

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-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 (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-L850-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

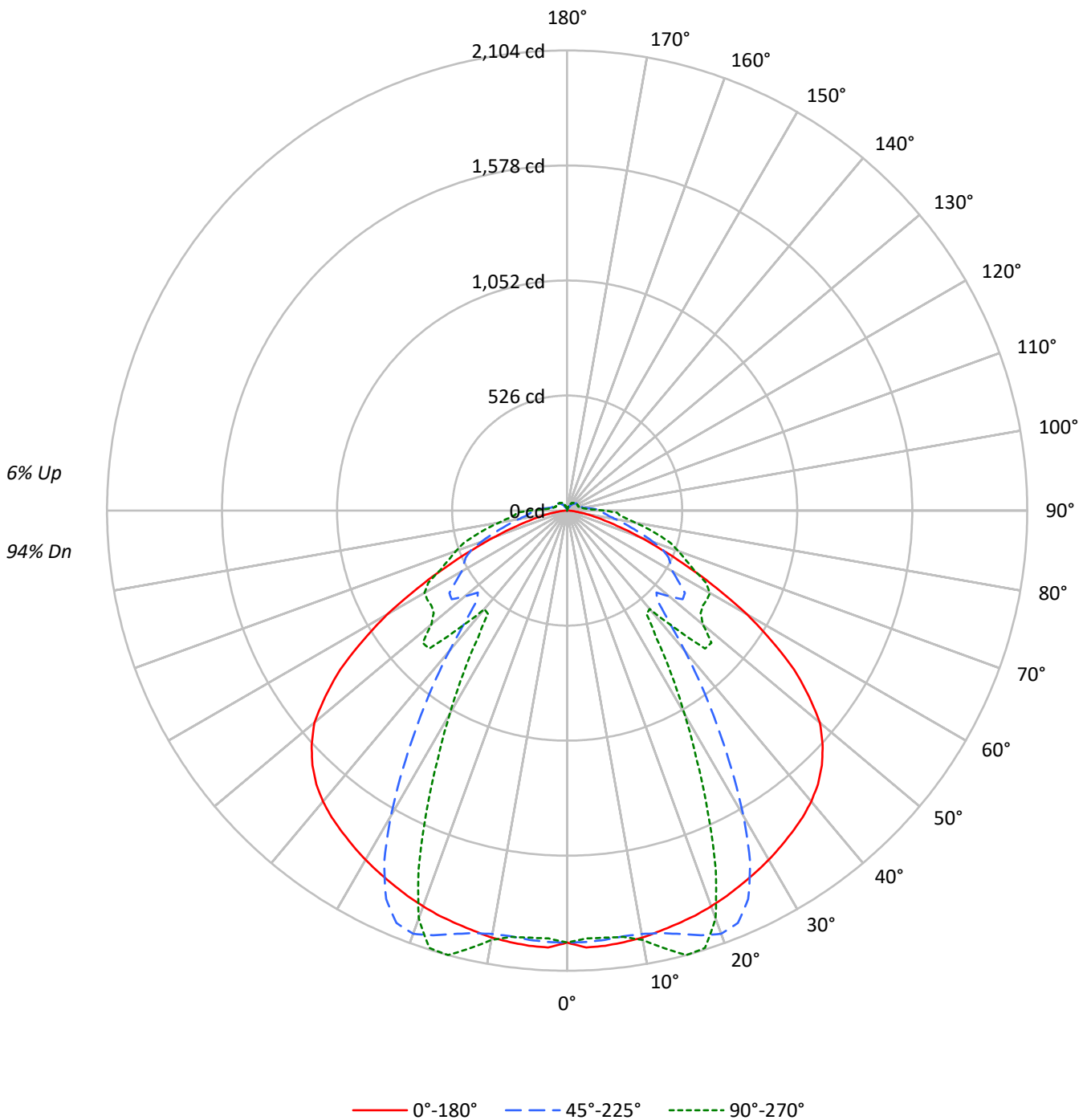
Lumens per Lamp: N/A
Luminaire Lumens: 5074.0 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	15962	15962	15962
5°	16156	15588	15397
10°	16177	15351	15343
15°	16221	15567	15992
20°	16372	16031	15011
25°	16576	15406	11558
30°	16903	12904	8221
35°	17322	9773	5567
40°	17850	7104	4714
45°	18256	5153	7411
50°	18281	5707	7033
55°	17088	6567	6945
60°	14559	6009	7382
65°	10953	6061	6752
70°	7687	5518	6286
75°	5036	4622	5640
80°	3214	3959	4696
85°	1735	3764	4215



