

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-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 (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-L835-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

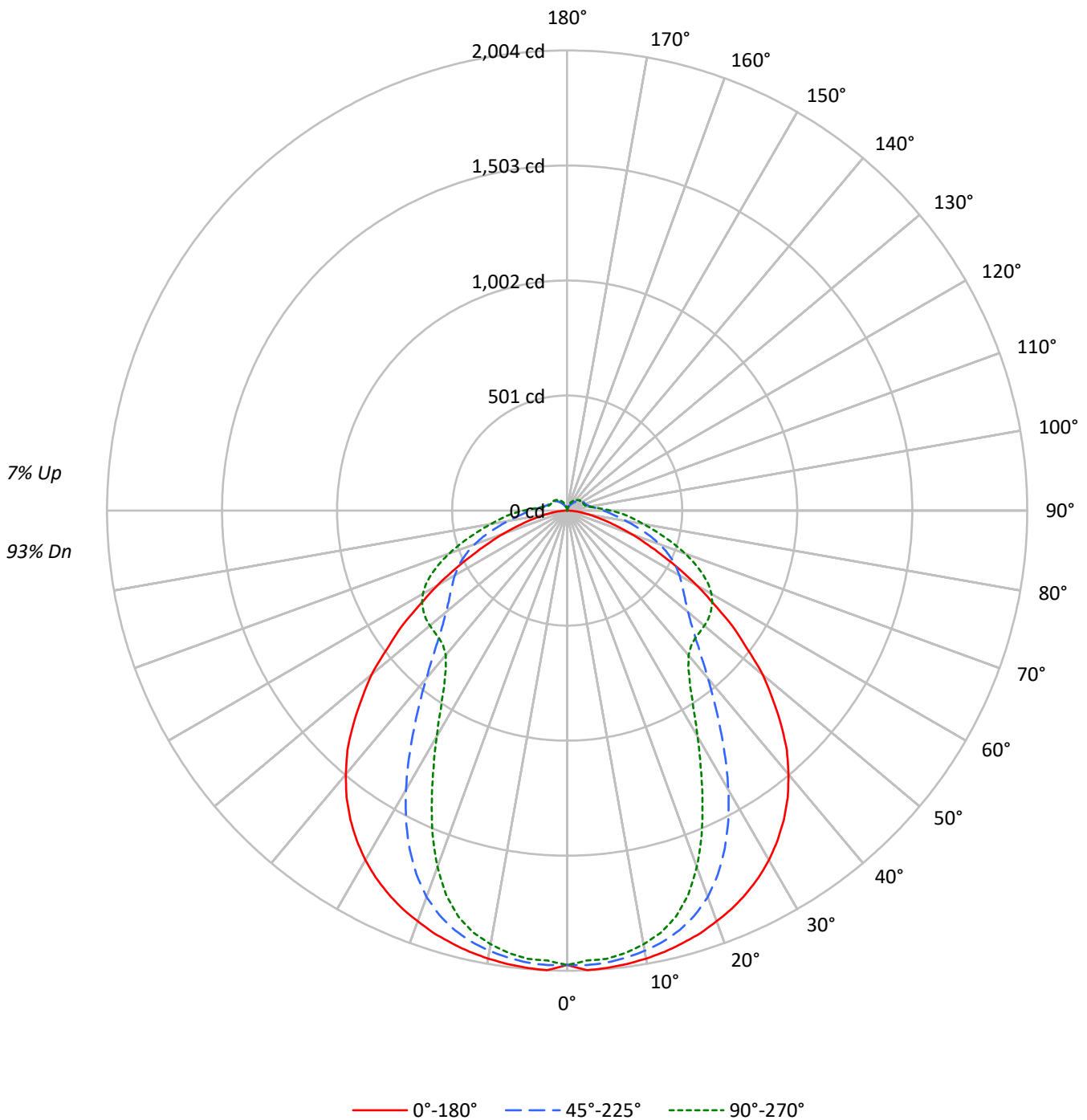
Lumens per Lamp: N/A  
Luminaire Lumens: 4976.0 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

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



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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°	15990	15990	15990
5°	16174	15637	15391
10°	16168	15204	14758
15°	16173	14695	13917
20°	16181	13937	12498
25°	16187	12771	10584
30°	16111	11237	8705
35°	15881	9561	7295
40°	15416	8097	6595
45°	14599	7037	6545
50°	13486	6434	6774
55°	11875	6183	7012
60°	10020	6096	7109
65°	8059	5960	6887
70°	6473	5652	6351
75°	4882	5116	5636
80°	3605	4594	5014
85°	2412	4335	4611



