

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: P289691

Luminaire Tested: **8SSRK-40-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-40-L850-CD1-U
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH NO LENS AND 80 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4465.3 lumens
Efficiency: N/A
Efficacy: 165.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

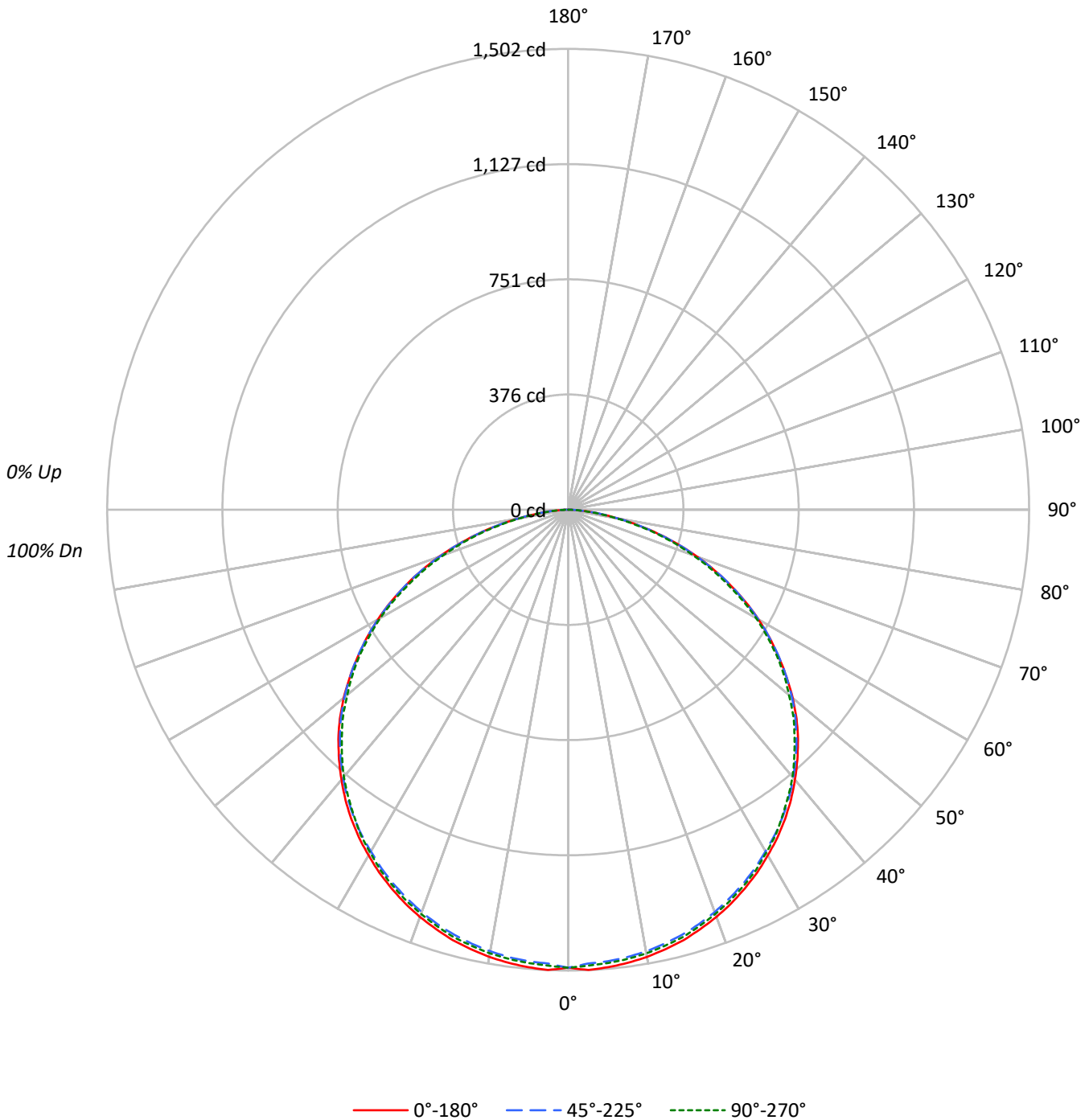
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	37	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	48205	48205	48205
5°	48430	38343	35622
10°	48354	31918	28233
15°	48292	27218	23273
20°	48170	23570	19618
25°	48054	20622	16819
30°	47934	18149	14541
35°	47841	16074	12622
40°	47615	14206	11007
45°	47374	12497	9524
50°	46814	10893	8182
55°	45799	9331	6956
60°	44662	7811	5761
65°	42751	6298	4549
70°	40007	4758	3397
75°	35169	3254	2299
80°	27824	1817	1241
85°	17925	657	408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	3.2
10°-20°	407.6	9.1
20°-30°	624.7	14.0
30°-40°	765.7	17.1
40°-50°	811.2	18.2
50°-60°	748.0	16.8
60°-70°	574.8	12.9
70°-80°	318.6	7.1
80°-90°	73.3	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1173.8	26.3
0°-40°	1939.5	43.4
0°-60°	3498.7	78.4
0°-90°	4465.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4465.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1493	1493	1493	1493	1493	
5°	1497	1490	1477	1491	1484	142
15°	1453	1446	1434	1447	1442	410
25°	1362	1357	1346	1360	1352	628
35°	1231	1225	1220	1224	1217	770
45°	1059	1056	1052	1050	1043	816
