

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: P290370

Luminaire Tested: **4SSRK-SLN-40-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-15)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-SLN-40-L840-CD1-U
Description: 4000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 80 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4275.7 lumens
Efficiency: N/A
Efficacy: 154.4 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

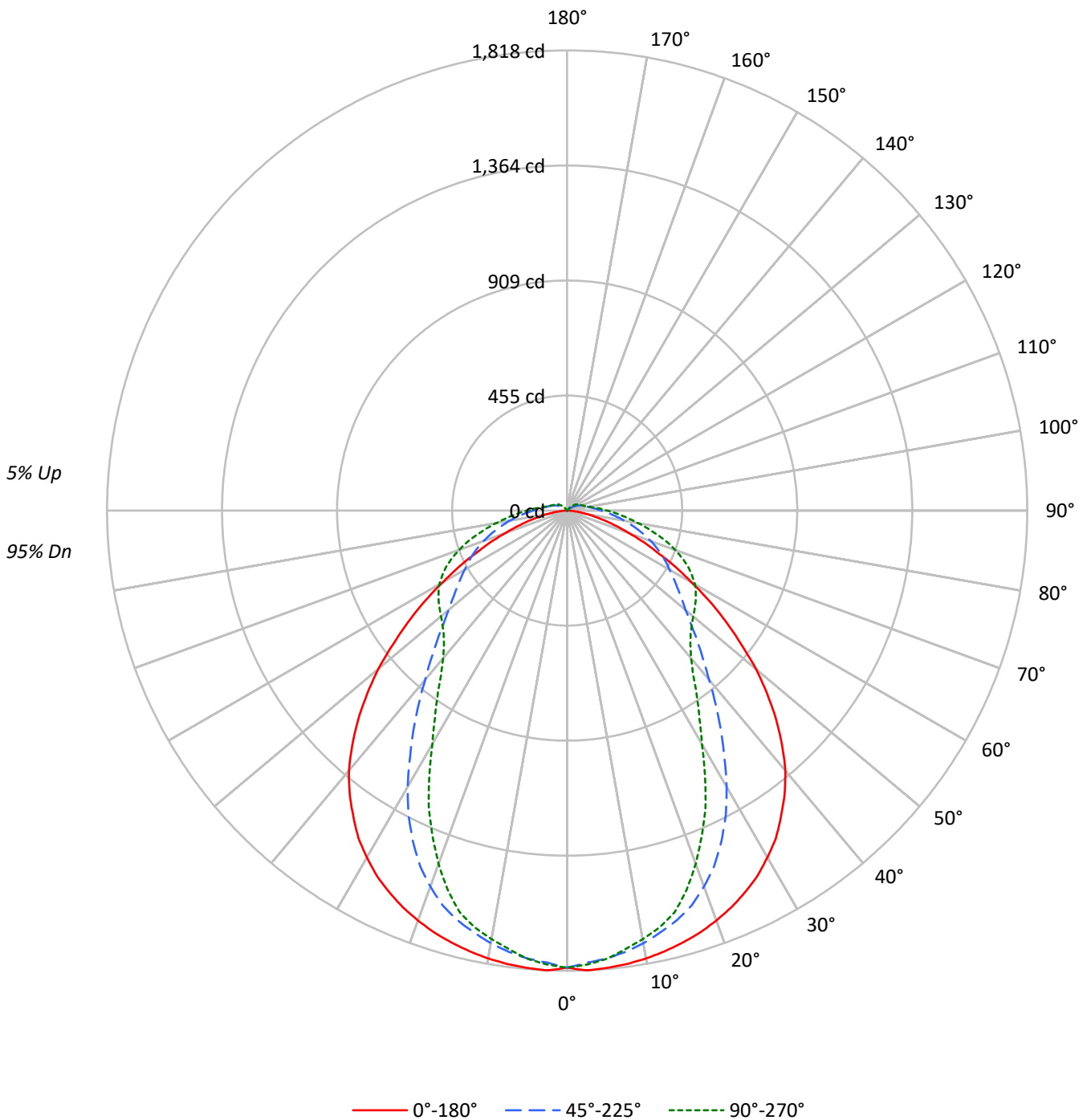
Input Watts (W): 27.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	115	115	115	108	108	108	103	103	103	98	98	98	95
1	107	102	98	94	104	100	96	92	94	91	88	90	87	85	85	83	81	79
2	98	90	83	77	95	87	81	76	83	78	73	79	75	71	75	72	69	66
3	90	79	71	65	87	77	70	64	74	67	62	70	65	60	67	63	59	56
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	49
5	76	64	55	48	74	62	54	48	60	52	47	57	51	46	55	49	45	43
6	71	58	49	43	68	56	48	42	54	47	42	52	46	41	50	45	40	38
7	66	53	44	38	64	52	44	38	50	42	37	48	41	37	46	40	36	34
8	61	48	40	34	60	47	40	34	46	39	34	44	38	33	43	37	33	31
9	57	44	37	31	56	44	36	31	42	35	31	41	35	30	40	34	30	28
10	54	41	34	28	53	41	33	28	39	33	28	38	32	28	37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	116630	116630	116630
5°	117167	92149	85400
10°	116960	75691	66125
15°	116800	63443	53004
20°	116683	53249	41569
25°	116295	44033	32175
30°	115219	35475	24010
35°	112879	27823	18515
40°	109245	21632	14731
45°	102429	17178	12606
50°	93241	13922	11335
55°	81416	11777	10407
60°	68440	10144	9505
65°	55776	8810	8426
70°	44188	7502	7150
75°	33386	6192	5773
80°	23344	4965	4460
85°	13653	3880	3393



