

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

Summary

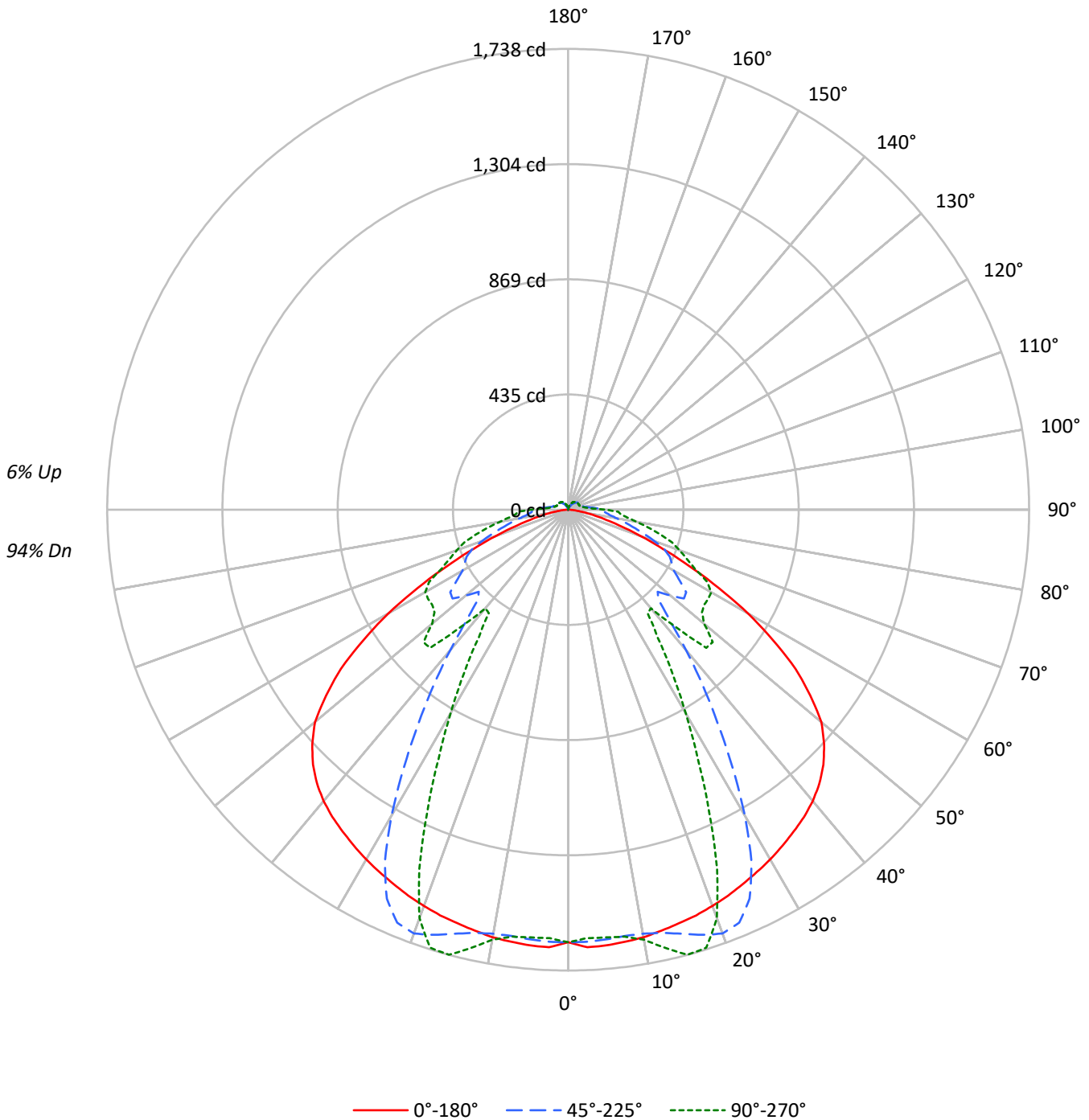
Lumens per Lamp: N/A
Luminaire Lumens: 4190.9 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 38
Input Voltage (V): NR
Input Current (A_{in}): 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°	13184	13184	13184
5°	13345	12876	12717
10°	13362	12680	12673
15°	13398	12858	13209
20°	13522	13241	12398
25°	13690	12725	9547
30°	13961	10658	6791
35°	14307	8072	4598
40°	14744	5868	3893
45°	15079	4257	6121
50°	15100	4714	5809
55°	14114	5424	5737
60°	12025	4964	6098
65°	9046	5006	5578
70°	6349	4557	5191
75°	4161	3818	4658
80°	2656	3271	3877
85°	1428	3108	3481



