

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-LD5-49SL-SLN-UNV-L850-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-LD5-49SL-SLN-UNV-L850-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

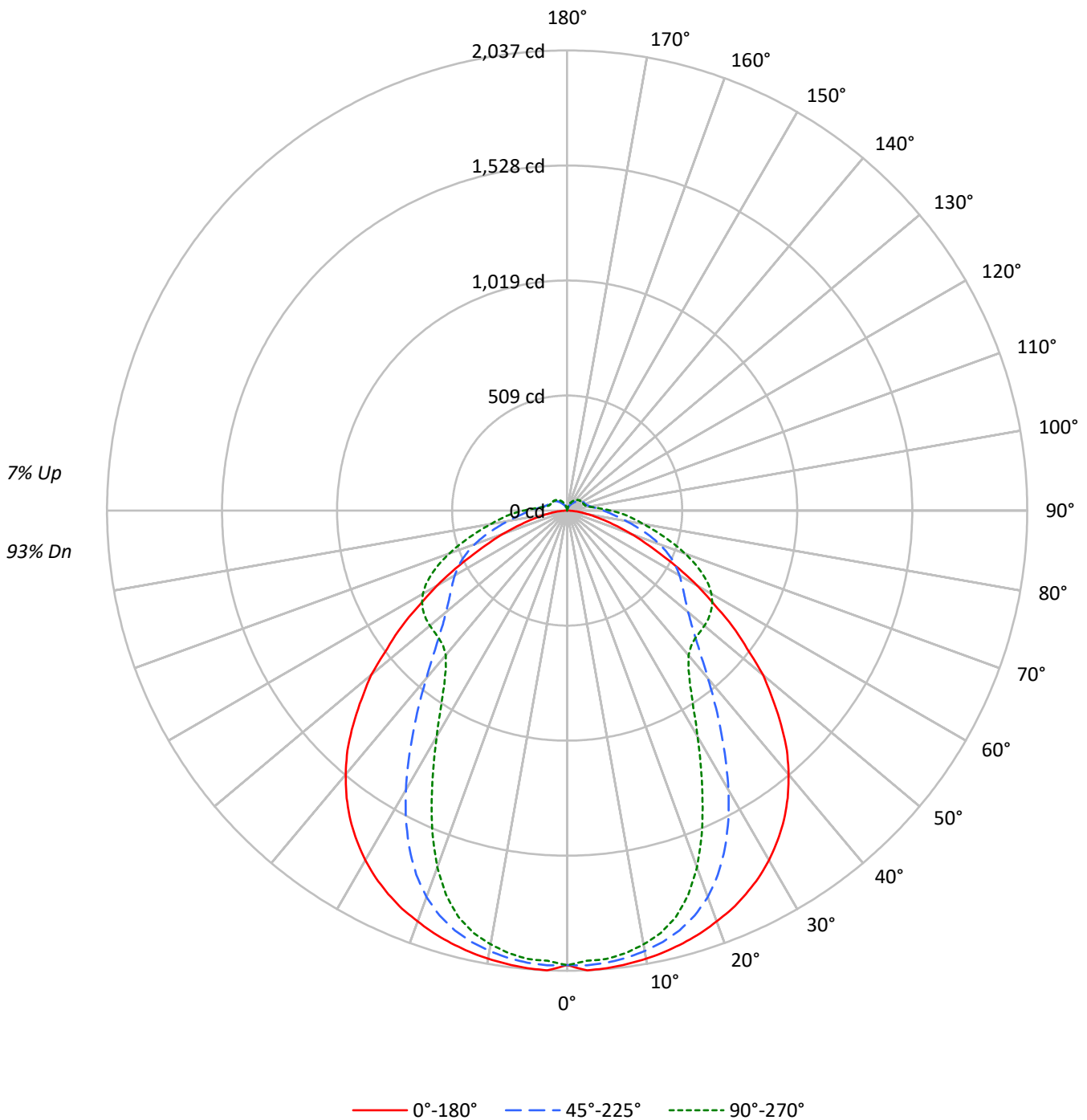
Lumens per Lamp: N/A  
Luminaire Lumens: 5060.0 lumens  
Efficiency: N/A  
Efficacy: 133.2 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 38  
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-LD5-49SL-SLN-UNV-L850-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-49SL-SLN-UNV-L850-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°	16260	16260	16260
5°	16446	15900	15651
10°	16441	15461	15008
15°	16446	14943	14152
20°	16454	14173	12709
25°	16461	12987	10762
30°	16382	11427	8852
35°	16149	9723	7418
40°	15676	8234	6707
45°	14845	7156	6656
50°	13714	6542	6889
55°	12076	6288	7130
60°	10190	6198	7228
65°	8195	6061	7003
70°	6584	5749	6459
75°	4963	5202	5731
80°	3665	4672	5099
85°	2453	4406	4690



