

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-L935-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-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

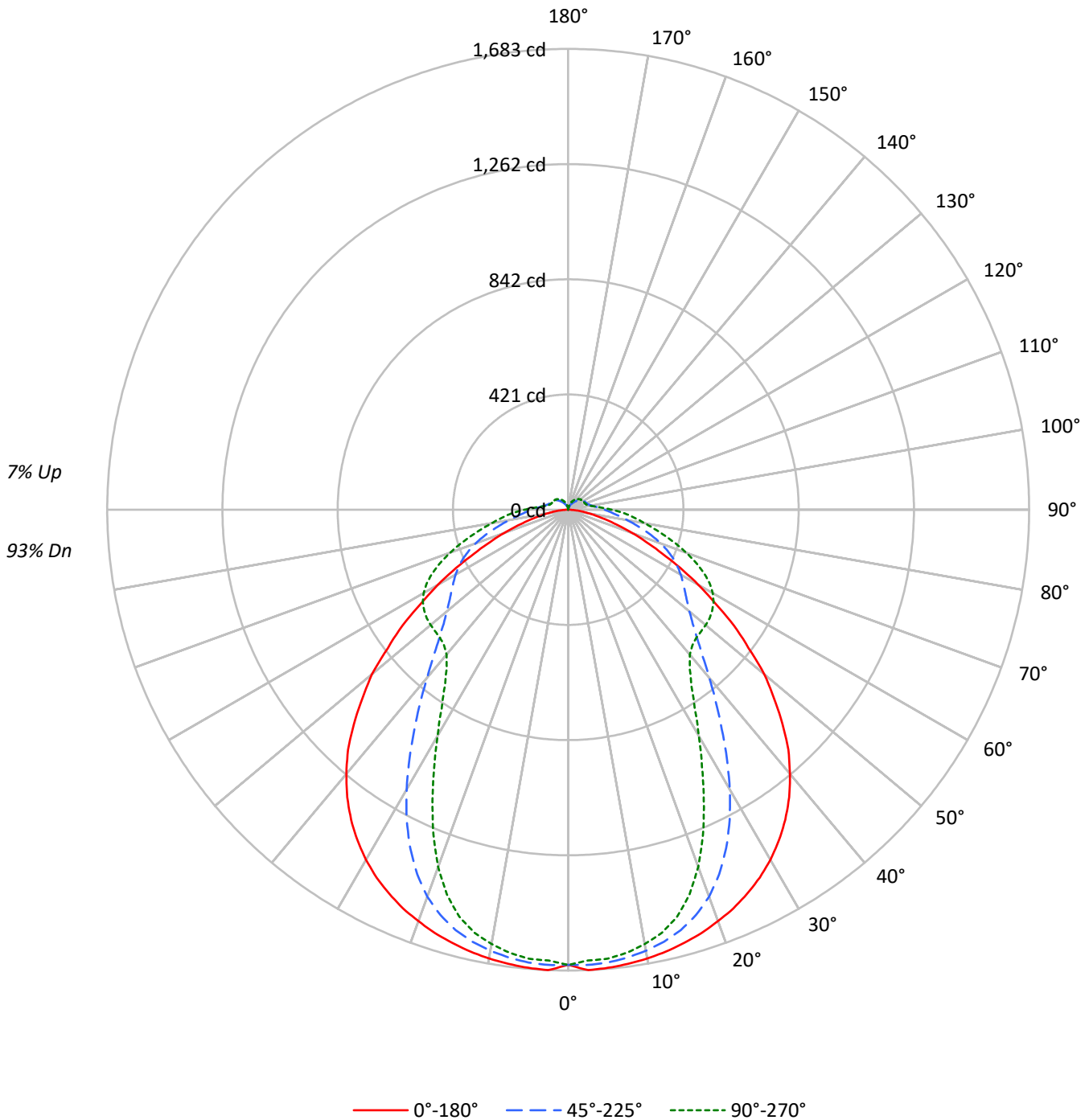
Lumens per Lamp: N/A
Luminaire Lumens: 4180.0 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	13431	13431	13431
5°	13587	13135	12929
10°	13582	12772	12397
15°	13587	12344	11690
20°	13593	11708	10498
25°	13598	10728	8891
30°	13533	9440	7312
35°	13341	8032	6128
40°	12950	6802	5540
45°	12263	5912	5498
50°	11329	5405	5691
55°	9976	5195	5890
60°	8417	5120	5972
65°	6770	5007	5785
70°	5438	4748	5335
75°	4099	4297	4735
80°	3028	3860	4212
85°	2022	3640	3873