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.2	3.8
10°-20°	529.1	10.6
20°-30°	739.6	14.9
30°-40°	767.2	15.4
40°-50°	708.8	14.2
50°-60°	632.8	12.7
60°-70°	512.8	10.3
70°-80°	341.1	6.9
80°-90°	195.3	3.9
90°-100°	108.0	2.2
100°-110°	73.2	1.5
110°-120°	60.9	1.2
120°-130°	49.5	1.0
130°-140°	35.7	0.7
140°-150°	21.5	0.4
150°-160°	10.4	0.2
160°-170°	2.7	0.1
170°-180°	0.0	0.0
0°-30°	1456.0	29.3
0°-40°	2223.2	44.7
0°-60°	3564.7	71.6
0°-90°	4614.0	92.7
90°-120°	242.2	4.9
90°-150°	349.0	7.0
90°-180°	362.0	7.3
0°-180°	4976.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1979	1979	1979	1979	1979	
5°	1999	1966	1976	1962	1960	190
15°	1949	1908	1892	1849	1831	551
25°	1842	1760	1624	1454	1395	849
35°	1645	1464	1164	978	934	1026
45°	1317	1044	793	764	788	1013
55°	880	666	619	720	764	783
65°	450	402	504	617	650	455
75°	175	218	340	416	433	191
85°	35	102	200	256	263	41
90°	2	71	158	191	189	3
95°	2	60	126	134	130	1
105°	1	52	90	88	83	1
115°	1	47	80	79	76	1
125°	1	40	70	74	72	1
135°	2	30	56	65	65	1
145°	2	19	39	51	54	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1978.7	1978.7	1978.7	1978.7	1978.7
2.5°	2003.6	1970.9	1981.2	1972.6	1961.5
5°	1999.3	1965.8	1976.1	1962.3	1959.7
7.5°	1991.6	1958.0	1964.0	1947.7	1943.4
10°	1981.2	1946.0	1946.8	1923.6	1917.6
12.5°	1967.5	1928.8	1923.6	1891.8	1883.2
15°	1949.4	1908.1	1891.8	1848.8	1830.8
17.5°	1929.6	1881.5	1848.0	1781.7	1753.4
20°	1903.0	1848.8	1790.3	1689.7	1651.9
22.5°	1876.3	1809.3	1715.5	1581.4	1530.6
25°	1841.9	1760.2	1624.4	1454.1	1394.8
27.5°	1803.2	1702.6	1519.5	1323.4	1259.8
30°	1757.7	1633.0	1404.2	1195.3	1135.1
32.5°	1704.3	1554.7	1283.0	1080.0	1024.2
35°	1645.0	1464.4	1164.3	977.7	933.9
37.5°	1577.1	1365.5	1054.3	895.2	866.8
40°	1499.7	1258.1	952.8	831.5	822.1
42.5°	1416.3	1153.1	865.9	790.3	798.9
45°	1317.4	1043.9	792.8	764.5	787.7
47.5°	1213.3	937.3	733.5	749.8	783.4
50°	1112.7	838.4	687.1	740.4	779.9
52.5°	988.0	749.8	650.1	731.8	774.8
55°	880.5	665.6	619.1	719.7	764.5
57.5°	756.7	589.9	591.6	704.3	749.0
60°	653.5	521.1	565.0	682.8	725.8
62.5°	548.6	459.2	535.7	654.4	693.1
65°	449.7	402.4	503.9	617.4	650.1
67.5°	367.2	350.8	467.8	572.7	600.2
70°	297.5	303.5	428.2	522.8	546.0
72.5°	228.7	259.7	385.2	469.5	489.3
75°	174.6	218.4	339.7	416.2	433.4
77.5°	129.0	182.3	298.4	368.0	382.7
80°	91.2	150.5	259.7	325.9	337.1
82.5°	61.1	123.8	227.9	288.1	298.4
85°	35.3	101.5	200.4	256.3	263.1
87.5°	14.6	84.3	178.0	223.6	227.0
90°	1.7	71.4	158.2	190.9	189.2
92.5°	1.7	64.5	141.0	159.9	155.6
95°	1.7	60.2	125.5	134.1	129.8
97.5°	1.7	57.6	111.8	115.2	110.9
100°	0.9	55.9	102.3	102.3	98.0
102.5°	0.9	54.2	95.5	92.9	89.4
105°	0.9	52.5	90.3	87.7	83.4
107.5°	0.9	51.6	86.9	84.3	80.0
110°	0.9	49.9	84.3	81.7	78.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	49.0	82.6	80.8	76.5
115°	0.9	47.3	80.0	79.1	76.5
117.5°	0.9	45.6	78.3	78.3	75.7
120°	0.9	43.9	75.7	77.4	74.8
122.5°	0.9	42.1	73.1	75.7	73.1
125°	0.9	40.4	70.5	74.0	72.2
127.5°	1.7	37.8	67.1	72.2	70.5
130°	0.9	35.3	63.6	70.5	69.7
132.5°	1.7	32.7	60.2	67.9	67.9
135°	1.7	30.1	55.9	65.4	65.4
137.5°	1.7	26.7	51.6	61.9	62.8
140°	1.7	24.1	47.3	58.5	60.2
142.5°	1.7	21.5	43.0	55.0	57.6
145°	1.7	18.9	38.7	50.7	54.2
147.5°	1.7	17.2	34.4	45.6	50.7
150°	1.7	14.6	31.0	41.3	46.4
152.5°	1.7	12.9	27.5	37.0	43.0
155°	1.7	12.0	24.1	31.8	38.7
157.5°	1.7	10.3	20.6	27.5	34.4
160°	1.7	8.6	17.2	24.1	29.2
162.5°	1.7	7.7	14.6	19.8	25.8
165°	1.7	6.9	12.0	15.5	20.6
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)