

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: P290366

Luminaire Tested: **4SSRK-SLN-40-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290366
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-L940-CD1-U
Description: 4000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3617.2 lumens
Efficiency: N/A
Efficacy: 130.6 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

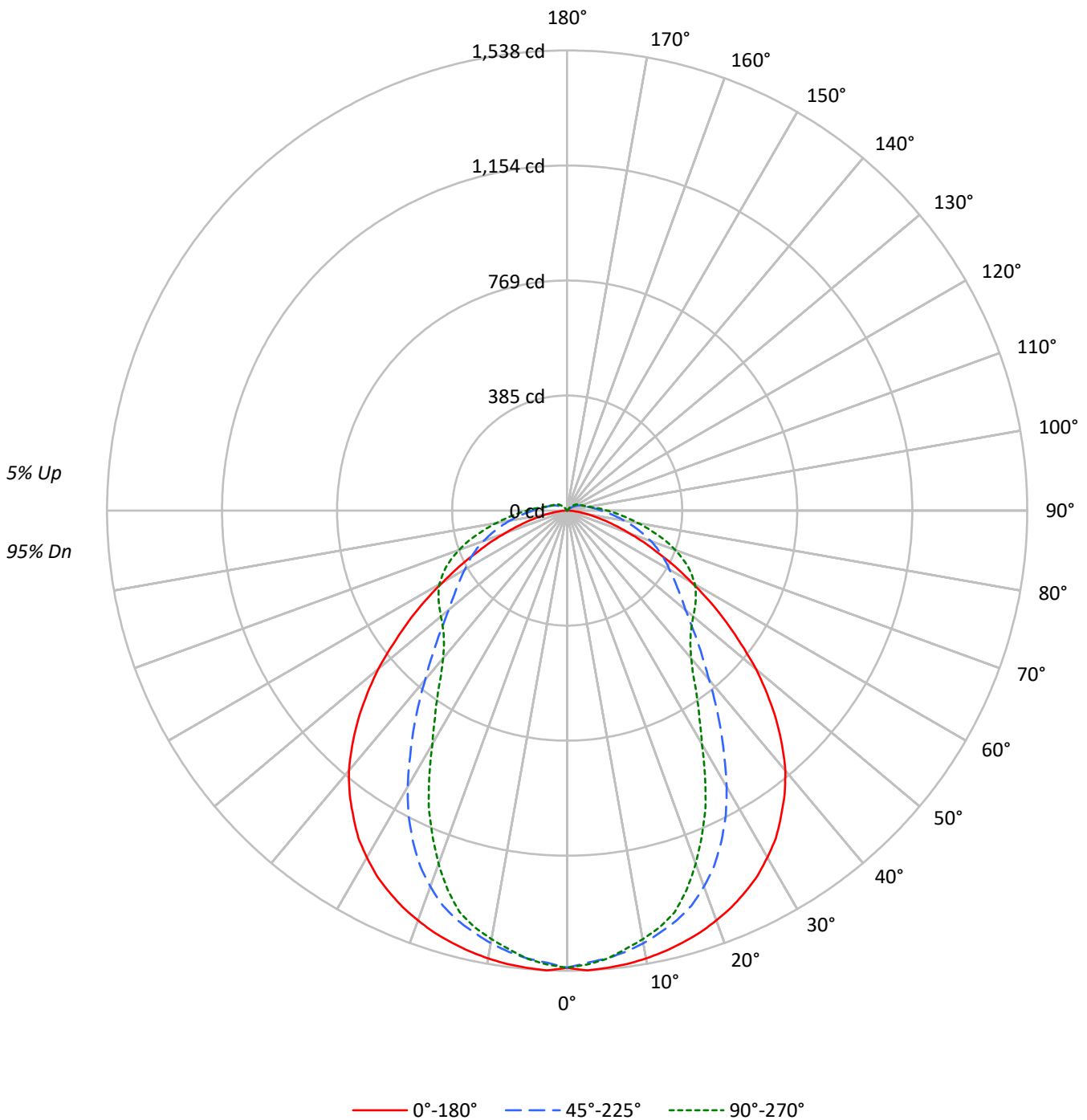
Input Watts (W): 27.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	98670	98670	98670
5°	99120	77960	72247
10°	98947	64035	55942
15°	98814	53674	44842
20°	98708	45050	35166
25°	98386	37251	27221
30°	97472	30013	20312
35°	95497	23539	15663
40°	92423	18300	12463
45°	86655	14534	10664
50°	78883	11778	9589
55°	68886	9965	8805
60°	57899	8581	8040
65°	47191	7454	7127
70°	37377	6346	6048
75°	28246	5238	4885
80°	19735	4199	3773
85°	11545	3284	2869



