

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

Summary

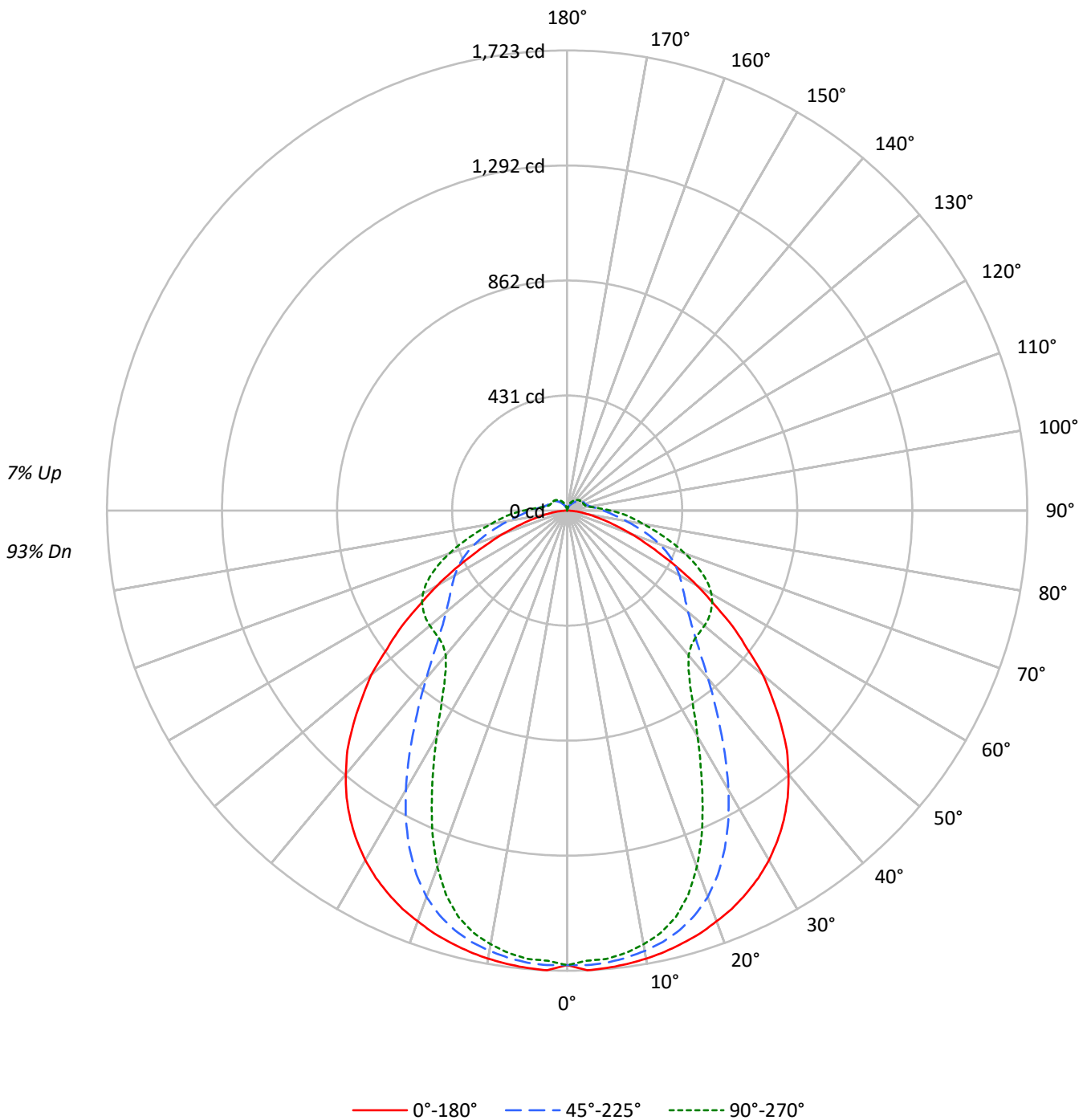
Lumens per Lamp: N/A
Luminaire Lumens: 4279.0 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	13750	13750	13750
5°	13908	13446	13235
10°	13903	13074	12691
15°	13908	12636	11967
20°	13914	11986	10747
25°	13920	10982	9101
30°	13854	9663	7486
35°	13656	8222	6274
40°	13256	6963	5671
45°	12555	6052	5628
50°	11598	5532	5826
55°	10212	5317	6030
60°	8617	5241	6113
65°	6930	5125	5922
70°	5568	4861	5462
75°	4197	4399	4847
80°	3099	3950	4312
85°	2070	3727	3966



