

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: P290486

Luminaire Tested: **8SSRK-SLW-50-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290486
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-L940-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4196.7 lumens
Efficiency: N/A
Efficacy: 122.7 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

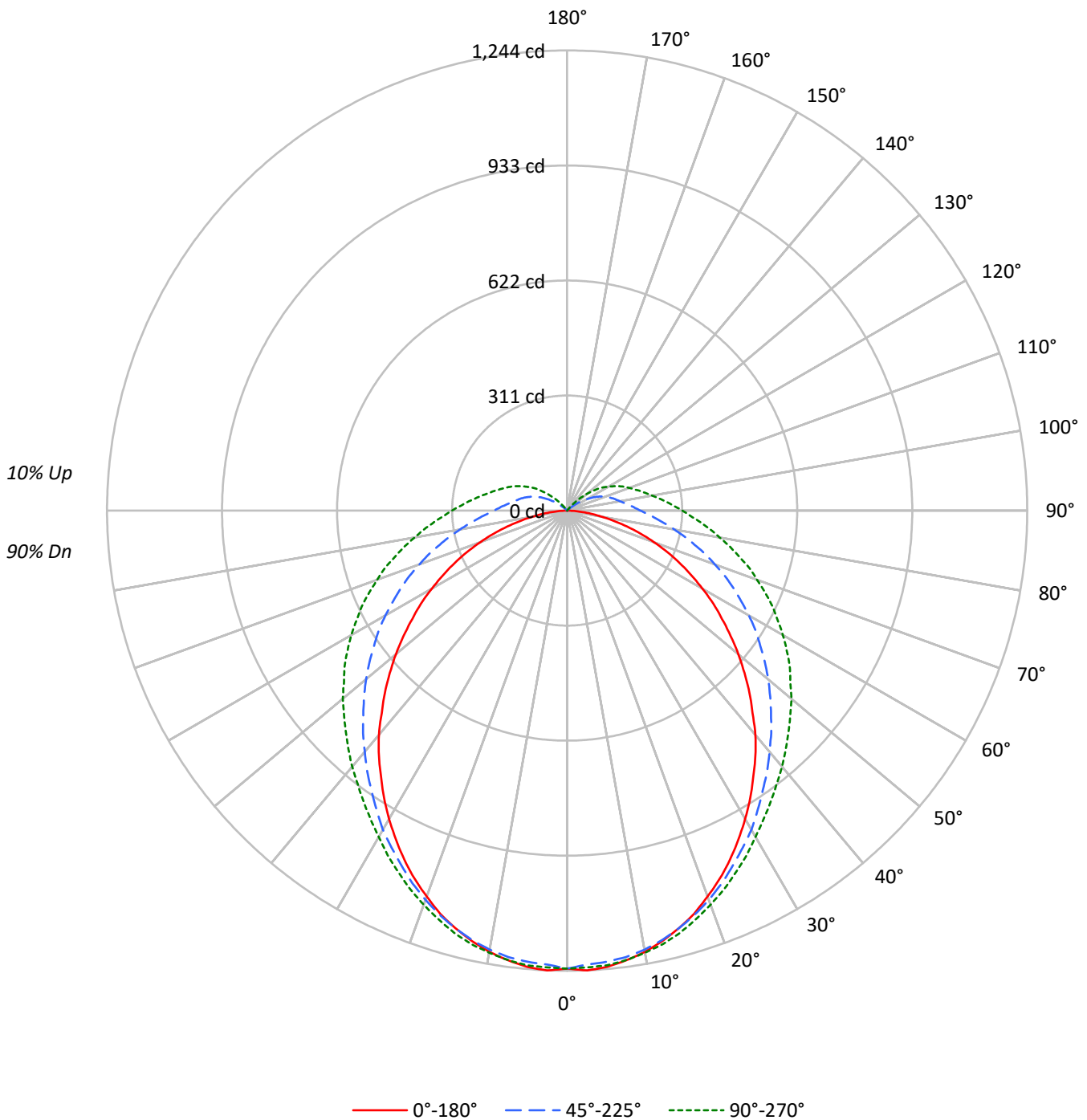
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	39983	39983	39983
5°	40063	31788	29631
10°	39579	26322	23335
15°	38853	22176	19060
20°	37860	18914	15862
25°	36758	16222	13421
30°	35470	14062	11478
35°	34094	12159	9958
40°	32804	10594	8749
45°	31189	9260	7729
50°	29642	8126	6897
55°	27948	7088	6164
60°	26324	6182	5488
65°	24502	5340	4887
70°	22308	4553	4301
75°	19425	3831	3771
80°	15733	3189	3287
85°	11102	2659	2864