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.6	4.0
10°-20°	475.4	11.1
20°-30°	668.5	15.6
30°-40°	700.0	16.4
40°-50°	633.8	14.8
50°-60°	539.4	12.6
60°-70°	426.5	10.0
70°-80°	290.4	6.8
80°-90°	165.7	3.9
90°-100°	91.9	2.1
100°-110°	56.1	1.3
110°-120°	34.1	0.8
120°-130°	18.5	0.4
130°-140°	5.6	0.1
140°-150°	0.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1313.4	30.7
0°-40°	2013.4	47.1
0°-60°	3186.6	74.5
0°-90°	4069.2	95.2
90°-120°	182.2	4.3
90°-150°	206.4	4.8
90°-180°	206.0	4.8
0°-180°	4275.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1806	1806	1806	1806	1806	
5°	1814	1802	1777	1785	1778	173
15°	1766	1733	1676	1658	1642	499
25°	1664	1581	1441	1330	1294	767
35°	1474	1308	1059	927	893	921
45°	1168	928	726	688	690	897
55°	766	585	532	593	620	685
65°	398	345	411	502	528	400
75°	155	188	290	356	368	169
85°	27	89	176	211	214	33
90°	0	62	135	157	157	2
95°	1	48	106	118	117	1
105°	1	29	71	74	71	1
115°	1	4	48	56	54	1
125°	0	1	22	38	41	0
135°	1	1	1	16	21	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	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°	1805.9	1805.9	1805.9	1805.9	1805.9
2.5°	1818.3	1808.4	1787.7	1801.0	1795.1
5°	1813.9	1802.5	1776.8	1784.7	1778.3
7.5°	1806.9	1791.6	1758.5	1761.0	1748.6
10°	1796.6	1776.8	1735.8	1731.4	1719.5
12.5°	1783.2	1756.1	1706.7	1700.7	1686.9
15°	1766.4	1732.8	1675.5	1658.3	1642.4
17.5°	1747.7	1705.2	1635.5	1597.0	1569.8
20°	1723.5	1669.6	1580.7	1524.9	1485.4
22.5°	1696.3	1631.1	1519.0	1435.0	1390.0
25°	1663.7	1581.2	1441.4	1329.8	1293.7
27.5°	1627.6	1529.3	1356.9	1226.5	1178.6
30°	1582.2	1463.6	1260.6	1120.8	1065.5
32.5°	1534.8	1393.0	1155.9	1015.1	972.1
35°	1473.5	1307.5	1059.1	926.7	892.6
37.5°	1411.8	1216.2	962.7	847.7	817.5
40°	1341.1	1123.8	871.9	782.4	761.2
42.5°	1257.2	1029.9	794.8	727.6	720.2
45°	1168.2	927.7	725.6	687.6	690.1
47.5°	1071.4	834.8	662.9	655.5	667.8
50°	974.1	748.4	610.5	631.3	650.6
52.5°	865.9	664.9	569.1	611.5	634.7
55°	766.1	584.9	531.5	592.8	620.4
57.5°	666.9	516.7	498.9	573.5	602.6
60°	568.1	454.5	467.3	552.8	583.4
62.5°	482.1	395.2	439.6	529.5	556.2
65°	397.6	345.3	411.0	501.9	528.1
67.5°	327.5	300.8	382.3	468.8	492.5
70°	260.8	258.8	351.7	432.2	454.0
72.5°	203.5	220.8	319.6	394.2	414.9
75°	154.6	188.2	289.5	355.7	368.5
77.5°	113.1	157.6	258.8	316.6	325.5
80°	77.6	130.9	229.7	277.6	284.0
82.5°	48.9	108.2	201.5	242.5	247.0
85°	27.2	89.4	176.3	210.9	213.9
87.5°	10.4	73.6	153.6	183.3	185.7
90°	0.5	62.2	134.9	157.1	157.1
92.5°	0.5	54.3	119.5	136.3	137.3
95°	1.0	47.9	106.2	117.6	116.6
97.5°	1.0	43.5	93.9	103.2	100.3
100°	1.0	39.5	84.5	90.9	87.9
102.5°	1.0	35.1	77.1	81.0	77.6
105°	1.0	29.1	71.1	74.1	71.1
107.5°	1.0	23.2	64.7	68.7	65.7
110°	1.0	17.3	58.8	63.7	61.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	10.9	53.3	59.3	57.8
115°	1.0	4.0	47.9	55.8	54.3
117.5°	0.5	2.0	41.0	51.9	51.4
120°	0.5	1.5	34.6	48.4	48.4
122.5°	0.5	1.5	28.7	43.5	45.4
125°	0.5	1.0	21.7	38.5	41.0
127.5°	0.5	1.0	15.3	33.6	36.6
130°	0.5	1.0	7.9	27.7	31.6
132.5°	0.5	1.0	1.0	21.7	26.2
135°	1.0	1.0	1.0	15.8	20.7
137.5°	1.0	1.0	1.0	8.4	14.8
140°	1.0	1.0	0.5	0.5	6.9
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
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)