

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: P289643

Luminaire Tested: **8SSRK-TB-50-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-TB-50-L930-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 90 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3866.6 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.08 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

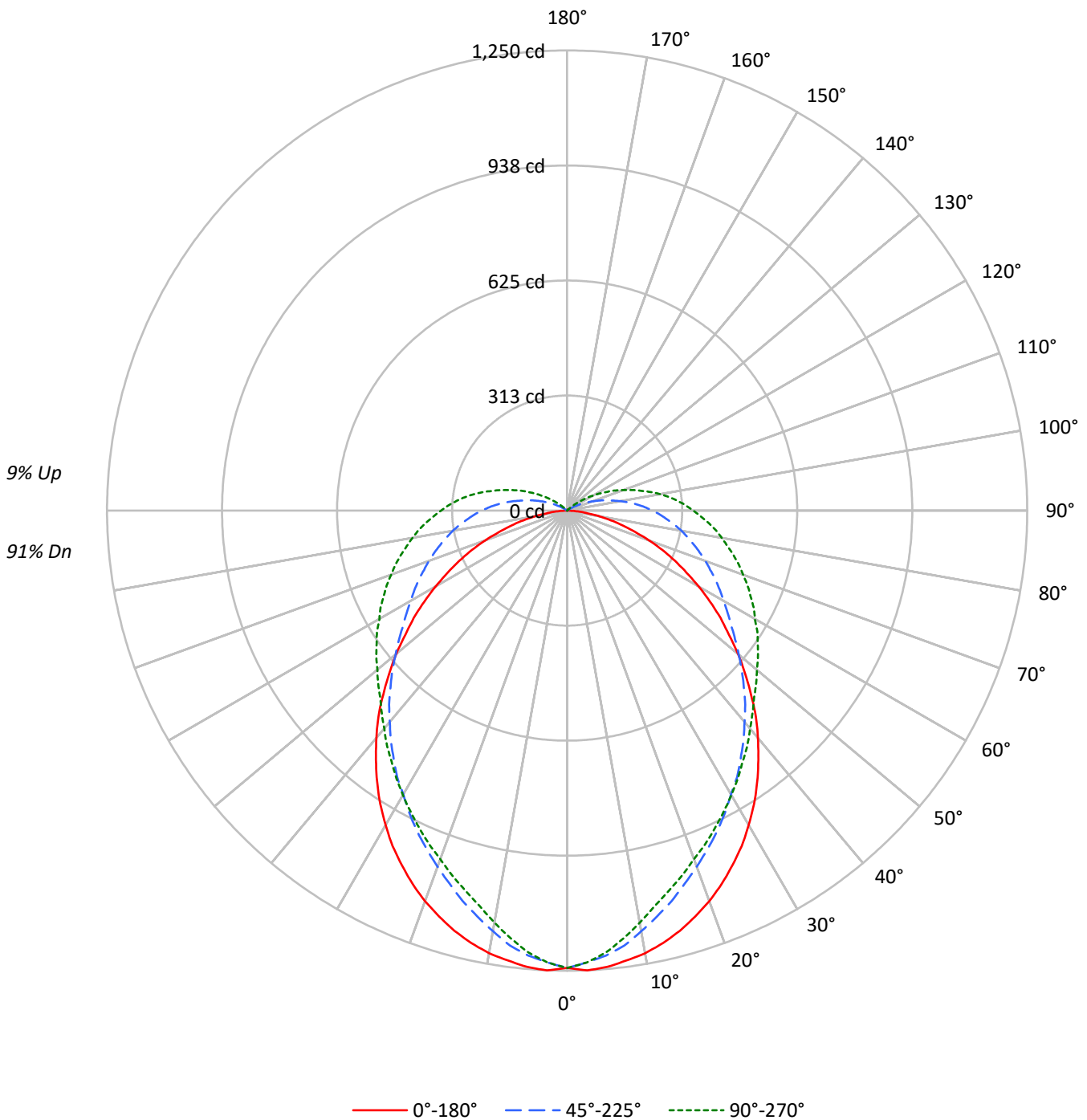
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91
1	104	98	93	89	100	95	90	86	89	85	82	84	80	78	78	76	74	71
2	94	85	77	71	90	82	75	69	77	71	66	72	67	63	68	64	60	58
3	85	74	65	58	82	72	64	57	67	60	55	63	58	53	60	55	51	48
4	78	65	56	49	75	63	55	48	60	52	47	56	50	45	53	48	43	41
5	72	58	49	42	69	57	48	41	53	46	40	50	44	39	48	42	38	35
6	66	53	43	37	64	51	42	36	48	41	35	46	39	34	43	38	33	31
7	61	48	39	32	59	46	38	32	44	37	31	42	35	30	40	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	31	26	24
9	54	40	32	26	52	39	31	26	37	30	25	35	29	24	34	28	24	22
10	50	37	29	24	48	36	28	23	34	28	23	33	27	22	31	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	40122	40122	40122
5°	40267	31490	28941
10°	39890	25342	21858
15°	39289	20829	17240
20°	38505	17381	14100
25°	37492	14748	11826
30°	36335	12567	10054
35°	34972	10832	8625
40°	33400	9330	7479
45°	31601	8068	6559
50°	29735	6966	5863
55°	27812	6052	5301
60°	25738	5354	4798
65°	23617	4782	4386
70°	21147	4277	4006
75°	18117	3827	3663
80°	14652	3421	3349
85°	9965	3009	3057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	3.0
10°-20°	313.5	8.1
20°-30°	453.6	11.7
30°-40°	527.7	13.6
40°-50°	537.1	13.9
50°-60°	499.8	12.9
60°-70°	435.2	11.3
70°-80°	354.2	9.2
80°-90°	268.4	6.9
90°-100°	186.1	4.8
100°-110°	109.4	2.8
110°-120°	51.3	1.3
120°-130°	14.6	0.4
130°-140°	0.8	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°	882.2	22.8
0°-40°	1409.8	36.5
0°-60°	2446.7	63.3
0°-90°	3504.5	90.6
90°-120°	346.7	9.0
90°-150°	362.1	9.4
90°-180°	362.0	9.4
0°-180°	3866.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1242	1242	1242	1242	1242	
5°	1244	1235	1213	1213	1205	118
15°	1182	1150	1098	1078	1068	333
25°	1062	1016	963	955	951	489
35°	900	853	822	830	832	562
45°	706	679	679	706	718	545
55°	509	507	544	608	632	454
65°	323	350	444	522	550	320
75°	156	229	356	438	468	167
85°	33	143	272	358	386	38
