

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4892.0 lumens
Efficiency: N/A
Efficacy: 128.7 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

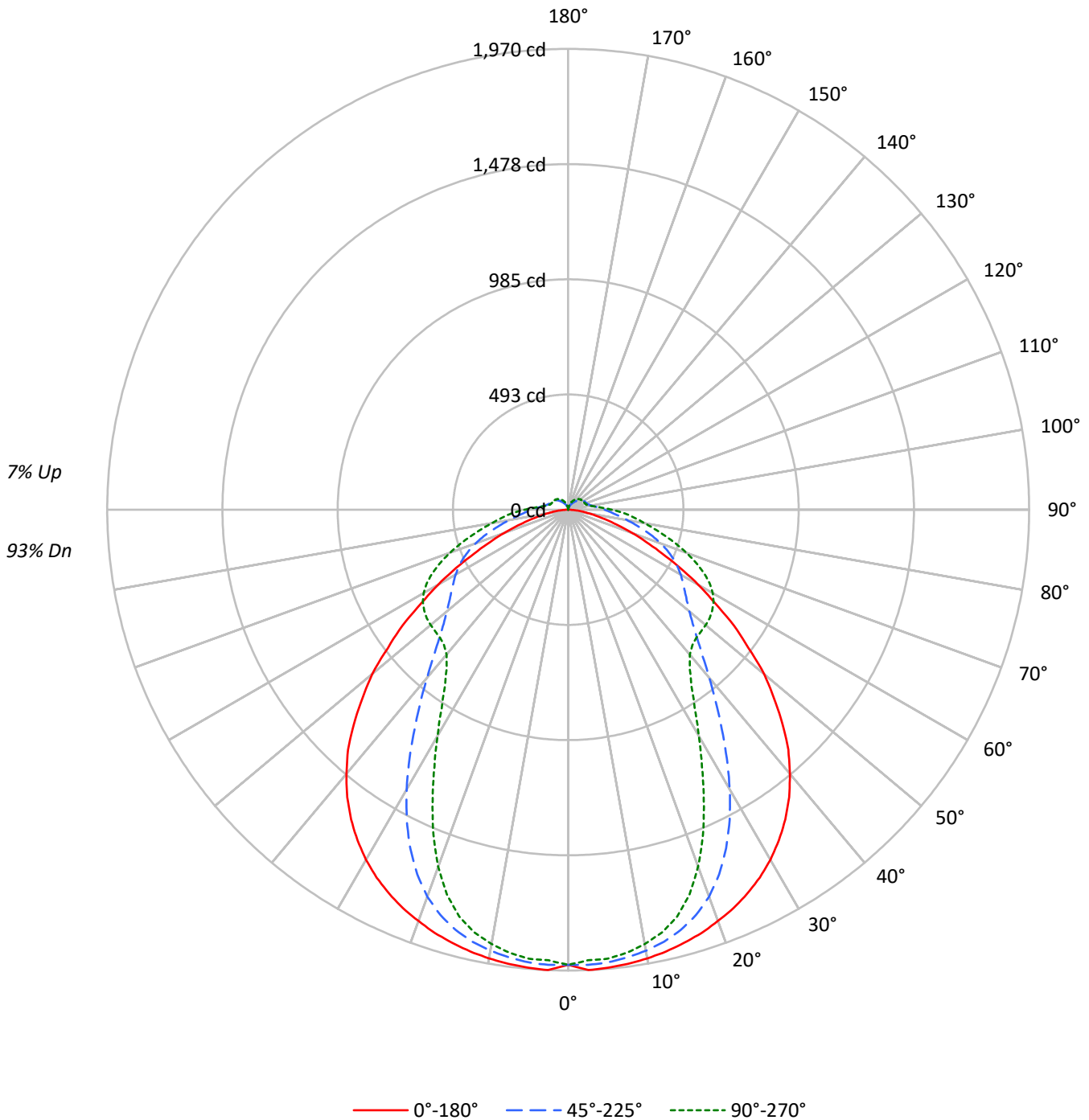
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	15720	15720	15720
5°	15900	15372	15132
10°	15895	14948	14509
15°	15900	14447	13681
20°	15908	13702	12287
25°	15914	12556	10405
30°	15838	11048	8558
35°	15612	9400	7172
40°	15156	7961	6484
45°	14352	6919	6435
50°	13259	6325	6660
55°	11676	6079	6894
60°	9851	5992	6988
65°	7923	5860	6770
70°	6365	5557	6244
75°	4798	5029	5541
80°	3542	4516	4929
85°	2371	4261	4534



