

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: P290489

Luminaire Tested: **8SSRK-SLW-50-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-17)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-SLW-50-L835-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4877.8 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

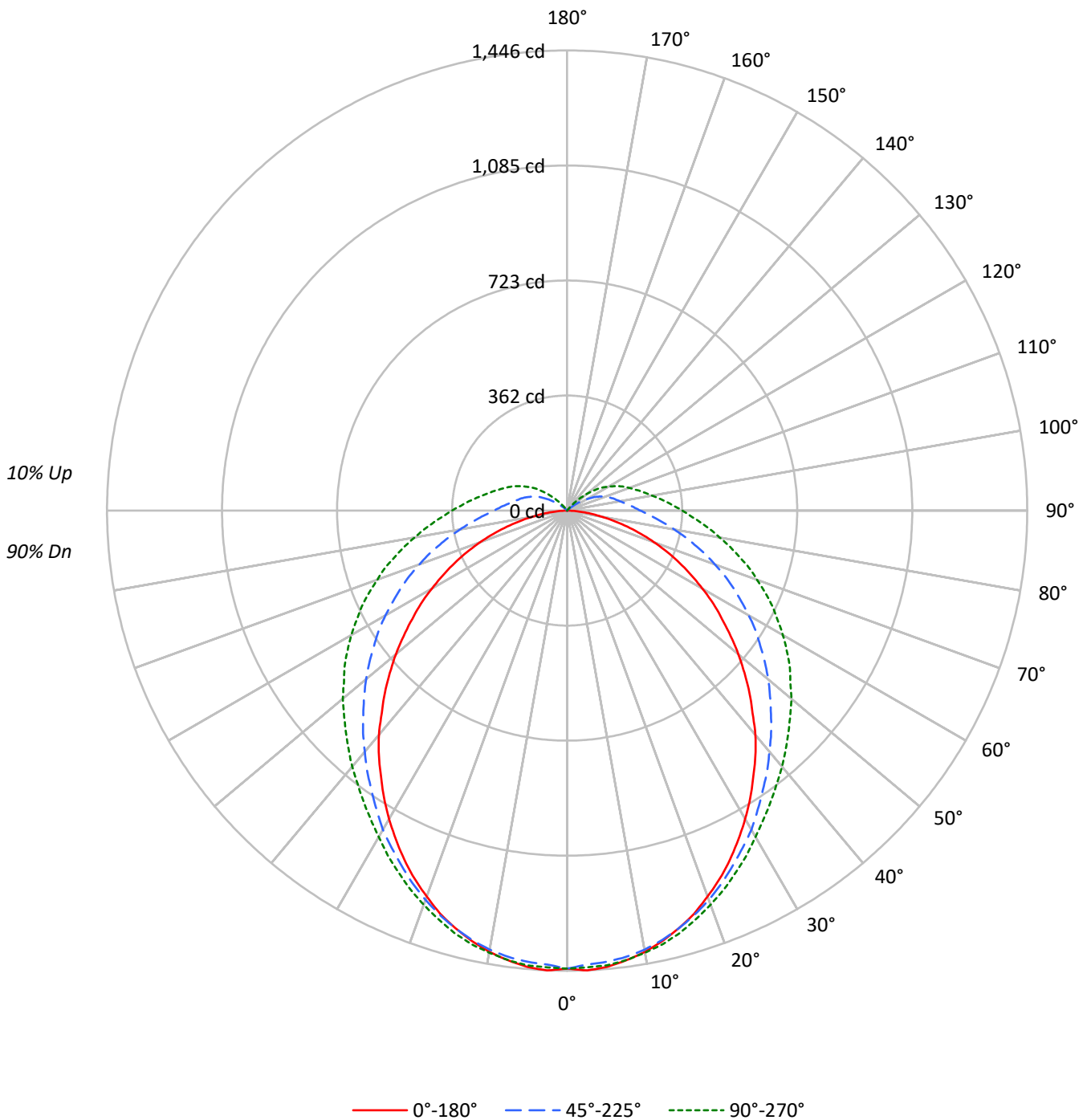
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	104	99	94	89	101	96	91	87	89	86	82	84	81	78	79	76	74	71
2	94	85	78	71	91	82	76	70	77	72	67	72	68	64	68	64	61	58
3	86	74	66	59	82	72	64	58	68	61	55	63	58	53	60	55	51	48
4	78	66	56	49	75	64	55	49	60	53	47	56	50	45	53	48	43	41
5	72	59	49	42	69	57	48	42	54	46	40	50	44	39	48	42	38	35
6	66	53	43	37	64	51	43	36	48	41	35	46	39	34	43	37	33	31
7	61	48	39	32	59	46	38	32	44	36	31	42	35	30	39	34	29	27
8	57	43	35	29	55	42	34	28	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	23	48	36	28	23	34	27	23	33	26	22	31	26	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	46474	46474	46474
5°	46567	36949	34440
10°	46005	30596	27123
15°	45160	25776	22153
20°	44006	21986	18438
25°	42722	18855	15600
30°	41228	16345	13340
35°	39631	14132	11575
40°	38132	12314	10170
45°	36253	10763	8983
50°	34456	9444	8018
55°	32481	8238	7163
60°	30600	7185	6379
65°	28481	6207	5680
70°	25933	5292	4999
75°	22574	4452	4383
80°	18294	3707	3820
85°	12897	3090	3329