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.2	3.7
10°-20°	468.7	11.2
20°-30°	680.9	16.2
30°-40°	650.6	15.5
40°-50°	595.1	14.2
50°-60°	549.5	13.1
60°-70°	436.5	10.4
70°-80°	269.4	6.4
80°-90°	146.7	3.5
90°-100°	74.1	1.8
100°-110°	46.6	1.1
110°-120°	39.5	0.9
120°-130°	32.2	0.8
130°-140°	23.1	0.6
140°-150°	14.3	0.3
150°-160°	6.8	0.2
160°-170°	1.8	0.0
170°-180°	0.0	0.0
0°-30°	1304.9	31.1
0°-40°	1955.5	46.7
0°-60°	3100.1	74.0
0°-90°	3952.6	94.3
90°-120°	160.2	3.8
90°-150°	229.8	5.5
90°-180°	238.0	5.7
0°-180°	4190.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1632	1632	1632	1632	1632	
5°	1650	1624	1627	1618	1619	157
15°	1615	1593	1655	1717	1738	457
25°	1558	1588	1618	1370	1258	720
35°	1482	1458	983	677	589	929
45°	1361	949	480	612	737	1046
55°	1046	487	543	584	626	922
65°	505	316	423	514	526	510
75°	149	168	254	336	358	169
85°	21	72	144	196	199	27
90°	1	53	129	152	141	1
95°	0	50	89	79	74	0
105°	0	45	55	50	49	0
115°	0	37	53	47	45	0
125°	1	30	47	46	43	1
135°	1	21	38	41	40	1
145°	1	13	26	33	35	0
155°	1	8	16	21	25	1
165°	1	4	8	10	14	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°	1631.5	1631.5	1631.5	1631.5	1631.5
2.5°	1651.7	1627.9	1630.8	1625.7	1617.1
5°	1649.6	1624.3	1627.2	1618.5	1619.2
7.5°	1643.8	1617.8	1621.4	1620.0	1623.6
10°	1637.3	1609.8	1623.6	1635.8	1646.7
12.5°	1625.7	1601.2	1634.4	1670.5	1692.9
15°	1614.9	1593.2	1655.3	1716.7	1737.7
17.5°	1604.1	1590.3	1681.4	1734.8	1731.9
20°	1590.3	1588.9	1700.9	1682.8	1638.7
22.5°	1575.2	1589.6	1685.7	1553.5	1466.8
25°	1557.8	1588.2	1618.5	1370.1	1258.1
27.5°	1540.5	1581.7	1496.5	1169.3	1058.8
30°	1523.2	1564.3	1331.8	985.8	885.5
32.5°	1503.0	1526.8	1152.7	823.3	730.9
35°	1482.0	1458.2	983.0	676.7	588.6
37.5°	1460.3	1359.2	830.6	548.2	491.8
40°	1434.3	1235.0	690.5	470.2	485.3
42.5°	1401.8	1094.9	567.0	493.3	598.7
45°	1360.7	949.0	479.6	611.7	736.7
47.5°	1308.7	808.9	457.9	700.6	739.6
50°	1245.8	680.3	503.4	671.7	668.8
52.5°	1150.5	573.5	549.6	612.5	635.6
55°	1046.5	486.8	543.1	584.3	625.5
57.5°	915.1	428.3	498.3	578.5	626.2
60°	784.3	389.3	460.1	577.8	622.6
62.5°	639.9	353.9	440.6	564.1	590.8
65°	504.8	315.6	423.2	514.2	526.5
67.5°	387.1	276.6	392.9	458.6	483.2
70°	291.8	238.3	345.2	416.0	446.3
72.5°	210.2	202.2	296.1	378.4	410.2
75°	148.8	168.3	253.5	335.8	358.2
77.5°	102.6	137.2	217.4	288.9	306.9
80°	67.2	109.8	184.9	248.4	260.7
82.5°	40.4	88.1	160.3	217.4	223.9
85°	20.9	71.5	143.7	195.7	198.6
87.5°	6.5	59.9	134.3	185.6	189.2
90°	0.7	53.4	128.6	152.4	140.8
92.5°	0.0	50.6	111.2	104.0	93.2
95°	0.0	49.8	88.8	78.7	74.4
97.5°	0.0	48.4	72.9	65.7	63.6
100°	0.0	46.9	62.8	57.8	57.1
102.5°	0.0	46.2	57.1	52.7	52.0
105°	0.0	44.8	54.9	49.8	49.1
107.5°	0.0	42.6	53.4	48.4	46.9
110°	0.0	40.4	53.4	47.7	45.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	38.3	53.4	46.9	44.8
115°	0.0	36.8	52.7	46.9	44.8
117.5°	0.7	35.4	52.0	46.9	44.8
120°	0.0	33.9	50.6	46.9	44.1
122.5°	0.7	31.8	49.1	46.2	44.1
125°	0.7	29.6	46.9	45.5	43.3
127.5°	0.7	27.4	44.8	44.1	41.9
130°	0.7	25.3	42.6	43.3	41.2
132.5°	0.7	23.1	39.7	41.9	40.4
135°	0.7	20.9	37.6	41.2	39.7
137.5°	0.7	18.8	34.7	39.0	39.0
140°	0.7	16.6	31.8	37.6	38.3
142.5°	0.7	15.2	28.9	36.1	36.8
145°	0.7	13.0	26.0	33.2	35.4
147.5°	0.7	11.6	23.1	30.3	33.2
150°	0.7	10.1	20.2	27.4	30.3
152.5°	0.7	8.7	18.1	23.8	28.2
155°	1.4	7.9	15.9	20.9	25.3
157.5°	1.4	6.5	13.0	18.1	21.7
160°	1.4	5.8	11.6	15.2	19.5
162.5°	1.4	5.1	9.4	13.0	16.6
165°	1.4	4.3	7.9	10.1	13.7
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)