

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-L940-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-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

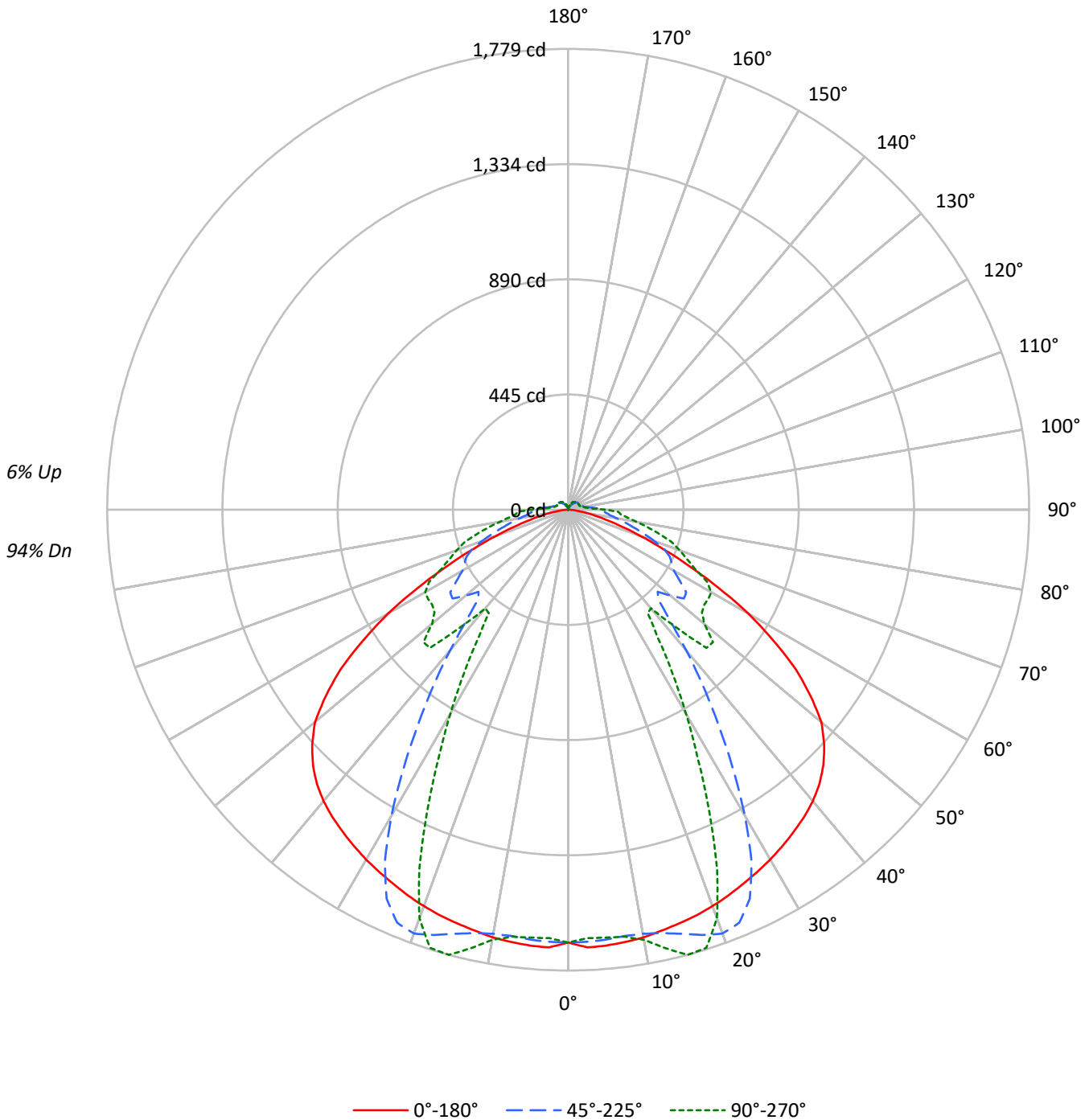
Lumens per Lamp: N/A
Luminaire Lumens: 4291.0 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	13499	13499	13499
5°	13663	13183	13021
10°	13681	12982	12976
15°	13718	13165	13524
20°	13845	13557	12694
25°	14017	13029	9774
30°	14294	10912	6953
35°	14649	8264	4708
40°	15096	6008	3986
45°	15438	4358	6268
50°	15461	4826	5947
55°	14451	5554	5874
60°	12313	5082	6243
65°	9263	5125	5711
70°	6499	4666	5316
75°	4259	3910	4770
80°	2720	3349	3970
85°	1462	3184	3565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.9	3.7
10°-20°	479.9	11.2
20°-30°	697.2	16.2
30°-40°	666.1	15.5
40°-50°	609.3	14.2
50°-60°	562.6	13.1
60°-70°	446.9	10.4
70°-80°	275.8	6.4
80°-90°	150.2	3.5
90°-100°	75.9	1.8
100°-110°	47.7	1.1
110°-120°	40.4	0.9
120°-130°	33.0	0.8
130°-140°	23.7	0.6
140°-150°	14.6	0.3
150°-160°	6.9	0.2
160°-170°	1.8	0.0
170°-180°	0.0	0.0
0°-30°	1336.0	31.1
0°-40°	2002.2	46.7
0°-60°	3174.1	74.0
0°-90°	4047.0	94.3
90°-120°	164.0	3.8
90°-150°	235.3	5.5
90°-180°	244.0	5.7
0°-180°	4291.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1670	1670	1670	1670	1670	
5°	1689	1663	1666	1657	1658	161
15°	1653	1631	1695	1758	1779	468
25°	1595	1626	1657	1403	1288	737
35°	1517	1493	1006	693	603	951
45°	1393	972	491	626	754	1071
55°	1072	498	556	598	640	944
65°	517	323	433	526	539	523
75°	152	172	260	344	367	173
85°	21	73	147	200	203	27
90°	1	55	132	156	144	1
95°	0	51	91	81	76	0
105°	0	46	56	51	50	0
115°	0	38	54	48	46	0
125°	1	30	48	47	44	1
135°	1	21	38	42	41	1
145°	1	13	27	34	36	0
155°	2	8	16	21	26	1
165°	2	4	8	10	14	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-49SL-SLC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1670.4	1670.4	1670.4	1670.4	1670.4
2.5°	1691.2	1666.7	1669.7	1664.5	1655.7
5°	1688.9	1663.1	1666.0	1657.1	1657.9
7.5°	1683.0	1656.4	1660.1	1658.6	1662.3
10°	1676.4	1648.3	1662.3	1674.9	1686.0
12.5°	1664.5	1639.4	1673.4	1710.4	1733.3
