

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-L830-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-L830-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

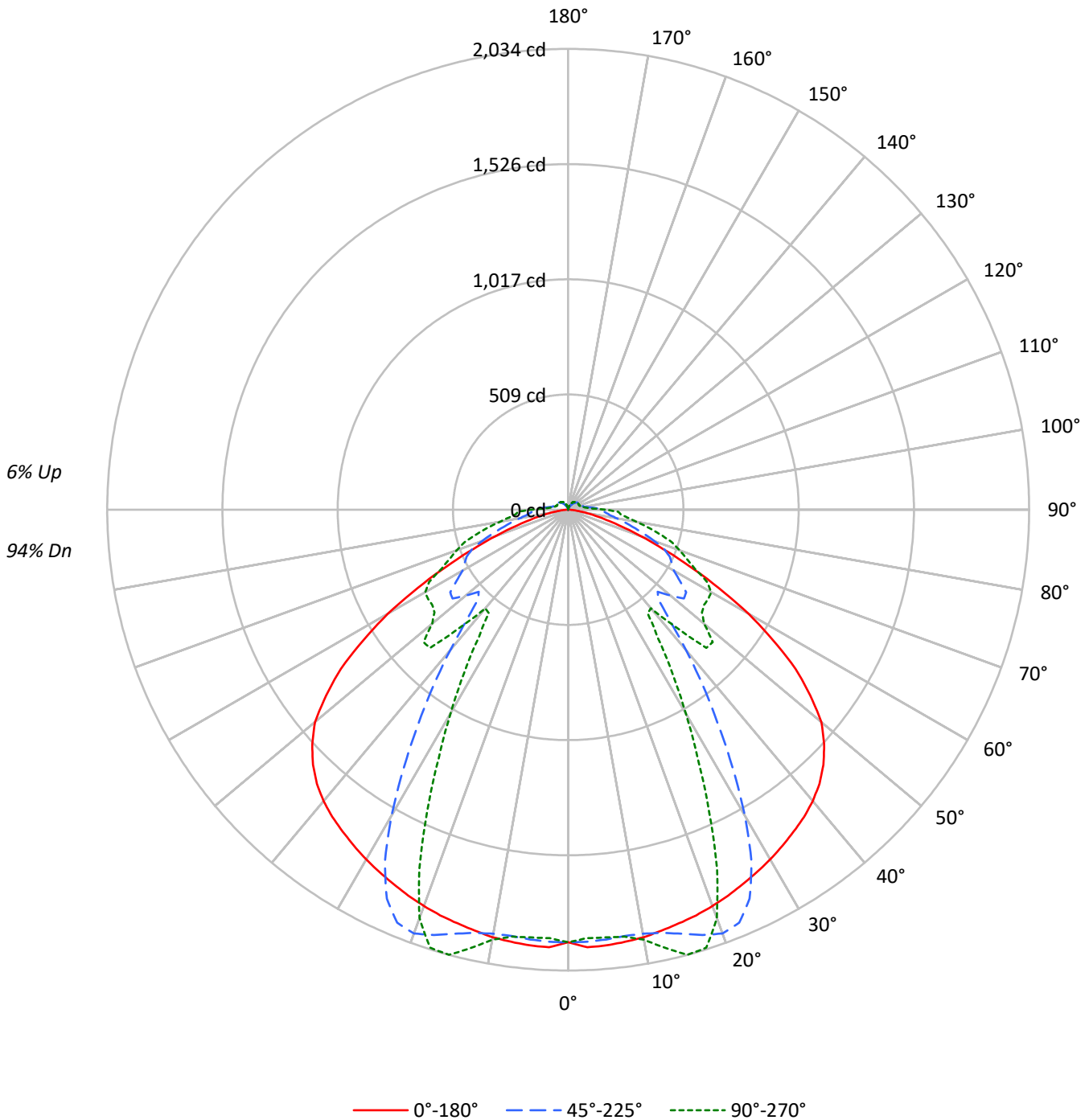
Lumens per Lamp: N/A
Luminaire Lumens: 4905.0 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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	64	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°	15431	15431	15431
5°	15618	15069	14884
10°	15638	14840	14832
15°	15681	15049	15459
20°	15826	15497	14511
25°	16024	14894	11174
30°	16340	12474	7947
35°	16745	9447	5382
40°	17256	6868	4557
45°	17648	4982	7164
50°	17673	5517	6799
55°	16519	6348	6714
60°	14075	5809	7136
65°	10587	5858	6528
70°	7431	5333	6076
75°	4868	4469	5453
80°	3107	3828	4538
85°	1674	3638	4073



