

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-SLC-UNV-L835-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-LD5-49SL-SLC-UNV-L835-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

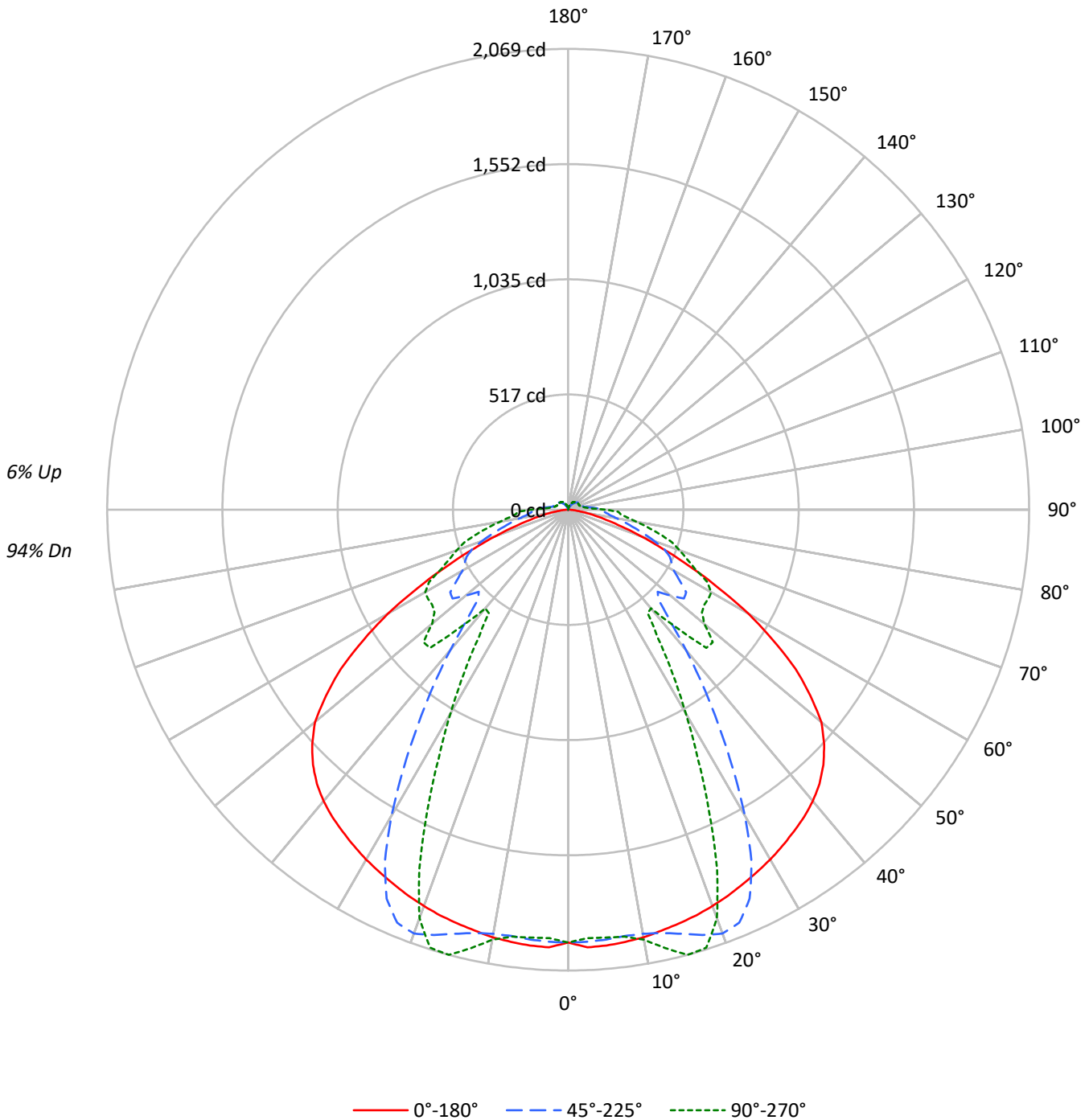
Lumens per Lamp: N/A  
Luminaire Lumens: 4990.0 lumens  
Efficiency: N/A  
Efficacy: 131.3 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 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



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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°	15698	15698	15698
5°	15889	15330	15142
10°	15908	15097	15089
15°	15953	15309	15728
20°	16100	15765	14763
25°	16301	15151	11367
30°	16623	12690	8086
35°	17035	9611	5475
40°	17555	6987	4636
45°	17954	5068	7288
50°	17979	5612	6917
55°	16805	6459	6830
60°	14319	5910	7260
65°	10772	5960	6641
70°	7559	5425	6181
75°	4952	4545	5546
80°	3162	3894	4617
85°	1701	3701	4145