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.3	3.8
10°-20°	444.5	10.6
20°-30°	621.3	14.9
30°-40°	644.5	15.4
40°-50°	595.4	14.2
50°-60°	531.6	12.7
60°-70°	430.8	10.3
70°-80°	286.5	6.9
80°-90°	164.1	3.9
90°-100°	90.8	2.2
100°-110°	61.5	1.5
110°-120°	51.2	1.2
120°-130°	41.6	1.0
130°-140°	30.0	0.7
140°-150°	18.1	0.4
150°-160°	8.7	0.2
160°-170°	2.2	0.1
170°-180°	0.0	0.0
0°-30°	1223.0	29.3
0°-40°	1867.5	44.7
0°-60°	2994.5	71.6
0°-90°	3875.9	92.7
90°-120°	203.4	4.9
90°-150°	293.1	7.0
90°-180°	304.0	7.3
0°-180°	4180.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1662	1662	1662	1662	1662	
5°	1680	1651	1660	1648	1646	160
15°	1638	1603	1589	1553	1538	463
25°	1547	1479	1364	1222	1172	713
35°	1382	1230	978	821	784	862
45°	1107	877	666	642	662	851
55°	740	559	520	605	642	658
65°	378	338	423	519	546	382
75°	147	184	285	350	364	161
85°	30	85	168	215	221	34
90°	1	60	133	160	159	2
95°	1	51	106	113	109	1
105°	1	44	76	74	70	1
115°	1	40	67	66	64	1
125°	1	34	59	62	61	1
135°	1	25	47	55	55	1
145°	1	16	32	43	46	1
155°	1	10	20	27	32	1
165°	1	6	10	13	17	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-49SL-SLN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1662.1	1662.1	1662.1	1662.1	1662.1
2.5°	1683.1	1655.6	1664.3	1657.1	1647.7
5°	1679.5	1651.3	1660.0	1648.4	1646.2
7.5°	1673.0	1644.8	1649.9	1636.1	1632.5
10°	1664.3	1634.7	1635.4	1615.9	1610.8
12.5°	1652.7	1620.2	1615.9	1589.2	1582.0
15°	1637.6	1602.9	1589.2	1553.1	1537.9
17.5°	1621.0	1580.5	1552.3	1496.7	1472.9
20°	1598.6	1553.1	1503.9	1419.4	1387.6
22.5°	1576.2	1519.8	1441.1	1328.4	1285.8
25°	1547.3	1478.7	1364.5	1221.5	1171.7
27.5°	1514.8	1430.3	1276.4	1111.7	1058.2
30°	1476.5	1371.7	1179.6	1004.1	953.5
32.5°	1431.7	1306.0	1077.8	907.3	860.3
35°	1381.9	1230.2	978.1	821.3	784.5
37.5°	1324.8	1147.1	885.6	752.0	728.1
40°	1259.8	1056.8	800.4	698.5	690.6
42.5°	1189.7	968.7	727.4	663.8	671.1
45°	1106.6	876.9	666.0	642.2	661.7
47.5°	1019.2	787.4	616.2	629.9	658.1
50°	934.7	704.3	577.2	621.9	655.2
52.5°	830.0	629.9	546.1	614.7	650.8
55°	739.7	559.1	520.1	604.6	642.2
57.5°	635.7	495.5	497.0	591.6	629.2
60°	549.0	437.7	474.6	573.5	609.7
62.5°	460.9	385.7	450.0	549.7	582.2
65°	377.8	338.1	423.3	518.6	546.1
67.5°	308.4	294.7	393.0	481.1	504.2
70°	249.9	255.0	359.7	439.2	458.7
72.5°	192.1	218.2	323.6	394.4	411.0
75°	146.6	183.5	285.3	349.6	364.1
77.5°	108.4	153.1	250.7	309.2	321.4
80°	76.6	126.4	218.2	273.8	283.2
82.5°	51.3	104.0	191.4	242.0	250.7
85°	29.6	85.2	168.3	215.3	221.0
87.5°	12.3	70.8	149.5	187.8	190.7
90°	1.4	60.0	132.9	160.4	158.9
92.5°	1.4	54.2	118.5	134.4	130.7
95°	1.4	50.6	105.5	112.7	109.1
97.5°	1.4	48.4	93.9	96.8	93.2
100°	0.7	47.0	86.0	86.0	82.3
102.5°	0.7	45.5	80.2	78.0	75.1
105°	0.7	44.1	75.8	73.7	70.1
107.5°	0.7	43.3	73.0	70.8	67.2
110°	0.7	41.9	70.8	68.6	65.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	41.2	69.3	67.9	64.3
115°	0.7	39.7	67.2	66.5	64.3
117.5°	0.7	38.3	65.7	65.7	63.6
120°	0.7	36.8	63.6	65.0	62.8
122.5°	0.7	35.4	61.4	63.6	61.4
125°	0.7	34.0	59.2	62.1	60.7
127.5°	1.4	31.8	56.3	60.7	59.2
130°	0.7	29.6	53.5	59.2	58.5
132.5°	1.4	27.4	50.6	57.1	57.1
135°	1.4	25.3	47.0	54.9	54.9
137.5°	1.4	22.4	43.3	52.0	52.7
140°	1.4	20.2	39.7	49.1	50.6
142.5°	1.4	18.1	36.1	46.2	48.4
145°	1.4	15.9	32.5	42.6	45.5
147.5°	1.4	14.4	28.9	38.3	42.6
150°	1.4	12.3	26.0	34.7	39.0
152.5°	1.4	10.8	23.1	31.1	36.1
155°	1.4	10.1	20.2	26.7	32.5
157.5°	1.4	8.7	17.3	23.1	28.9
160°	1.4	7.2	14.4	20.2	24.6
162.5°	1.4	6.5	12.3	16.6	21.7
165°	1.4	5.8	10.1	13.0	17.3
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)