

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-L935-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-L935-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

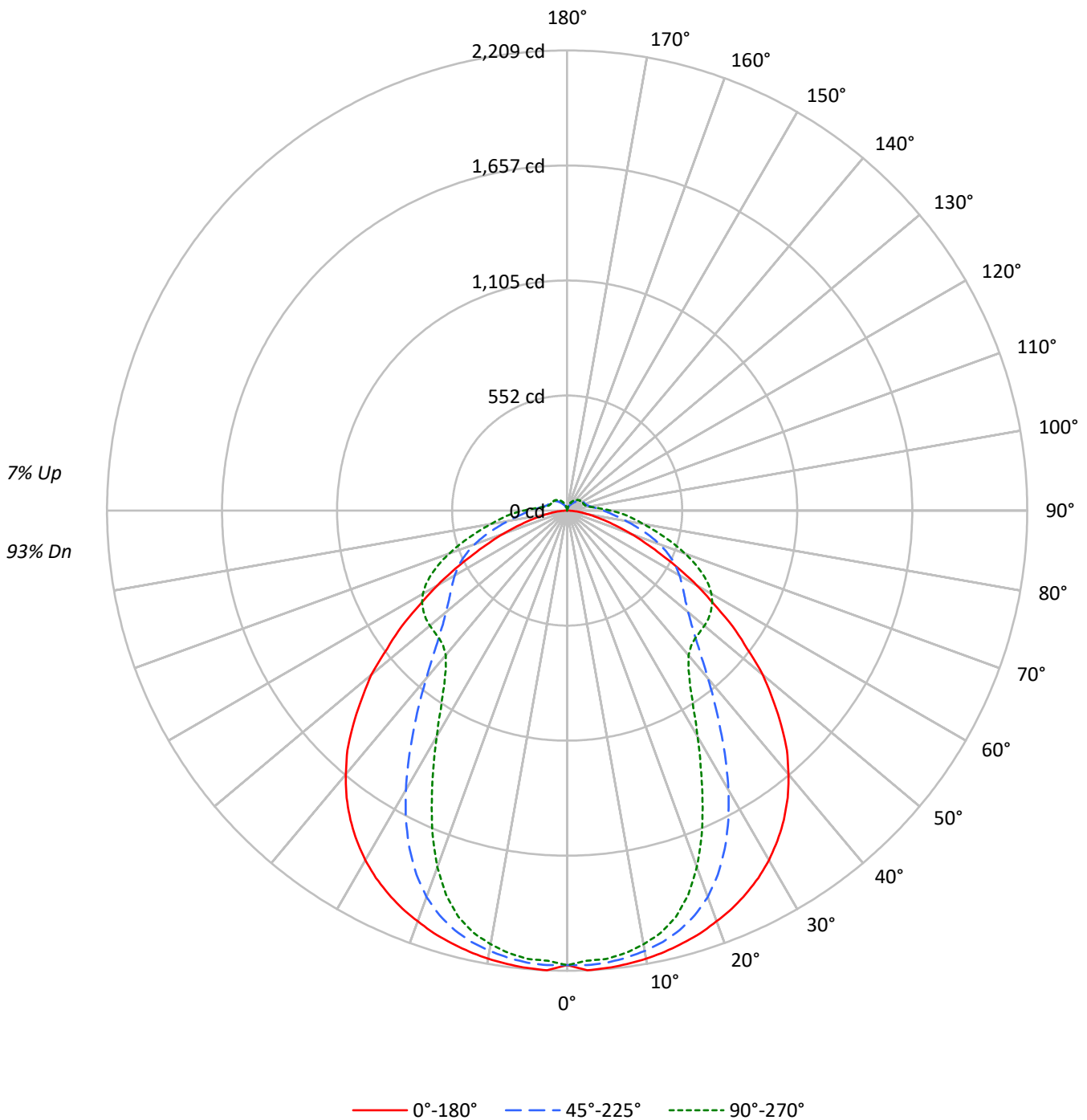
Lumens per Lamp: N/A  
Luminaire Lumens: 5486.0 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

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



TEST NUMBER: P#  
CATALOG NUMBER: 4SNLED-LD5-64SL-SLN-UNV-L935-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-64SL-SLN-UNV-L935-CD1-U

**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°	17629	17629	17629
5°	17831	17239	16969
10°	17825	16763	16271
15°	17831	16201	15343
20°	17839	15366	13779
25°	17847	14081	11668
30°	17761	12390	9597
35°	17508	10542	8043
40°	16996	8927	7271
45°	16095	7759	7216
50°	14869	7093	7469
55°	13093	6818	7730
60°	11047	6720	7837
65°	8885	6572	7592
70°	7137	6232	7002
75°	5383	5640	6214
80°	3973	5065	5527
85°	2658	4778	5084