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.8	3.7
10°-20°	558.1	11.2
20°-30°	810.8	16.2
30°-40°	774.6	15.5
40°-50°	708.6	14.2
50°-60°	654.3	13.1
60°-70°	519.7	10.4
70°-80°	320.8	6.4
80°-90°	174.7	3.5
90°-100°	88.3	1.8
100°-110°	55.5	1.1
110°-120°	47.0	0.9
120°-130°	38.4	0.8
130°-140°	27.5	0.6
140°-150°	17.0	0.3
150°-160°	8.1	0.2
160°-170°	2.1	0.0
170°-180°	0.0	0.0
0°-30°	1553.7	31.1
0°-40°	2328.3	46.7
0°-60°	3691.1	74.0
0°-90°	4706.2	94.3
90°-120°	190.7	3.8
90°-150°	273.6	5.5
90°-180°	284.0	5.7
0°-180°	4990.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1943	1943	1943	1943	1943	
5°	1964	1934	1937	1927	1928	187
15°	1923	1897	1971	2044	2069	544
25°	1855	1891	1927	1631	1498	857
35°	1765	1736	1170	806	701	1106
45°	1620	1130	571	728	877	1245
55°	1246	580	647	696	745	1097
65°	601	376	504	612	627	608
75°	177	200	302	400	426	201
85°	25	85	171	233	236	32
90°	1	64	153	181	168	1
95°	0	59	106	94	89	0
105°	0	53	65	59	58	0
115°	0	44	63	56	53	0
125°	1	35	56	54	52	1
135°	1	25	45	49	47	1
145°	1	16	31	40	42	1
155°	2	10	19	25	30	1
165°	2	5	10	12	16	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°	1942.6	1942.6	1942.6	1942.6	1942.6
2.5°	1966.6	1938.3	1941.7	1935.7	1925.4
5°	1964.1	1934.0	1937.4	1927.1	1927.9
7.5°	1957.2	1926.2	1930.5	1928.8	1933.1
10°	1949.4	1916.8	1933.1	1947.7	1960.6
12.5°	1935.7	1906.4	1946.0	1989.0	2015.7
15°	1922.8	1897.0	1970.9	2044.0	2069.0
17.5°	1909.9	1893.5	2001.9	2065.5	2062.1
20°	1893.5	1891.8	2025.1	2003.6	1951.2
22.5°	1875.5	1892.7	2007.1	1849.7	1746.5
25°	1854.8	1891.0	1927.1	1631.3	1498.0
27.5°	1834.2	1883.2	1781.8	1392.2	1260.6
30°	1813.6	1862.6	1585.7	1173.8	1054.3
32.5°	1789.5	1817.9	1372.4	980.3	870.2
35°	1764.6	1736.2	1170.4	805.7	700.8
37.5°	1738.8	1618.4	988.9	652.7	585.6
40°	1707.8	1470.5	822.1	559.8	577.9
42.5°	1669.1	1303.6	675.0	587.3	712.9
45°	1620.1	1129.9	571.0	728.4	877.1
47.5°	1558.2	963.1	545.2	834.1	880.6
50°	1483.4	810.0	599.4	799.7	796.3
52.5°	1369.9	682.8	654.4	729.2	756.7
55°	1246.0	579.6	646.7	695.7	744.7
57.5°	1089.5	509.9	593.3	688.8	745.6
60°	933.9	463.5	547.8	687.9	741.3
62.5°	761.9	421.4	524.6	671.6	703.4
65°	601.1	375.8	503.9	612.3	626.9
67.5°	460.9	329.3	467.8	546.0	575.3
70°	347.4	283.8	411.0	495.3	531.4
72.5°	250.2	240.8	352.6	450.6	488.4
75°	177.1	200.4	301.8	399.9	426.5
77.5°	122.1	163.4	258.8	344.0	365.5
80°	80.0	130.7	220.1	295.8	310.4
82.5°	48.2	104.9	190.9	258.8	266.6
85°	24.9	85.1	171.1	233.0	236.5
87.5°	7.7	71.4	159.9	221.0	225.3
90°	0.9	63.6	153.1	181.4	167.7
92.5°	0.0	60.2	132.4	123.8	110.9
95°	0.0	59.3	105.8	93.7	88.6
97.5°	0.0	57.6	86.9	78.3	75.7
100°	0.0	55.9	74.8	68.8	67.9
102.5°	0.0	55.0	67.9	62.8	61.9
105°	0.0	53.3	65.4	59.3	58.5
107.5°	0.0	50.7	63.6	57.6	55.9
110°	0.0	48.2	63.6	56.8	54.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	45.6	63.6	55.9	53.3
115°	0.0	43.9	62.8	55.9	53.3
117.5°	0.9	42.1	61.9	55.9	53.3
120°	0.0	40.4	60.2	55.9	52.5
122.5°	0.9	37.8	58.5	55.0	52.5
125°	0.9	35.3	55.9	54.2	51.6
127.5°	0.9	32.7	53.3	52.5	49.9
130°	0.9	30.1	50.7	51.6	49.0
132.5°	0.9	27.5	47.3	49.9	48.2
135°	0.9	24.9	44.7	49.0	47.3
137.5°	0.9	22.4	41.3	46.4	46.4
140°	0.9	19.8	37.8	44.7	45.6
142.5°	0.9	18.1	34.4	43.0	43.9
145°	0.9	15.5	31.0	39.6	42.1
147.5°	0.9	13.8	27.5	36.1	39.6
150°	0.9	12.0	24.1	32.7	36.1
152.5°	0.9	10.3	21.5	28.4	33.5
155°	1.7	9.5	18.9	24.9	30.1
157.5°	1.7	7.7	15.5	21.5	25.8
160°	1.7	6.9	13.8	18.1	23.2
162.5°	1.7	6.0	11.2	15.5	19.8
165°	1.7	5.2	9.5	12.0	16.3
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)