

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-L950-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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

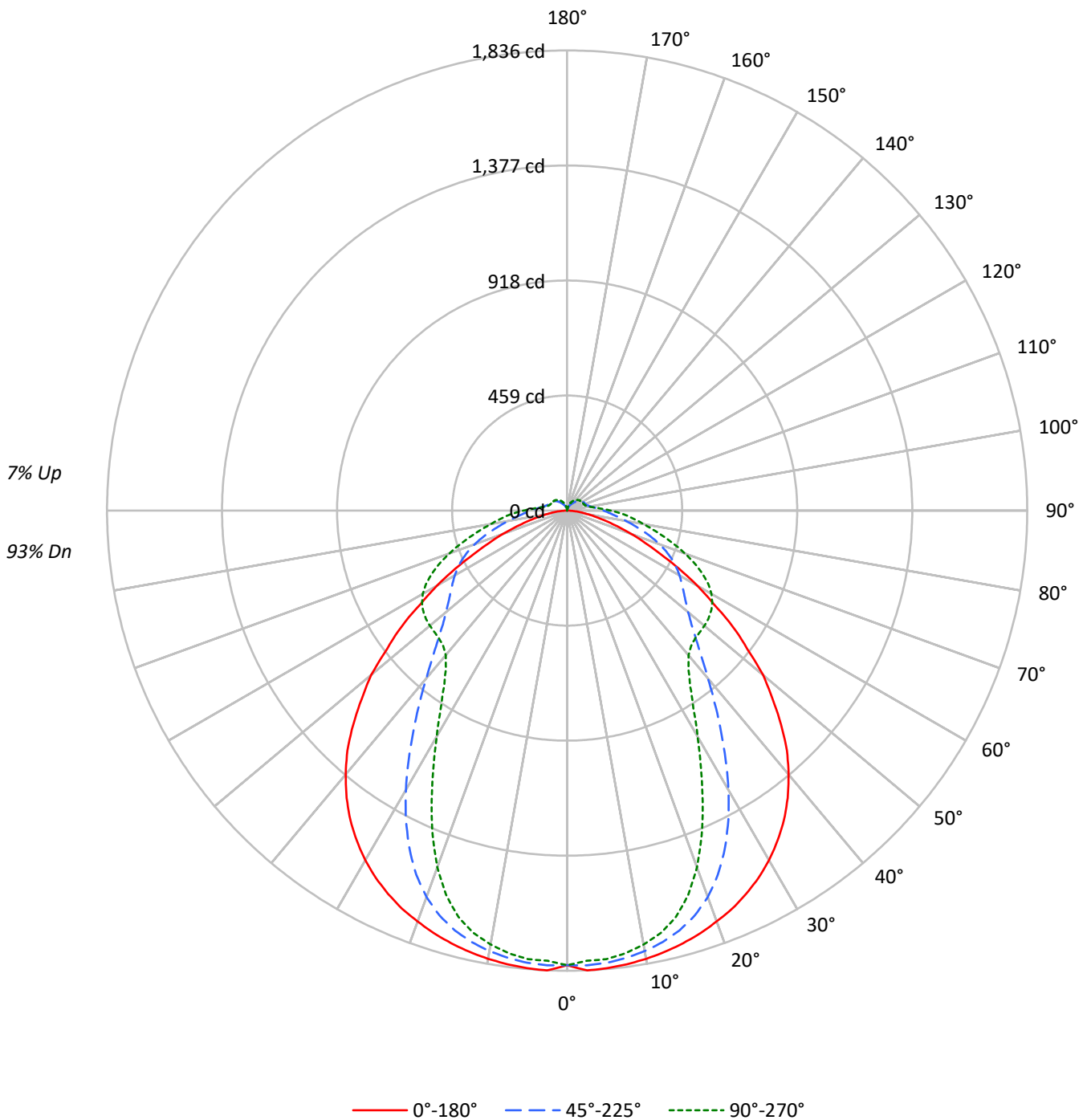
Lumens per Lamp: N/A
Luminaire Lumens: 4561.0 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	14656	14656	14656
5°	14825	14333	14108
10°	14820	13936	13528
15°	14824	13469	12756
20°	14832	12775	11456
25°	14837	11706	9701
30°	14767	10300	7979
35°	14556	8764	6687
40°	14130	7422	6045
45°	13381	6450	5999
50°	12362	5897	6210
55°	10885	5668	6427
60°	9184	5587	6515
65°	7387	5463	6313
70°	5934	5181	5822
75°	4474	4689	5167
80°	3301	4210	4596
85°	2207	3971	4227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	3.8
10°-20°	485.0	10.6
20°-30°	678.0	14.9
30°-40°	703.2	15.4
40°-50°	649.7	14.2
50°-60°	580.0	12.7
60°-70°	470.1	10.3
70°-80°	312.6	6.9
80°-90°	179.0	3.9
90°-100°	99.1	2.2
100°-110°	67.1	1.5
110°-120°	55.8	1.2
120°-130°	45.4	1.0
130°-140°	32.8	0.7
140°-150°	19.7	0.4
150°-160°	9.5	0.2
160°-170°	2.5	0.1
170°-180°	0.0	0.0
0°-30°	1334.5	29.3
0°-40°	2037.7	44.7
0°-60°	3267.4	71.6
0°-90°	4229.1	92.7
90°-120°	222.0	4.9
90°-150°	319.9	7.0
90°-180°	332.0	7.3
0°-180°	4561.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1814	1814	1814	1814	1814	
5°	1833	1802	1811	1799	1796	174
15°	1787	1749	1734	1695	1678	505
25°	1688	1613	1489	1333	1278	778
35°	1508	1342	1067	896	856	941
45°	1208	957	727	701	722	928
55°	807	610	568	660	701	718
65°	412	369	462	566	596	417
75°	160	200	311	382	397	175
85°	32	93	184	235	241	37
90°	2	65	145	175	173	2
95°	2	55	115	123	119	1
105°	1	48	83	80	76	1
115°	1	43	73	72	70	1
125°	1	37	65	68	66	1
135°	2	28	51	60	60	1
145°	2	17	36	46	50	1
155°	2	11	22	29	36	1
165°	2	6	11	14	19	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°	1813.6	1813.6	1813.6	1813.6	1813.6
2.5°	1836.5	1806.5	1816.0	1808.1	1797.9
5°	1832.6	1801.8	1811.3	1798.7	1796.3
7.5°	1825.5	1794.7	1800.2	1785.3	1781.3
10°	1816.0	1783.7	1784.5	1763.2	1757.7
12.5°	1803.4	1767.9	1763.2	1734.0	1726.1
15°	1786.8	1749.0	1734.0	1694.6	1678.1
