

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: P290390

Luminaire Tested: **8SSRK-SLN-40-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290390
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: 8SSRK-SLN-40-L940-CD1-U
Description: 4000 LUMEN, 8 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: 3593.5 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

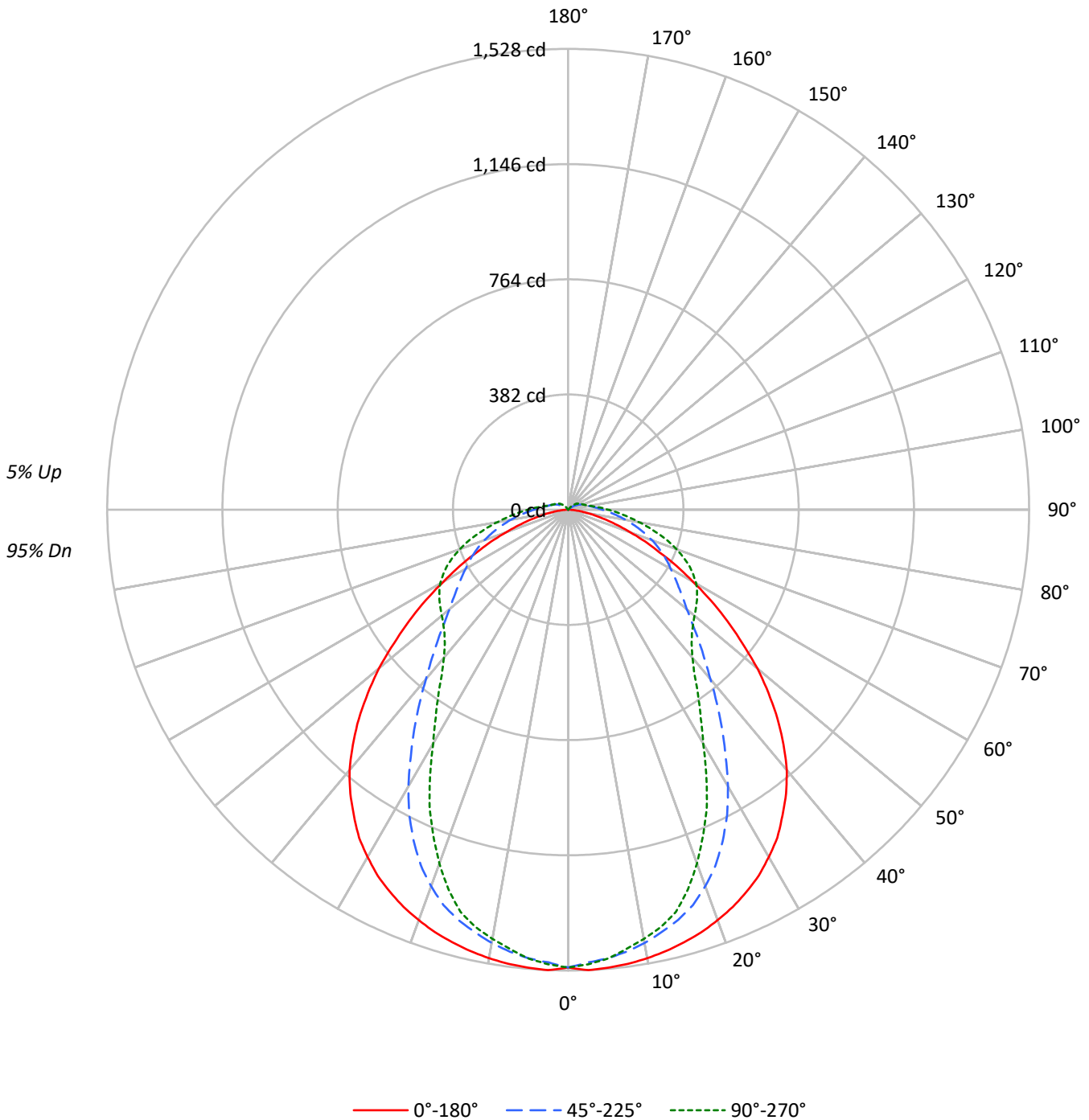
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	49015	49015	49015
5°	49327	38766	35888
10°	49331	31863	27788
15°	49356	26721	22274
20°	49401	22436	17468
25°	49342	18560	13521
30°	48995	14956	10090
35°	48117	11732	7781
40°	46699	9124	6191
45°	43925	7247	5297
50°	40132	5874	4763
55°	35203	4970	4373
60°	29758	4281	3994
65°	24444	3719	3540
70°	19575	3167	3004
75°	15038	2614	2426
80°	10843	2097	1874
85°	6823	1639	1426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	4.0
10°-20°	399.5	11.1
20°-30°	561.8	15.6
30°-40°	588.3	16.4
40°-50°	532.7	14.8
50°-60°	453.4	12.6
60°-70°	358.5	10.0
70°-80°	244.1	6.8
80°-90°	139.3	3.9
90°-100°	77.2	2.1
100°-110°	47.2	1.3
110°-120°	28.7	0.8
120°-130°	15.5	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°	1103.9	30.7
0°-40°	1692.2	47.1
0°-60°	2678.3	74.5
0°-90°	3420.1	95.2
90°-120°	153.1	4.3
90°-150°	173.5	4.8
90°-180°	173.0	4.8
0°-180°	3593.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1518	1518	1518	1518	1518	
5°	1524	1515	1493	1500	1495	145
15°	1485	1456	1408	1394	1380	419
25°	1398	1329	1212	1118	1087	644
35°	1238	1099	890	779	750	774
45°	982	780	610	578	580	754
55°	644	492	447	498	521	576
65°	334	290	345	422	444	337
75°	130	158	243	299	310	142
85°	23	75	148	177	180	27
90°	0	52	113	132	132	1
95°	1	40	89	99	98	1
105°	1	24	60	62	60	1
115°	1	3	40	47	46	1
125°	0	1	18	32	34	0
135°	1	1	1	13	17	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°	1517.9	1517.9	1517.9	1517.9	1517.9
2.5°	1528.2	1519.9	1502.5	1513.7	1508.7