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.9	3.7
10°-20°	567.5	11.2
20°-30°	824.4	16.2
30°-40°	787.7	15.5
40°-50°	720.5	14.2
50°-60°	665.3	13.1
60°-70°	528.4	10.4
70°-80°	326.2	6.4
80°-90°	177.6	3.5
90°-100°	89.8	1.8
100°-110°	56.4	1.1
110°-120°	47.8	0.9
120°-130°	39.0	0.8
130°-140°	28.0	0.6
140°-150°	17.3	0.3
150°-160°	8.2	0.2
160°-170°	2.1	0.0
170°-180°	0.0	0.0
0°-30°	1579.8	31.1
0°-40°	2367.5	46.7
0°-60°	3753.2	74.0
0°-90°	4785.5	94.3
90°-120°	194.0	3.8
90°-150°	278.2	5.5
90°-180°	289.0	5.7
0°-180°	5074.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1975	1975	1975	1975	1975	
5°	1997	1966	1970	1960	1960	190
15°	1955	1929	2004	2078	2104	553
25°	1886	1923	1960	1659	1523	872
35°	1794	1765	1190	819	713	1125
45°	1647	1149	581	741	892	1266
55°	1267	589	658	707	757	1116
65°	611	382	512	623	637	618
75°	180	204	307	407	434	204
85°	25	87	174	237	240	32
90°	1	65	156	184	170	1
95°	0	60	108	95	90	0
105°	0	54	66	60	60	0
115°	0	45	64	57	54	0
125°	1	36	57	55	52	1
135°	1	25	46	50	48	1
145°	1	16	32	40	43	1
155°	2	10	19	25	31	1
165°	2	5	10	12	17	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°	1975.3	1975.3	1975.3	1975.3	1975.3
2.5°	1999.7	1970.9	1974.4	1968.3	1957.8
5°	1997.1	1966.5	1970.0	1959.5	1960.4
7.5°	1990.1	1958.6	1963.0	1961.3	1965.6
10°	1982.3	1949.0	1965.6	1980.5	1993.6
12.5°	1968.3	1938.5	1978.8	2022.5	2049.6
15°	1955.1	1928.9	2004.1	2078.4	2103.8
17.5°	1942.0	1925.4	2035.6	2100.3	2096.8
20°	1925.4	1923.7	2059.2	2037.3	1984.0
22.5°	1907.1	1924.5	2040.8	1880.8	1775.9
25°	1886.1	1922.8	1959.5	1658.7	1523.2
27.5°	1865.1	1914.9	1811.7	1415.6	1281.9
30°	1844.1	1893.9	1612.4	1193.6	1072.0
32.5°	1819.6	1848.5	1395.5	996.8	884.9
35°	1794.3	1765.4	1190.1	819.3	712.6
37.5°	1768.0	1645.6	1005.6	663.7	595.5
40°	1736.5	1495.2	835.9	569.2	587.6
42.5°	1697.2	1325.6	686.4	597.2	724.9
45°	1647.4	1149.0	580.6	740.6	891.9
47.5°	1584.4	979.3	554.4	848.2	895.4
50°	1508.3	823.7	609.5	813.2	809.7
52.5°	1392.9	694.3	665.4	741.5	769.5
55°	1267.0	589.3	657.5	707.4	757.2
57.5°	1107.9	518.5	603.3	700.4	758.1
60°	949.6	471.3	557.0	699.5	753.7
62.5°	774.7	428.5	533.4	682.9	715.3
65°	611.2	382.1	512.4	622.6	637.4
67.5°	468.7	334.9	475.7	555.2	585.0
70°	353.3	288.6	418.0	503.7	540.4
72.5°	254.4	244.8	358.5	458.2	496.7
75°	180.1	203.7	306.9	406.6	433.7
77.5°	124.2	166.1	263.2	349.8	371.6
80°	81.3	132.9	223.8	300.8	315.7
82.5°	49.0	106.7	194.1	263.2	271.1
85°	25.4	86.6	174.0	237.0	240.5
87.5°	7.9	72.6	162.6	224.7	229.1
90°	0.9	64.7	155.6	184.5	170.5
92.5°	0.0	61.2	134.7	125.9	112.8
95°	0.0	60.3	107.6	95.3	90.1
97.5°	0.0	58.6	88.3	79.6	76.9
100°	0.0	56.8	76.1	70.0	69.1
102.5°	0.0	56.0	69.1	63.8	63.0
105°	0.0	54.2	66.5	60.3	59.5
107.5°	0.0	51.6	64.7	58.6	56.8
110°	0.0	49.0	64.7	57.7	55.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	46.3	64.7	56.8	54.2
115°	0.0	44.6	63.8	56.8	54.2
117.5°	0.9	42.8	63.0	56.8	54.2
120°	0.0	41.1	61.2	56.8	53.3
122.5°	0.9	38.5	59.5	56.0	53.3
125°	0.9	35.9	56.8	55.1	52.5
127.5°	0.9	33.2	54.2	53.3	50.7
130°	0.9	30.6	51.6	52.5	49.8
132.5°	0.9	28.0	48.1	50.7	49.0
135°	0.9	25.4	45.5	49.8	48.1
137.5°	0.9	22.7	42.0	47.2	47.2
140°	0.9	20.1	38.5	45.5	46.3
142.5°	0.9	18.4	35.0	43.7	44.6
145°	0.9	15.7	31.5	40.2	42.8
147.5°	0.9	14.0	28.0	36.7	40.2
150°	0.9	12.2	24.5	33.2	36.7
152.5°	0.9	10.5	21.9	28.9	34.1
155°	1.7	9.6	19.2	25.4	30.6
157.5°	1.7	7.9	15.7	21.9	26.2
160°	1.7	7.0	14.0	18.4	23.6
162.5°	1.7	6.1	11.4	15.7	20.1
165°	1.7	5.2	9.6	12.2	16.6
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)