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.0	3.8
10°-20°	520.2	10.6
20°-30°	727.2	14.9
30°-40°	754.3	15.4
40°-50°	696.8	14.2
50°-60°	622.1	12.7
60°-70°	504.2	10.3
70°-80°	335.3	6.9
80°-90°	192.0	3.9
90°-100°	106.2	2.2
100°-110°	71.9	1.5
110°-120°	59.9	1.2
120°-130°	48.7	1.0
130°-140°	35.1	0.7
140°-150°	21.2	0.4
150°-160°	10.2	0.2
160°-170°	2.6	0.1
170°-180°	0.0	0.0
0°-30°	1431.4	29.3
0°-40°	2185.6	44.7
0°-60°	3504.6	71.6
0°-90°	4536.1	92.7
90°-120°	238.1	4.9
90°-150°	343.1	7.0
90°-180°	356.0	7.3
0°-180°	4892.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1945	1945	1945	1945	1945	
5°	1966	1933	1943	1929	1927	187
15°	1916	1876	1860	1818	1800	542
25°	1811	1730	1597	1430	1371	834
35°	1617	1440	1145	961	918	1009
45°	1295	1026	780	752	774	996
55°	866	654	609	708	752	770
65°	442	396	495	607	639	447
75°	172	215	334	409	426	188
85°	35	100	197	252	259	40
90°	2	70	156	188	186	3
95°	2	59	123	132	128	1
105°	1	52	89	86	82	1
115°	1	46	79	78	75	1
125°	1	40	69	73	71	1
135°	2	30	55	64	64	1
145°	2	19	38	50	53	1
155°	2	12	24	31	38	1
165°	2	7	12	15	20	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°	1945.3	1945.3	1945.3	1945.3	1945.3
2.5°	1969.8	1937.6	1947.8	1939.3	1928.3
5°	1965.5	1932.6	1942.7	1929.2	1926.7
7.5°	1957.9	1925.0	1930.9	1914.8	1910.6
10°	1947.8	1913.1	1914.0	1891.1	1885.2
12.5°	1934.3	1896.2	1891.1	1859.9	1851.4
15°	1916.5	1875.9	1859.9	1817.6	1799.8
17.5°	1897.1	1849.7	1816.8	1751.7	1723.8
20°	1870.9	1817.6	1760.1	1661.2	1624.0
22.5°	1844.7	1778.7	1686.6	1554.7	1504.8
25°	1810.8	1730.5	1597.0	1429.6	1371.2
27.5°	1772.8	1673.9	1493.8	1301.1	1238.5
30°	1728.0	1605.4	1380.5	1175.1	1115.9
32.5°	1675.6	1528.5	1261.3	1061.8	1006.9
35°	1617.2	1439.7	1144.7	961.2	918.1
37.5°	1550.5	1342.5	1036.5	880.1	852.2
40°	1474.4	1236.8	936.7	817.5	808.2
42.5°	1392.4	1133.7	851.3	776.9	785.4
45°	1295.1	1026.3	779.5	751.6	774.4
47.5°	1192.9	921.5	721.1	737.2	770.2
50°	1093.9	824.3	675.5	727.9	766.8
52.5°	971.4	737.2	639.1	719.4	761.7
55°	865.7	654.3	608.7	707.6	751.6
57.5°	743.9	579.9	581.6	692.4	736.3
60°	642.5	512.3	555.4	671.2	713.5
62.5°	539.4	451.4	526.7	643.3	681.4
65°	442.1	395.6	495.4	607.0	639.1
67.5°	361.0	344.9	459.9	563.0	590.1
70°	292.5	298.4	421.0	514.0	536.8
72.5°	224.9	255.3	378.7	461.6	481.0
75°	171.6	214.7	333.9	409.2	426.1
77.5°	126.8	179.2	293.4	361.8	376.2
80°	89.6	147.9	255.3	320.4	331.4
82.5°	60.0	121.7	224.0	283.2	293.4
85°	34.7	99.8	197.0	251.9	258.7
87.5°	14.4	82.8	175.0	219.8	223.2
90°	1.7	70.2	155.6	187.7	186.0
92.5°	1.7	63.4	138.6	157.2	153.0
95°	1.7	59.2	123.4	131.9	127.7
97.5°	1.7	56.6	109.9	113.3	109.1
100°	0.8	55.0	100.6	100.6	96.4
102.5°	0.8	53.3	93.8	91.3	87.9
105°	0.8	51.6	88.8	86.2	82.0
107.5°	0.8	50.7	85.4	82.8	78.6
110°	0.8	49.0	82.8	80.3	76.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	48.2	81.2	79.5	75.2
115°	0.8	46.5	78.6	77.8	75.2
117.5°	0.8	44.8	76.9	76.9	74.4
120°	0.8	43.1	74.4	76.1	73.5
122.5°	0.8	41.4	71.9	74.4	71.9
125°	0.8	39.7	69.3	72.7	71.0
127.5°	1.7	37.2	65.9	71.0	69.3
130°	0.8	34.7	62.6	69.3	68.5
132.5°	1.7	32.1	59.2	66.8	66.8
135°	1.7	29.6	55.0	64.3	64.3
137.5°	1.7	26.2	50.7	60.9	61.7
140°	1.7	23.7	46.5	57.5	59.2
142.5°	1.7	21.1	42.3	54.1	56.6
145°	1.7	18.6	38.0	49.9	53.3
147.5°	1.7	16.9	33.8	44.8	49.9
150°	1.7	14.4	30.4	40.6	45.7
152.5°	1.7	12.7	27.1	36.4	42.3
155°	1.7	11.8	23.7	31.3	38.0
157.5°	1.7	10.1	20.3	27.1	33.8
160°	1.7	8.5	16.9	23.7	28.7
162.5°	1.7	7.6	14.4	19.4	25.4
165°	1.7	6.8	11.8	15.2	20.3
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)