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-64SL-SLN-UNV-L935-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.4	3.8
10°-20°	583.3	10.6
20°-30°	815.5	14.9
30°-40°	845.8	15.4
40°-50°	781.4	14.2
50°-60°	697.7	12.7
60°-70°	565.4	10.3
70°-80°	376.1	6.9
80°-90°	215.3	3.9
90°-100°	119.1	2.2
100°-110°	80.7	1.5
110°-120°	67.2	1.2
120°-130°	54.6	1.0
130°-140°	39.4	0.7
140°-150°	23.7	0.4
150°-160°	11.4	0.2
160°-170°	3.0	0.1
170°-180°	0.0	0.0
0°-30°	1605.2	29.3
0°-40°	2451.0	44.7
0°-60°	3930.1	71.6
0°-90°	5086.9	92.7
90°-120°	267.0	4.9
90°-150°	384.7	7.0
90°-180°	399.0	7.3
0°-180°	5486.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2182	2182	2182	2182	2182	
5°	2204	2167	2179	2163	2161	210
15°	2149	2104	2086	2038	2018	607
25°	2031	1941	1791	1603	1538	936
35°	1814	1614	1284	1078	1030	1132
45°	1452	1151	874	843	868	1117
55°	971	734	683	794	843	863
65°	496	444	556	681	717	501
75°	192	241	374	459	478	211
85°	39	112	221	282	290	45
90°	2	79	174	210	209	3
95°	2	66	138	148	143	1
105°	1	58	100	97	92	1
115°	1	52	88	87	84	1
125°	1	45	78	82	80	1
135°	2	33	62	72	72	1
145°	2	21	43	56	60	1
155°	2	13	26	35	43	1
165°	2	8	13	17	23	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-64SL-SLN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2181.5	2181.5	2181.5	2181.5	2181.5
2.5°	2208.9	2172.9	2184.3	2174.8	2162.5
5°	2204.2	2167.2	2178.6	2163.4	2160.6
7.5°	2195.7	2158.7	2165.3	2147.3	2142.6
10°	2184.3	2145.4	2146.4	2120.8	2114.1
12.5°	2169.1	2126.5	2120.8	2085.7	2076.2
15°	2149.2	2103.7	2085.7	2038.3	2018.4
17.5°	2127.4	2074.3	2037.4	1964.4	1933.1
20°	2098.0	2038.3	1973.8	1862.9	1821.2
22.5°	2068.6	1994.7	1891.4	1743.5	1687.5
25°	2030.7	1940.6	1790.9	1603.1	1537.7
27.5°	1988.1	1877.1	1675.2	1459.0	1388.9
30°	1937.8	1800.3	1548.2	1317.8	1251.4
32.5°	1879.0	1714.1	1414.5	1190.7	1129.1
35°	1813.6	1614.5	1283.7	1077.9	1029.6
37.5°	1738.7	1505.5	1162.3	986.9	955.6
40°	1653.4	1387.0	1050.4	916.8	906.3
42.5°	1561.4	1271.3	954.7	871.3	880.7
45°	1452.4	1150.9	874.1	842.8	868.4
47.5°	1337.7	1033.4	808.7	826.7	863.7
50°	1226.8	924.3	757.5	816.3	859.9
52.5°	1089.3	826.7	716.7	806.8	854.2
55°	970.8	733.8	682.6	793.5	842.8
57.5°	834.3	650.4	652.3	776.4	825.7
60°	720.5	574.5	622.9	752.7	800.2
62.5°	604.9	506.3	590.6	721.5	764.1
65°	495.8	443.7	555.6	680.7	716.7
67.5°	404.8	386.8	515.7	631.4	661.7
70°	328.0	334.7	472.1	576.4	602.0
72.5°	252.2	286.3	424.7	517.6	539.4
75°	192.5	240.8	374.5	458.9	477.8
77.5°	142.2	201.0	329.0	405.8	421.9
80°	100.5	165.9	286.3	359.3	371.6
82.5°	67.3	136.5	251.2	317.6	329.0
85°	38.9	111.9	220.9	282.5	290.1
87.5°	16.1	92.9	196.2	246.5	250.3
90°	1.9	78.7	174.4	210.5	208.6
92.5°	1.9	71.1	155.5	176.3	171.6
95°	1.9	66.4	138.4	147.9	143.2
97.5°	1.9	63.5	123.2	127.0	122.3
100°	0.9	61.6	112.8	112.8	108.1
102.5°	0.9	59.7	105.2	102.4	98.6
105°	0.9	57.8	99.5	96.7	92.0
107.5°	0.9	56.9	95.8	92.9	88.2
110°	0.9	55.0	92.9	90.1	86.3



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-64SL-SLN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	54.0	91.0	89.1	84.4
115°	0.9	52.1	88.2	87.2	84.4
117.5°	0.9	50.2	86.3	86.3	83.4
120°	0.9	48.4	83.4	85.3	82.5
122.5°	0.9	46.5	80.6	83.4	80.6
125°	0.9	44.6	77.7	81.5	79.6
127.5°	1.9	41.7	73.9	79.6	77.7
130°	0.9	38.9	70.2	77.7	76.8
132.5°	1.9	36.0	66.4	74.9	74.9
135°	1.9	33.2	61.6	72.1	72.1
137.5°	1.9	29.4	56.9	68.3	69.2
140°	1.9	26.5	52.1	64.5	66.4
142.5°	1.9	23.7	47.4	60.7	63.5
145°	1.9	20.9	42.7	55.9	59.7
147.5°	1.9	19.0	37.9	50.2	55.9
150°	1.9	16.1	34.1	45.5	51.2
152.5°	1.9	14.2	30.3	40.8	47.4
155°	1.9	13.3	26.5	35.1	42.7
157.5°	1.9	11.4	22.8	30.3	37.9
160°	1.9	9.5	19.0	26.5	32.2
162.5°	1.9	8.5	16.1	21.8	28.4
165°	1.9	7.6	13.3	17.1	22.8
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)