17.5°	1768.7	1724.6	1693.8	1633.1	1607.1
20°	1744.3	1694.6	1641.0	1548.8	1514.1
22.5°	1719.8	1658.4	1572.4	1449.5	1403.0
25°	1688.3	1613.4	1488.9	1332.8	1278.5
27.5°	1652.8	1560.6	1392.7	1213.0	1154.7
30°	1611.1	1496.8	1287.1	1095.6	1040.4
32.5°	1562.2	1425.1	1176.0	990.0	938.7
35°	1507.8	1342.3	1067.2	896.2	856.0
37.5°	1445.5	1251.7	966.3	820.5	794.5
40°	1374.6	1153.1	873.3	762.2	753.5
42.5°	1298.2	1057.0	793.7	724.4	732.2
45°	1207.5	956.9	726.7	700.7	722.0
47.5°	1112.1	859.1	672.3	687.3	718.0
50°	1019.9	768.5	629.8	678.6	714.9
52.5°	905.6	687.3	595.9	670.8	710.2
55°	807.1	610.1	567.5	659.7	700.7
57.5°	693.6	540.7	542.3	645.5	686.5
60°	599.0	477.6	517.8	625.8	665.2
62.5°	502.9	420.9	491.0	599.8	635.3
65°	412.2	368.9	461.9	565.9	595.9
67.5°	336.6	321.6	428.8	524.9	550.2
70°	272.7	278.2	392.5	479.2	500.5
72.5°	209.7	238.0	353.1	430.4	448.5
75°	160.0	200.2	311.3	381.5	397.3
77.5°	118.2	167.1	273.5	337.3	350.7
80°	83.5	137.9	238.0	298.7	309.0
82.5°	56.0	113.5	208.9	264.0	273.5
85°	32.3	93.0	183.6	234.9	241.2
87.5°	13.4	77.2	163.2	204.9	208.1
90°	1.6	65.4	145.0	175.0	173.4
92.5°	1.6	59.1	129.3	146.6	142.7
95°	1.6	55.2	115.1	123.0	119.0
97.5°	1.6	52.8	102.5	105.6	101.7
100°	0.8	51.2	93.8	93.8	89.9
102.5°	0.8	49.7	87.5	85.1	82.0
105°	0.8	48.1	82.8	80.4	76.5
107.5°	0.8	47.3	79.6	77.2	73.3
110°	0.8	45.7	77.2	74.9	71.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	44.9	75.7	74.1	70.1
115°	0.8	43.4	73.3	72.5	70.1
117.5°	0.8	41.8	71.7	71.7	69.4
120°	0.8	40.2	69.4	70.9	68.6
122.5°	0.8	38.6	67.0	69.4	67.0
125°	0.8	37.0	64.6	67.8	66.2
127.5°	1.6	34.7	61.5	66.2	64.6
130°	0.8	32.3	58.3	64.6	63.8
132.5°	1.6	30.0	55.2	62.3	62.3
135°	1.6	27.6	51.2	59.9	59.9
137.5°	1.6	24.4	47.3	56.8	57.5
140°	1.6	22.1	43.4	53.6	55.2
142.5°	1.6	19.7	39.4	50.4	52.8
145°	1.6	17.3	35.5	46.5	49.7
147.5°	1.6	15.8	31.5	41.8	46.5
150°	1.6	13.4	28.4	37.8	42.6
152.5°	1.6	11.8	25.2	33.9	39.4
155°	1.6	11.0	22.1	29.2	35.5
157.5°	1.6	9.5	18.9	25.2	31.5
160°	1.6	7.9	15.8	22.1	26.8
162.5°	1.6	7.1	13.4	18.1	23.6
165°	1.6	6.3	11.0	14.2	18.9
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)