90°	0	104	231	315	342	2
95°	0	66	190	274	301	0
105°	0	16	108	182	207	0
115°	0	0	43	100	121	0
125°	0	0	2	33	49	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	2	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°	1242.5	1242.5	1242.5	1242.5	1242.5
2.5°	1250.3	1244.5	1228.8	1234.7	1228.8
5°	1244.5	1234.7	1213.1	1213.1	1205.3
7.5°	1232.7	1221.0	1191.6	1181.8	1172.1
10°	1221.0	1203.4	1160.3	1148.6	1136.8
12.5°	1203.4	1177.9	1129.0	1111.4	1099.7
15°	1181.8	1150.5	1097.7	1078.1	1068.4
17.5°	1156.4	1121.2	1062.5	1046.8	1039.0
20°	1129.0	1087.9	1029.2	1015.5	1007.7
22.5°	1097.7	1050.7	996.0	986.2	980.3
25°	1062.5	1015.5	962.7	954.9	951.0
27.5°	1027.3	976.4	927.5	923.6	921.6
30°	986.2	937.3	890.3	892.3	892.3
32.5°	945.1	896.2	859.0	862.9	862.9
35°	900.1	853.1	821.8	829.6	831.6
37.5°	853.1	812.0	786.6	798.3	804.2
40°	806.2	769.0	749.4	767.0	772.9
42.5°	759.2	724.0	716.1	737.7	745.5
45°	706.4	679.0	679.0	706.4	718.1
47.5°	655.5	637.9	643.8	679.0	696.6
50°	606.6	592.9	608.5	653.5	673.1
52.5°	553.7	549.8	575.3	630.1	653.5
55°	508.7	506.8	544.0	608.5	632.0
57.5°	459.8	465.7	516.6	587.0	612.4
60°	412.9	424.6	491.1	565.5	589.0
62.5°	365.9	389.4	467.6	544.0	571.4
65°	322.9	350.2	444.2	522.4	549.8
67.5°	279.8	315.0	420.7	502.9	530.3
70°	236.8	283.7	399.2	481.3	508.7
72.5°	193.7	256.3	377.6	459.8	489.2
75°	156.5	228.9	356.1	438.3	467.6
77.5°	121.3	207.4	334.6	420.7	446.1
80°	88.1	183.9	315.0	399.2	426.6
82.5°	56.7	164.4	293.5	377.6	407.0
85°	33.3	142.8	272.0	358.1	385.5
87.5°	13.7	121.3	252.4	336.6	363.9
90°	0.0	103.7	230.9	315.0	342.4
92.5°	0.0	86.1	211.3	295.5	322.9
95°	0.0	66.5	189.8	273.9	301.3
97.5°	0.0	50.9	168.3	252.4	279.8
100°	0.0	39.1	146.8	227.0	256.3
102.5°	0.0	27.4	125.2	203.5	232.8
105°	0.0	15.7	107.6	182.0	207.4
107.5°	0.0	7.8	90.0	160.4	185.9
110°	0.0	2.0	72.4	138.9	162.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	56.7	119.4	142.8
115°	0.0	0.0	43.0	99.8	121.3
117.5°	0.0	0.0	29.4	82.2	101.7
120°	0.0	0.0	17.6	64.6	82.2
122.5°	0.0	0.0	7.8	48.9	64.6
125°	0.0	0.0	2.0	33.3	48.9
127.5°	0.0	0.0	0.0	19.6	33.3
130°	0.0	0.0	0.0	9.8	19.6
132.5°	0.0	0.0	0.0	2.0	7.8
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
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°	2.0	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)