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-49SL-SLN-UNV-L850-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.4	3.8
10°-20°	538.0	10.6
20°-30°	752.1	14.9
30°-40°	780.2	15.4
40°-50°	720.7	14.2
50°-60°	643.5	12.7
60°-70°	521.5	10.3
70°-80°	346.9	6.9
80°-90°	198.6	3.9
90°-100°	109.9	2.2
100°-110°	74.4	1.5
110°-120°	61.9	1.2
120°-130°	50.4	1.0
130°-140°	36.3	0.7
140°-150°	21.9	0.4
150°-160°	10.5	0.2
160°-170°	2.7	0.1
170°-180°	0.0	0.0
0°-30°	1480.5	29.3
0°-40°	2260.7	44.7
0°-60°	3624.9	71.6
0°-90°	4691.9	92.7
90°-120°	246.3	4.9
90°-150°	354.9	7.0
90°-180°	368.0	7.3
0°-180°	5060.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2012	2012	2012	2012	2012	
5°	2033	1999	2009	1995	1993	193
15°	1982	1940	1924	1880	1862	560
25°	1873	1790	1652	1479	1418	863
35°	1673	1489	1184	994	950	1044
45°	1340	1062	806	777	801	1030
55°	895	677	630	732	777	796
65°	457	409	512	628	661	462
75°	178	222	345	423	441	195
85°	36	103	204	261	268	41
90°	2	73	161	194	192	3
95°	2	61	128	136	132	1
105°	1	53	92	89	85	1
115°	1	48	81	80	78	1
125°	1	41	72	75	74	1
135°	2	31	57	66	66	1
145°	2	19	39	52	55	1
155°	2	12	24	32	39	1
165°	2	7	12	16	21	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-49SL-SLN-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2012.1	2012.1	2012.1	2012.1	2012.1
2.5°	2037.4	2004.2	2014.7	2005.9	1994.6
5°	2033.0	1998.9	2009.4	1995.4	1992.8
7.5°	2025.2	1991.1	1997.2	1980.6	1976.2
10°	2014.7	1978.8	1979.7	1956.1	1950.0
12.5°	2000.7	1961.3	1956.1	1923.7	1915.0
15°	1982.3	1940.4	1923.7	1880.0	1861.7
17.5°	1962.2	1913.2	1879.1	1811.8	1783.0
20°	1935.1	1880.0	1820.6	1718.3	1679.8
22.5°	1908.0	1839.8	1744.5	1608.1	1556.5
25°	1873.0	1790.0	1651.8	1478.7	1418.3
27.5°	1833.7	1731.4	1545.1	1345.7	1281.0
30°	1787.3	1660.5	1427.9	1215.5	1154.2
32.5°	1733.1	1581.0	1304.6	1098.3	1041.4
35°	1672.8	1489.2	1184.0	994.2	949.6
37.5°	1603.7	1388.6	1072.0	910.3	881.4
40°	1525.0	1279.3	968.9	845.6	836.0
42.5°	1440.2	1172.6	880.5	803.6	812.3
45°	1339.6	1061.6	806.2	777.4	801.0
47.5°	1233.8	953.1	745.9	762.5	796.6
50°	1131.5	852.6	698.7	752.9	793.1
52.5°	1004.7	762.5	661.1	744.1	787.9
55°	895.4	676.8	629.6	731.9	777.4
57.5°	769.5	599.9	601.6	716.2	761.6
60°	664.6	529.9	574.5	694.3	738.0
62.5°	557.9	466.9	544.8	665.4	704.8
65°	457.3	409.2	512.4	627.8	661.1
67.5°	373.4	356.8	475.7	582.4	610.4
70°	302.6	308.7	435.5	531.7	555.3
72.5°	232.6	264.1	391.7	477.4	497.5
75°	177.5	222.1	345.4	423.2	440.7
77.5°	131.2	185.4	303.4	374.3	389.1
80°	92.7	153.0	264.1	331.4	342.8
82.5°	62.1	125.9	231.7	292.9	303.4
85°	35.9	103.2	203.7	260.6	267.6
87.5°	14.9	85.7	181.0	227.4	230.8
90°	1.7	72.6	160.9	194.1	192.4
92.5°	1.7	65.6	143.4	162.6	158.3
95°	1.7	61.2	127.7	136.4	132.0
97.5°	1.7	58.6	113.7	117.2	112.8
100°	0.9	56.8	104.1	104.1	99.7
102.5°	0.9	55.1	97.1	94.4	90.9
105°	0.9	53.3	91.8	89.2	84.8
107.5°	0.9	52.5	88.3	85.7	81.3
110°	0.9	50.7	85.7	83.1	79.6



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-49SL-SLN-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	49.8	83.9	82.2	77.8
115°	0.9	48.1	81.3	80.4	77.8
117.5°	0.9	46.3	79.6	79.6	76.9
120°	0.9	44.6	76.9	78.7	76.1
122.5°	0.9	42.8	74.3	76.9	74.3
125°	0.9	41.1	71.7	75.2	73.5
127.5°	1.7	38.5	68.2	73.5	71.7
130°	0.9	35.9	64.7	71.7	70.8
132.5°	1.7	33.2	61.2	69.1	69.1
135°	1.7	30.6	56.8	66.5	66.5
137.5°	1.7	27.1	52.5	63.0	63.8
140°	1.7	24.5	48.1	59.5	61.2
142.5°	1.7	21.9	43.7	56.0	58.6
145°	1.7	19.2	39.3	51.6	55.1
147.5°	1.7	17.5	35.0	46.3	51.6
150°	1.7	14.9	31.5	42.0	47.2
152.5°	1.7	13.1	28.0	37.6	43.7
155°	1.7	12.2	24.5	32.4	39.3
157.5°	1.7	10.5	21.0	28.0	35.0
160°	1.7	8.7	17.5	24.5	29.7
162.5°	1.7	7.9	14.9	20.1	26.2
165°	1.7	7.0	12.2	15.7	21.0
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)