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.5	4.0
10°-20°	402.2	11.1
20°-30°	565.5	15.6
30°-40°	592.2	16.4
40°-50°	536.2	14.8
50°-60°	456.3	12.6
60°-70°	360.8	10.0
70°-80°	245.7	6.8
80°-90°	140.2	3.9
90°-100°	77.7	2.1
100°-110°	47.5	1.3
110°-120°	28.9	0.8
120°-130°	15.6	0.4
130°-140°	4.7	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°	1111.2	30.7
0°-40°	1703.4	47.1
0°-60°	2695.9	74.5
0°-90°	3442.6	95.2
90°-120°	154.1	4.3
90°-150°	174.6	4.8
90°-180°	175.0	4.8
0°-180°	3617.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1528	1528	1528	1528	1528	
5°	1534	1525	1503	1510	1504	146
15°	1494	1466	1418	1403	1390	422
25°	1408	1338	1219	1125	1094	648
35°	1247	1106	896	784	755	779
45°	988	785	614	582	584	759
55°	648	495	450	502	525	580
65°	336	292	348	425	447	339
75°	131	159	245	301	312	143
85°	23	76	149	178	181	28
90°	0	53	114	133	133	1
95°	1	40	90	100	99	1
105°	1	25	60	63	60	1
115°	1	3	40	47	46	1
125°	0	1	18	33	35	0
135°	1	1	1	13	18	0
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°	1527.8	1527.8	1527.8	1527.8	1527.8
2.5°	1538.3	1529.9	1512.4	1523.7	1518.6
5°	1534.5	1524.9	1503.2	1509.9	1504.4
7.5°	1528.7	1515.7	1487.7	1489.8	1479.4
10°	1519.9	1503.2	1468.5	1464.7	1454.7
12.5°	1508.6	1485.6	1443.8	1438.8	1427.1
15°	1494.4	1466.0	1417.5	1402.9	1389.5
17.5°	1478.5	1442.6	1383.7	1351.1	1328.1
20°	1458.0	1412.5	1337.3	1290.0	1256.6
22.5°	1435.1	1379.9	1285.0	1214.0	1176.0
25°	1407.5	1337.7	1219.4	1125.0	1094.5
27.5°	1377.0	1293.8	1148.0	1037.6	997.1
30°	1338.5	1238.2	1066.5	948.2	901.4
32.5°	1298.4	1178.5	977.9	858.8	822.4
35°	1246.6	1106.2	896.0	784.0	755.1
37.5°	1194.4	1028.9	814.5	717.1	691.6
40°	1134.6	950.7	737.6	661.9	644.0
42.5°	1063.5	871.3	672.4	615.6	609.3
45°	988.3	784.8	613.9	581.7	583.8
47.5°	906.4	706.2	560.8	554.5	565.0
50°	824.1	633.1	516.5	534.1	550.4
52.5°	732.6	562.5	481.4	517.4	537.0
55°	648.2	494.8	449.7	501.5	524.9
57.5°	564.2	437.1	422.1	485.2	509.8
60°	480.6	384.5	395.3	467.6	493.5
62.5°	407.9	334.3	371.9	448.0	470.6
65°	336.4	292.1	347.7	424.6	446.7
67.5°	277.1	254.5	323.5	396.6	416.6
70°	220.6	219.0	297.5	365.7	384.0
72.5°	172.2	186.8	270.4	333.5	351.0
75°	130.8	159.2	244.9	300.9	311.8
77.5°	95.7	133.3	219.0	267.9	275.4
80°	65.6	110.7	194.3	234.9	240.3
82.5°	41.4	91.5	170.5	205.2	208.9
85°	23.0	75.6	149.2	178.4	180.9
87.5°	8.8	62.3	130.0	155.0	157.1
90°	0.4	52.7	114.1	132.9	132.9
92.5°	0.4	46.0	101.1	115.3	116.2
95°	0.8	40.5	89.8	99.5	98.6
97.5°	0.8	36.8	79.4	87.3	84.8
100°	0.8	33.4	71.5	76.9	74.4
102.5°	0.8	29.7	65.2	68.5	65.6
105°	0.8	24.7	60.2	62.7	60.2
107.5°	0.8	19.6	54.7	58.1	55.6
110°	0.8	14.6	49.7	53.9	51.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	9.2	45.1	50.1	48.9
115°	0.8	3.3	40.5	47.2	46.0
117.5°	0.4	1.7	34.7	43.9	43.5
120°	0.4	1.3	29.3	41.0	41.0
122.5°	0.4	1.3	24.2	36.8	38.4
125°	0.4	0.8	18.4	32.6	34.7
127.5°	0.4	0.8	13.0	28.4	30.9
130°	0.4	0.8	6.7	23.4	26.7
132.5°	0.4	0.8	0.8	18.4	22.1
135°	0.8	0.8	0.8	13.4	17.6
137.5°	0.8	0.8	0.8	7.1	12.5
140°	0.8	0.8	0.4	0.4	5.9
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)