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.7	3.7
10°-20°	548.6	11.2
20°-30°	796.9	16.2
30°-40°	761.4	15.5
40°-50°	696.5	14.2
50°-60°	643.1	13.1
60°-70°	510.8	10.4
70°-80°	315.3	6.4
80°-90°	171.7	3.5
90°-100°	86.8	1.8
100°-110°	54.5	1.1
110°-120°	46.2	0.9
120°-130°	37.7	0.8
130°-140°	27.1	0.6
140°-150°	16.7	0.3
150°-160°	7.9	0.2
160°-170°	2.1	0.0
170°-180°	0.0	0.0
0°-30°	1527.2	31.1
0°-40°	2288.6	46.7
0°-60°	3628.2	74.0
0°-90°	4626.0	94.3
90°-120°	187.5	3.8
90°-150°	269.0	5.5
90°-180°	279.0	5.7
0°-180°	4905.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1910	1910	1910	1910	1910	
5°	1931	1901	1904	1894	1895	184
15°	1890	1865	1937	2009	2034	535
25°	1823	1859	1894	1604	1472	843
35°	1734	1707	1150	792	689	1088
45°	1592	1111	561	716	862	1224
55°	1225	570	636	684	732	1079
65°	591	369	495	602	616	597
75°	174	197	297	393	419	197
85°	24	84	168	229	232	31
90°	1	63	150	178	165	1
95°	0	58	104	92	87	0
105°	0	52	64	58	58	0
115°	0	43	62	55	52	0
125°	1	35	55	53	51	1
135°	1	24	44	48	46	1
145°	1	15	30	39	41	1
155°	2	9	19	24	30	1
165°	2	5	9	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°	1909.5	1909.5	1909.5	1909.5	1909.5
2.5°	1933.1	1905.2	1908.6	1902.7	1892.6
5°	1930.6	1901.0	1904.4	1894.3	1895.1
7.5°	1923.8	1893.4	1897.6	1895.9	1900.2
10°	1916.2	1884.1	1900.2	1914.5	1927.2
12.5°	1902.7	1874.0	1912.9	1955.1	1981.3
15°	1890.0	1864.7	1937.4	2009.2	2033.7
17.5°	1877.3	1861.3	1967.8	2030.3	2027.0
20°	1861.3	1859.6	1990.6	1969.5	1917.9
22.5°	1843.5	1860.4	1972.9	1818.2	1716.7
25°	1823.3	1858.8	1894.3	1603.5	1472.5
27.5°	1803.0	1851.1	1751.4	1368.5	1239.2
30°	1782.7	1830.9	1558.7	1153.8	1036.3
32.5°	1759.0	1786.9	1349.1	963.6	855.4
35°	1734.5	1706.6	1150.4	792.0	688.9
37.5°	1709.1	1590.8	972.1	641.6	575.6
40°	1678.7	1445.4	808.1	550.3	568.0
42.5°	1640.7	1281.4	663.5	577.3	700.7
45°	1592.5	1110.7	561.3	715.9	862.2
47.5°	1531.6	946.7	535.9	819.9	865.6
50°	1458.1	796.2	589.2	786.1	782.7
52.5°	1346.5	671.1	643.3	716.8	743.8
55°	1224.8	569.7	635.6	683.8	732.0
57.5°	1071.0	501.2	583.2	677.1	732.9
60°	918.0	455.6	538.4	676.2	728.6
62.5°	748.9	414.2	515.6	660.2	691.4
65°	590.8	369.4	495.3	601.8	616.2
67.5°	453.1	323.7	459.8	536.7	565.5
70°	341.5	278.9	404.0	486.9	522.4
72.5°	246.0	236.7	346.6	442.9	480.1
75°	174.1	196.9	296.7	393.1	419.3
77.5°	120.0	160.6	254.4	338.1	359.2
80°	78.6	128.5	216.4	290.8	305.1
82.5°	47.3	103.1	187.7	254.4	262.0
85°	24.5	83.7	168.2	229.1	232.4
87.5°	7.6	70.2	157.2	217.2	221.5
90°	0.8	62.6	150.5	178.4	164.8
92.5°	0.0	59.2	130.2	121.7	109.0
95°	0.0	58.3	104.0	92.1	87.1
97.5°	0.0	56.6	85.4	76.9	74.4
100°	0.0	54.9	73.5	67.6	66.8
102.5°	0.0	54.1	66.8	61.7	60.9
105°	0.0	52.4	64.2	58.3	57.5
107.5°	0.0	49.9	62.6	56.6	54.9
110°	0.0	47.3	62.6	55.8	53.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	44.8	62.6	54.9	52.4
115°	0.0	43.1	61.7	54.9	52.4
117.5°	0.8	41.4	60.9	54.9	52.4
120°	0.0	39.7	59.2	54.9	51.6
122.5°	0.8	37.2	57.5	54.1	51.6
125°	0.8	34.7	54.9	53.3	50.7
127.5°	0.8	32.1	52.4	51.6	49.0
130°	0.8	29.6	49.9	50.7	48.2
132.5°	0.8	27.0	46.5	49.0	47.3
135°	0.8	24.5	44.0	48.2	46.5
137.5°	0.8	22.0	40.6	45.6	45.6
140°	0.8	19.4	37.2	44.0	44.8
142.5°	0.8	17.8	33.8	42.3	43.1
145°	0.8	15.2	30.4	38.9	41.4
147.5°	0.8	13.5	27.0	35.5	38.9
150°	0.8	11.8	23.7	32.1	35.5
152.5°	0.8	10.1	21.1	27.9	33.0
155°	1.7	9.3	18.6	24.5	29.6
157.5°	1.7	7.6	15.2	21.1	25.4
160°	1.7	6.8	13.5	17.8	22.8
162.5°	1.7	5.9	11.0	15.2	19.4
165°	1.7	5.1	9.3	11.8	16.1
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)