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	3.8
10°-20°	455.0	10.6
20°-30°	636.0	14.9
30°-40°	659.7	15.4
40°-50°	609.5	14.2
50°-60°	544.2	12.7
60°-70°	441.0	10.3
70°-80°	293.3	6.9
80°-90°	168.0	3.9
90°-100°	92.9	2.2
100°-110°	62.9	1.5
110°-120°	52.4	1.2
120°-130°	42.6	1.0
130°-140°	30.7	0.7
140°-150°	18.5	0.4
150°-160°	8.9	0.2
160°-170°	2.3	0.1
170°-180°	0.0	0.0
0°-30°	1252.0	29.3
0°-40°	1911.7	44.7
0°-60°	3065.4	71.6
0°-90°	3967.7	92.7
90°-120°	208.3	4.9
90°-150°	300.1	7.0
90°-180°	311.0	7.3
0°-180°	4279.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1702	1702	1702	1702	1702	
5°	1719	1690	1699	1688	1685	164
15°	1676	1641	1627	1590	1574	474
25°	1584	1514	1397	1250	1199	730
35°	1415	1259	1001	841	803	883
45°	1133	898	682	657	677	871
55°	757	572	532	619	657	673
65°	387	346	433	531	559	391
75°	150	188	292	358	373	165
85°	30	87	172	220	226	35
90°	2	61	136	164	163	2
95°	2	52	108	115	112	1
105°	1	45	78	75	72	1
115°	1	41	69	68	66	1
125°	1	35	61	64	62	1
135°	2	26	48	56	56	1
145°	2	16	33	44	47	1
155°	2	10	21	27	33	1
165°	2	6	10	13	18	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°	1701.5	1701.5	1701.5	1701.5	1701.5
2.5°	1722.9	1694.8	1703.7	1696.3	1686.7
5°	1719.2	1690.4	1699.3	1687.5	1685.2
7.5°	1712.6	1683.8	1688.9	1674.9	1671.2
10°	1703.7	1673.4	1674.1	1654.2	1649.0
12.5°	1691.9	1658.6	1654.2	1626.8	1619.4
15°	1676.4	1640.9	1626.8	1589.8	1574.3
17.5°	1659.4	1617.9	1589.1	1532.2	1507.8
20°	1636.4	1589.8	1539.6	1453.0	1420.5
22.5°	1613.5	1555.8	1475.2	1359.9	1316.2
25°	1583.9	1513.7	1396.8	1250.4	1199.4
27.5°	1550.7	1464.1	1306.6	1138.0	1083.3
30°	1511.5	1404.2	1207.5	1027.9	976.1
32.5°	1465.6	1336.9	1103.3	928.8	880.7
35°	1414.6	1259.3	1001.2	840.8	803.1
37.5°	1356.2	1174.3	906.6	769.8	745.4
40°	1289.6	1081.8	819.3	715.1	706.9
42.5°	1217.9	991.6	744.6	679.6	687.0
45°	1132.9	897.7	681.8	657.4	677.3
47.5°	1043.4	806.0	630.8	644.8	673.6
50°	956.9	721.0	590.8	636.7	670.7
52.5°	849.6	644.8	559.0	629.3	666.3
55°	757.2	572.3	532.4	618.9	657.4
57.5°	650.7	507.3	508.7	605.6	644.1
60°	562.0	448.1	485.8	587.1	624.1
62.5°	471.8	394.9	460.7	562.7	596.0
65°	386.7	346.1	433.3	530.9	559.0
67.5°	315.8	301.7	402.3	492.5	516.1
70°	255.9	261.0	368.3	449.6	469.6
72.5°	196.7	223.3	331.3	403.7	420.8
75°	150.1	187.8	292.1	357.9	372.7
77.5°	110.9	156.8	256.6	316.5	329.1
80°	78.4	129.4	223.3	280.3	289.9
82.5°	52.5	106.5	196.0	247.7	256.6
85°	30.3	87.3	172.3	220.4	226.3
87.5°	12.6	72.5	153.1	192.3	195.2
90°	1.5	61.4	136.1	164.2	162.7
92.5°	1.5	55.5	121.3	137.5	133.8
95°	1.5	51.8	108.0	115.4	111.7
97.5°	1.5	49.5	96.1	99.1	95.4
100°	0.7	48.1	88.0	88.0	84.3
102.5°	0.7	46.6	82.1	79.9	76.9
105°	0.7	45.1	77.6	75.4	71.7
107.5°	0.7	44.4	74.7	72.5	68.8
110°	0.7	42.9	72.5	70.2	67.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	42.1	71.0	69.5	65.8
115°	0.7	40.7	68.8	68.0	65.8
117.5°	0.7	39.2	67.3	67.3	65.1
120°	0.7	37.7	65.1	66.6	64.3
122.5°	0.7	36.2	62.9	65.1	62.9
125°	0.7	34.8	60.6	63.6	62.1
127.5°	1.5	32.5	57.7	62.1	60.6
130°	0.7	30.3	54.7	60.6	59.9
132.5°	1.5	28.1	51.8	58.4	58.4
135°	1.5	25.9	48.1	56.2	56.2
137.5°	1.5	22.9	44.4	53.2	54.0
140°	1.5	20.7	40.7	50.3	51.8
142.5°	1.5	18.5	37.0	47.3	49.5
145°	1.5	16.3	33.3	43.6	46.6
147.5°	1.5	14.8	29.6	39.2	43.6
150°	1.5	12.6	26.6	35.5	39.9
152.5°	1.5	11.1	23.7	31.8	37.0
155°	1.5	10.4	20.7	27.4	33.3
157.5°	1.5	8.9	17.7	23.7	29.6
160°	1.5	7.4	14.8	20.7	25.1
162.5°	1.5	6.7	12.6	17.0	22.2
165°	1.5	5.9	10.4	13.3	17.7
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)