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	2.8
10°-20°	330.9	7.9
20°-30°	489.6	11.7
30°-40°	578.2	13.8
40°-50°	601.1	14.3
50°-60°	566.7	13.5
60°-70°	483.0	11.5
70°-80°	365.3	8.7
80°-90°	246.5	5.9
90°-100°	169.2	4.0
100°-110°	121.4	2.9
110°-120°	77.9	1.9
120°-130°	39.7	0.9
130°-140°	10.1	0.2
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°	937.5	22.3
0°-40°	1515.7	36.1
0°-60°	2683.4	63.9
0°-90°	3778.3	90.0
90°-120°	368.5	8.8
90°-150°	418.4	10.0
90°-180°	418.0	10.0
0°-180°	4196.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1238	1238	1238	1238	1238	
5°	1238	1235	1225	1236	1234	117
15°	1169	1172	1169	1180	1181	329
25°	1042	1054	1059	1077	1079	479
35°	878	898	922	950	960	550
45°	697	732	779	827	846	538
55°	511	564	637	706	735	459
65°	335	403	496	578	613	332
75°	168	249	356	447	481	179
85°	37	125	240	329	361	42
90°	0	88	198	282	312	2
95°	0	70	168	242	270	1
105°	1	45	128	184	204	1
115°	1	6	88	138	156	1
125°	1	2	37	86	104	1
135°	1	0	0	27	40	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°	1238.2	1238.2	1238.2	1238.2	1238.2
2.5°	1244.4	1240.3	1228.2	1238.7	1236.1
5°	1238.2	1235.0	1224.6	1236.1	1234.0
7.5°	1226.1	1225.6	1217.3	1229.3	1225.6
10°	1211.5	1212.0	1205.2	1217.3	1213.6
12.5°	1191.7	1193.7	1189.0	1200.5	1200.0
15°	1168.7	1172.3	1168.7	1180.2	1181.2
17.5°	1142.5	1148.3	1145.7	1159.8	1158.2
20°	1110.1	1118.0	1120.0	1134.2	1133.6
22.5°	1077.7	1087.6	1091.3	1105.9	1108.0
25°	1041.7	1053.7	1058.9	1077.2	1079.3
27.5°	1002.5	1018.1	1027.5	1045.8	1050.5
30°	962.7	979.5	996.2	1014.5	1018.7
32.5°	921.4	939.7	959.1	984.2	988.9
35°	877.5	898.4	922.5	950.2	960.1
37.5°	836.2	859.8	888.0	920.4	930.8
40°	791.8	815.9	850.9	887.5	904.2
42.5°	742.2	774.6	816.4	860.3	874.9
45°	697.2	731.7	779.3	827.4	846.2
47.5°	650.2	690.4	744.3	797.6	818.0
50°	604.7	648.6	709.8	767.3	791.8
52.5°	557.7	607.3	673.7	737.5	760.5
55°	511.2	563.9	637.1	705.6	734.9
57.5°	469.3	523.2	604.2	674.2	704.0
60°	422.3	484.5	567.1	642.3	673.7
62.5°	378.9	442.2	530.5	610.5	641.8
65°	335.0	403.0	496.0	578.1	612.6
67.5°	293.7	362.2	461.0	546.2	579.1
70°	249.8	324.0	424.9	512.7	546.2
72.5°	209.6	285.9	391.5	480.3	516.4
75°	167.8	249.3	356.5	447.4	481.4
77.5°	130.7	213.8	325.1	416.6	450.5
80°	94.6	181.4	293.7	385.7	418.6
82.5°	64.3	151.6	266.0	357.5	389.9
85°	37.1	124.9	240.4	329.3	361.2
87.5°	14.1	104.0	217.4	304.7	334.0
90°	0.5	88.3	197.6	281.7	311.5
92.5°	0.5	77.4	182.4	260.8	288.5
95°	0.5	70.0	168.3	242.5	269.7
97.5°	1.0	64.3	155.8	226.3	250.4
100°	1.0	58.5	145.3	210.6	233.6
102.5°	1.0	52.8	135.9	196.5	217.9
105°	1.0	44.9	127.5	183.5	204.4
107.5°	1.0	35.0	118.1	172.5	190.8
110°	1.0	25.6	108.2	161.5	179.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	15.7	99.3	150.5	167.8
115°	1.0	5.7	88.3	138.5	155.8
117.5°	1.0	2.1	75.3	127.0	142.2
120°	1.0	1.6	62.7	114.5	129.6
122.5°	1.0	1.6	49.7	100.9	117.1
125°	1.0	1.6	37.1	86.2	103.5
127.5°	1.0	1.0	24.0	71.1	86.8
130°	1.0	1.0	11.5	56.4	71.6
132.5°	1.0	1.0	0.5	41.3	55.9
135°	1.0	0.5	0.5	27.2	40.2
137.5°	1.0	0.5	0.0	13.1	26.1
140°	1.0	0.5	0.0	0.0	10.5
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)