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	2.8
10°-20°	384.6	7.9
20°-30°	569.0	11.7
30°-40°	672.0	13.8
40°-50°	698.6	14.3
50°-60°	658.7	13.5
60°-70°	561.4	11.5
70°-80°	424.6	8.7
80°-90°	286.5	5.9
90°-100°	196.7	4.0
100°-110°	141.1	2.9
110°-120°	90.5	1.9
120°-130°	46.2	0.9
130°-140°	11.7	0.2
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1089.7	22.3
0°-40°	1761.7	36.1
0°-60°	3119.0	63.9
0°-90°	4391.5	90.0
90°-120°	428.3	8.8
90°-150°	486.3	10.0
90°-180°	486.0	10.0
0°-180°	4877.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1439	1439	1439	1439	1439	
5°	1439	1436	1423	1437	1434	136
15°	1358	1363	1358	1372	1373	382
25°	1211	1225	1231	1252	1254	557
35°	1020	1044	1072	1104	1116	639
45°	810	850	906	962	984	625
55°	594	656	740	820	854	533
65°	389	468	576	672	712	386
75°	195	290	414	520	560	208
85°	43	145	279	383	420	49
90°	1	103	230	327	362	2
95°	1	81	196	282	314	1
105°	1	52	148	213	238	1
115°	1	7	103	161	181	1
125°	1	2	43	100	120	1
135°	1	1	1	32	47	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°	1439.2	1439.2	1439.2	1439.2	1439.2
2.5°	1446.4	1441.6	1427.6	1439.8	1436.7
5°	1439.2	1435.5	1423.4	1436.7	1434.3
7.5°	1425.2	1424.6	1414.9	1428.8	1424.6
10°	1408.2	1408.8	1400.9	1414.9	1410.6
12.5°	1385.1	1387.5	1382.0	1395.4	1394.8
15°	1358.4	1362.6	1358.4	1371.7	1372.9
17.5°	1328.0	1334.7	1331.6	1348.0	1346.2
20°	1290.3	1299.4	1301.9	1318.3	1317.7
22.5°	1252.7	1264.2	1268.4	1285.5	1287.9
25°	1210.7	1224.7	1230.8	1252.0	1254.5
27.5°	1165.2	1183.4	1194.3	1215.6	1221.1
30°	1119.0	1138.4	1157.9	1179.1	1184.0
32.5°	1071.0	1092.3	1114.7	1143.9	1149.4
35°	1020.0	1044.3	1072.2	1104.4	1116.0
37.5°	972.0	999.3	1032.1	1069.8	1081.9
40°	920.4	948.3	989.0	1031.5	1051.0
42.5°	862.6	900.3	948.9	999.9	1016.9
45°	810.4	850.5	905.8	961.7	983.5
47.5°	755.7	802.5	865.1	927.0	950.7
50°	702.9	753.9	825.0	891.8	920.4
52.5°	648.2	705.9	783.1	857.2	883.9
55°	594.1	655.5	740.5	820.1	854.1
57.5°	545.5	608.1	702.3	783.7	818.3
60°	490.9	563.1	659.1	746.6	783.1
62.5°	440.4	513.9	616.6	709.6	746.0
65°	389.4	468.4	576.5	671.9	712.0
67.5°	341.4	421.0	535.8	634.8	673.1
70°	290.4	376.6	493.9	596.0	634.8
72.5°	243.6	332.3	455.0	558.3	600.2
75°	195.0	289.8	414.3	520.0	559.5
77.5°	151.9	248.5	377.9	484.2	523.7
80°	110.0	210.8	341.4	448.3	486.6
82.5°	74.7	176.2	309.2	415.5	453.2
85°	43.1	145.2	279.4	382.7	419.8
87.5°	16.4	120.9	252.7	354.2	388.2
90°	0.6	102.7	229.6	327.4	362.1
92.5°	0.6	89.9	212.0	303.1	335.3
95°	0.6	81.4	195.6	281.9	313.5
97.5°	1.2	74.7	181.0	263.0	291.0
100°	1.2	68.0	168.9	244.8	271.5
102.5°	1.2	61.4	157.9	228.4	253.3
105°	1.2	52.2	148.2	213.2	237.5
107.5°	1.2	40.7	137.3	200.5	221.7
110°	1.2	29.8	125.8	187.7	208.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	18.2	115.4	175.0	195.0
115°	1.2	6.7	102.7	161.0	181.0
117.5°	1.2	2.4	87.5	147.6	165.2
120°	1.2	1.8	72.9	133.0	150.7
122.5°	1.2	1.8	57.7	117.2	136.1
125°	1.2	1.8	43.1	100.2	120.3
127.5°	1.2	1.2	27.9	82.6	100.8
130°	1.2	1.2	13.4	65.6	83.2
132.5°	1.2	1.2	0.6	48.0	65.0
135°	1.2	0.6	0.6	31.6	46.8
137.5°	1.2	0.6	0.0	15.2	30.4
140°	1.2	0.6	0.0	0.0	12.1
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)