8409	6849
45°	15162	7309	6798
50°	14008	6682	7036
55°	12334	6422	7282
60°	10406	6331	7383
65°	8371	6191	7153
70°	6724	5871	6596
75°	5069	5314	5853
80°	3744	4771	5207
85°	2500	4501	4790



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.4	3.8
10°-20°	549.5	10.6
20°-30°	768.2	14.9
30°-40°	796.8	15.4
40°-50°	736.1	14.2
50°-60°	657.2	12.7
60°-70°	532.6	10.3
70°-80°	354.3	6.9
80°-90°	202.9	3.9
90°-100°	112.2	2.2
100°-110°	76.0	1.5
110°-120°	63.3	1.2
120°-130°	51.4	1.0
130°-140°	37.1	0.7
140°-150°	22.4	0.4
150°-160°	10.8	0.2
160°-170°	2.8	0.1
170°-180°	0.0	0.0
0°-30°	1512.1	29.3
0°-40°	2308.9	44.7
0°-60°	3702.3	71.6
0°-90°	4792.0	92.7
90°-120°	251.5	4.9
90°-150°	362.5	7.0
90°-180°	376.0	7.3
0°-180°	5168.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2055	2055	2055	2055	2055	
5°	2076	2042	2052	2038	2035	198
15°	2025	1982	1965	1920	1901	572
25°	1913	1828	1687	1510	1449	881
35°	1708	1521	1209	1015	970	1066
45°	1368	1084	823	794	818	1052
55°	914	691	643	748	794	813
65°	467	418	523	641	675	472
75°	181	227	353	432	450	199
85°	37	105	208	266	273	42
90°	2	74	164	198	196	3
95°	2	62	130	139	135	1
105°	1	54	94	91	87	1
115°	1	49	83	82	80	1
125°	1	42	73	77	75	1
135°	2	31	58	68	68	1
145°	2	20	40	53	56	1
155°	2	12	25	33	40	1
165°	2	7	12	16	21	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°	2055.0	2055.0	2055.0	2055.0	2055.0
2.5°	2080.9	2047.0	2057.7	2048.8	2037.1
5°	2076.4	2041.6	2052.3	2038.0	2035.4
7.5°	2068.4	2033.6	2039.8	2022.9	2018.4
10°	2057.7	2021.1	2022.0	1997.8	1991.6
12.5°	2043.4	2003.2	1997.8	1964.8	1955.9
15°	2024.6	1981.8	1964.8	1920.1	1901.4
17.5°	2004.1	1954.1	1919.3	1850.5	1821.0
20°	1976.4	1920.1	1859.4	1754.9	1715.6
22.5°	1948.7	1879.1	1781.7	1642.4	1589.7
25°	1913.0	1828.2	1687.0	1510.2	1448.6
27.5°	1872.8	1768.3	1578.1	1374.5	1308.4
30°	1825.5	1696.0	1458.4	1241.4	1178.9
32.5°	1770.1	1614.7	1332.5	1121.7	1063.7
35°	1708.5	1520.9	1209.2	1015.4	969.9
37.5°	1637.9	1418.2	1094.9	929.7	900.2
40°	1557.6	1306.6	989.5	863.6	853.8
42.5°	1470.9	1197.6	899.3	820.8	829.7
45°	1368.2	1084.2	823.4	794.0	818.1
47.5°	1260.2	973.5	761.8	778.8	813.6
50°	1155.7	870.8	713.6	769.0	810.0
52.5°	1026.2	778.8	675.2	760.0	804.7
55°	914.5	691.3	643.0	747.5	794.0
57.5°	785.9	612.7	614.4	731.4	777.9
60°	678.7	541.2	586.8	709.1	753.8
62.5°	569.8	476.9	556.4	679.6	719.8
65°	467.1	418.0	523.4	641.2	675.2
67.5°	381.4	364.4	485.8	594.8	623.4
70°	309.0	315.3	444.8	543.0	567.1
72.5°	237.6	269.7	400.1	487.6	508.2
75°	181.3	226.8	352.8	432.3	450.1
77.5°	134.0	189.3	309.9	382.2	397.4
80°	94.7	156.3	269.7	338.5	350.1
82.5°	63.4	128.6	236.7	299.2	309.9
85°	36.6	105.4	208.1	266.1	273.3
87.5°	15.2	87.5	184.9	232.2	235.8
90°	1.8	74.1	164.3	198.3	196.5
92.5°	1.8	67.0	146.5	166.1	161.6
95°	1.8	62.5	130.4	139.3	134.9
97.5°	1.8	59.8	116.1	119.7	115.2
100°	0.9	58.1	106.3	106.3	101.8
102.5°	0.9	56.3	99.1	96.5	92.9
105°	0.9	54.5	93.8	91.1	86.6
107.5°	0.9	53.6	90.2	87.5	83.1
110°	0.9	51.8	87.5	84.8	81.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	50.9	85.7	84.0	79.5
115°	0.9	49.1	83.1	82.2	79.5
117.5°	0.9	47.3	81.3	81.3	78.6
120°	0.9	45.5	78.6	80.4	77.7
122.5°	0.9	43.8	75.9	78.6	75.9
125°	0.9	42.0	73.2	76.8	75.0
127.5°	1.8	39.3	69.7	75.0	73.2
130°	0.9	36.6	66.1	73.2	72.3
132.5°	1.8	33.9	62.5	70.6	70.6
135°	1.8	31.3	58.1	67.9	67.9
137.5°	1.8	27.7	53.6	64.3	65.2
140°	1.8	25.0	49.1	60.7	62.5
142.5°	1.8	22.3	44.7	57.2	59.8
145°	1.8	19.6	40.2	52.7	56.3
147.5°	1.8	17.9	35.7	47.3	52.7
150°	1.8	15.2	32.2	42.9	48.2
152.5°	1.8	13.4	28.6	38.4	44.7
155°	1.8	12.5	25.0	33.0	40.2
157.5°	1.8	10.7	21.4	28.6	35.7
160°	1.8	8.9	17.9	25.0	30.4
162.5°	1.8	8.0	15.2	20.5	26.8
165°	1.8	7.1	12.5	16.1	21.4
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)