55°	838	844	839	835	829	749
65°	584	586	585	577	570	578
75°	304	304	303	298	294	321
85°	60	61	59	56	52	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1492.8	1492.8	1492.8	1492.8	1492.8
2.5°	1501.7	1494.3	1480.6	1494.3	1487.4
5°	1496.8	1490.4	1477.1	1491.4	1483.5
7.5°	1489.9	1484.5	1471.2	1485.0	1477.1
10°	1480.1	1474.2	1461.4	1476.1	1468.3
12.5°	1466.8	1461.4	1449.2	1462.9	1456.0
15°	1452.6	1445.7	1434.4	1447.2	1442.3
17.5°	1433.0	1427.6	1416.3	1428.5	1423.1
20°	1412.4	1407.0	1395.7	1407.9	1402.0
22.5°	1388.8	1383.4	1371.6	1384.9	1379.0
25°	1361.8	1356.9	1346.1	1359.8	1352.5
27.5°	1333.3	1329.4	1317.6	1328.9	1324.5
30°	1301.0	1298.5	1285.7	1294.6	1290.6
32.5°	1268.1	1263.7	1254.8	1261.7	1257.8
35°	1231.3	1225.4	1219.5	1223.9	1217.0
37.5°	1192.0	1188.1	1181.7	1185.6	1177.8
40°	1149.3	1145.9	1141.0	1142.0	1137.5
42.5°	1105.1	1101.2	1097.3	1095.3	1090.4
45°	1059.0	1055.6	1051.7	1050.2	1042.8
47.5°	1009.0	1006.5	1004.1	1000.6	995.2
50°	955.0	956.0	951.5	948.6	939.3
52.5°	897.1	903.0	896.6	892.2	886.8
55°	837.7	844.1	838.7	835.2	829.4
57.5°	778.8	781.7	778.3	775.9	768.0
60°	716.5	718.9	716.5	711.1	707.2
62.5°	652.2	655.1	650.2	646.3	640.9
65°	584.5	585.9	585.0	577.1	570.2
67.5°	516.3	518.7	515.8	510.4	503.5
70°	448.0	446.6	444.1	440.2	431.4
72.5°	375.9	375.9	375.4	368.1	363.6
75°	303.8	304.3	302.8	297.9	293.5
77.5°	231.6	237.0	233.1	228.2	223.3
80°	167.3	170.8	167.3	161.0	158.0
82.5°	107.0	111.9	108.9	102.6	101.6
85°	59.9	60.9	59.4	56.4	51.5
87.5°	22.6	23.6	24.0	19.6	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)