5°	1524.5	1514.9	1493.4	1500.0	1494.6
7.5°	1518.7	1505.8	1478.0	1480.1	1469.7
10°	1510.0	1493.4	1458.9	1455.2	1445.2
12.5°	1498.8	1475.9	1434.4	1429.4	1417.8
15°	1484.6	1456.4	1408.2	1393.7	1380.4
17.5°	1468.9	1433.2	1374.6	1342.2	1319.4
20°	1448.5	1403.3	1328.5	1281.6	1248.4
22.5°	1425.7	1370.9	1276.6	1206.1	1168.3
25°	1398.3	1328.9	1211.5	1117.6	1087.3
27.5°	1368.0	1285.4	1140.5	1030.9	990.6
30°	1329.8	1230.1	1059.5	942.0	895.5
32.5°	1289.9	1170.8	971.5	853.2	817.0
35°	1238.4	1098.9	890.1	778.9	750.2
37.5°	1186.5	1022.1	809.2	712.4	687.1
40°	1127.2	944.5	732.8	657.6	639.8
42.5°	1056.6	865.6	668.0	611.5	605.3
45°	981.9	779.7	609.9	577.9	580.0
47.5°	900.5	701.6	557.2	550.9	561.3
50°	818.7	629.0	513.1	530.6	546.8
52.5°	727.8	558.8	478.3	514.0	533.5
55°	643.9	491.6	446.7	498.2	521.4
57.5°	560.5	434.3	419.3	482.0	506.5
60°	477.4	382.0	392.7	464.6	490.3
62.5°	405.2	332.1	369.5	445.1	467.5
65°	334.2	290.2	345.4	421.8	443.8
67.5°	275.3	252.8	321.3	394.0	413.9
70°	219.2	217.5	295.6	363.3	381.5
72.5°	171.0	185.6	268.6	331.3	348.7
75°	129.9	158.2	243.3	298.9	309.7
77.5°	95.1	132.4	217.5	266.1	273.6
80°	65.2	110.0	193.1	233.3	238.7
82.5°	41.1	90.9	169.4	203.8	207.6
85°	22.8	75.1	148.2	177.3	179.8
87.5°	8.7	61.9	129.1	154.0	156.1
90°	0.4	52.3	113.3	132.0	132.0
92.5°	0.4	45.7	100.5	114.6	115.4
95°	0.8	40.3	89.3	98.8	98.0
97.5°	0.8	36.5	78.9	86.8	84.3
100°	0.8	33.2	71.0	76.4	73.9
102.5°	0.8	29.5	64.8	68.1	65.2
105°	0.8	24.5	59.8	62.3	59.8
107.5°	0.8	19.5	54.4	57.7	55.2
110°	0.8	14.5	49.4	53.6	51.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	9.1	44.8	49.8	48.6
115°	0.8	3.3	40.3	46.9	45.7
117.5°	0.4	1.7	34.5	43.6	43.2
120°	0.4	1.2	29.1	40.7	40.7
122.5°	0.4	1.2	24.1	36.5	38.2
125°	0.4	0.8	18.3	32.4	34.5
127.5°	0.4	0.8	12.9	28.2	30.7
130°	0.4	0.8	6.6	23.2	26.6
132.5°	0.4	0.8	0.8	18.3	22.0
135°	0.8	0.8	0.8	13.3	17.4
137.5°	0.8	0.8	0.8	7.1	12.5
140°	0.8	0.8	0.4	0.4	5.8
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)