15°	1653.4	1631.3	1694.8	1757.7	1779.1
17.5°	1642.3	1628.3	1721.5	1776.2	1773.2
20°	1628.3	1626.8	1741.4	1722.9	1677.8
22.5°	1612.8	1627.6	1725.9	1590.6	1501.8
25°	1595.0	1626.1	1657.1	1402.8	1288.1
27.5°	1577.3	1619.4	1532.2	1197.2	1084.1
30°	1559.5	1601.7	1363.6	1009.4	906.6
32.5°	1538.8	1563.2	1180.2	843.0	748.3
35°	1517.4	1493.0	1006.4	692.9	602.7
37.5°	1495.2	1391.7	850.4	561.3	503.6
40°	1468.6	1264.5	706.9	481.4	496.9
42.5°	1435.3	1121.0	580.5	505.1	613.0
45°	1393.1	971.7	491.0	626.3	754.3
47.5°	1339.9	828.2	468.8	717.3	757.2
50°	1275.6	696.6	515.4	687.7	684.7
52.5°	1178.0	587.1	562.7	627.1	650.7
55°	1071.5	498.4	556.1	598.2	640.4
57.5°	936.9	438.5	510.2	592.3	641.1
60°	803.1	398.6	471.0	591.6	637.4
62.5°	655.2	362.3	451.1	577.5	604.9
65°	516.9	323.1	433.3	526.5	539.1
67.5°	396.4	283.2	402.3	469.6	494.7
70°	298.7	244.0	353.5	425.9	457.0
72.5°	215.2	207.0	303.2	387.5	420.0
75°	152.3	172.3	259.6	343.8	366.8
77.5°	105.0	140.5	222.6	295.8	314.3
80°	68.8	112.4	189.3	254.4	266.9
82.5°	41.4	90.2	164.2	222.6	229.2
85°	21.4	73.2	147.2	200.4	203.4
87.5°	6.7	61.4	137.5	190.0	193.7
90°	0.7	54.7	131.6	156.0	144.2
92.5°	0.0	51.8	113.9	106.5	95.4
95°	0.0	51.0	91.0	80.6	76.2
97.5°	0.0	49.5	74.7	67.3	65.1
100°	0.0	48.1	64.3	59.2	58.4
102.5°	0.0	47.3	58.4	54.0	53.2
105°	0.0	45.8	56.2	51.0	50.3
107.5°	0.0	43.6	54.7	49.5	48.1
110°	0.0	41.4	54.7	48.8	46.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	39.2	54.7	48.1	45.8
115°	0.0	37.7	54.0	48.1	45.8
117.5°	0.7	36.2	53.2	48.1	45.8
120°	0.0	34.8	51.8	48.1	45.1
122.5°	0.7	32.5	50.3	47.3	45.1
125°	0.7	30.3	48.1	46.6	44.4
127.5°	0.7	28.1	45.8	45.1	42.9
130°	0.7	25.9	43.6	44.4	42.1
132.5°	0.7	23.7	40.7	42.9	41.4
135°	0.7	21.4	38.5	42.1	40.7
137.5°	0.7	19.2	35.5	39.9	39.9
140°	0.7	17.0	32.5	38.5	39.2
142.5°	0.7	15.5	29.6	37.0	37.7
145°	0.7	13.3	26.6	34.0	36.2
147.5°	0.7	11.8	23.7	31.1	34.0
150°	0.7	10.4	20.7	28.1	31.1
152.5°	0.7	8.9	18.5	24.4	28.8
155°	1.5	8.1	16.3	21.4	25.9
157.5°	1.5	6.7	13.3	18.5	22.2
160°	1.5	5.9	11.8	15.5	20.0
162.5°	1.5	5.2	9.6	13.3	17.0
165°	1.5	4.4	8.1	10.4	14.0
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)