

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: P290481

Luminaire Tested: **8SSRK-SLW-40-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290481
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-40-L835-CD1-U
Description: 4000 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: 3874.7 lumens
Efficiency: N/A
Efficacy: 143.4 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

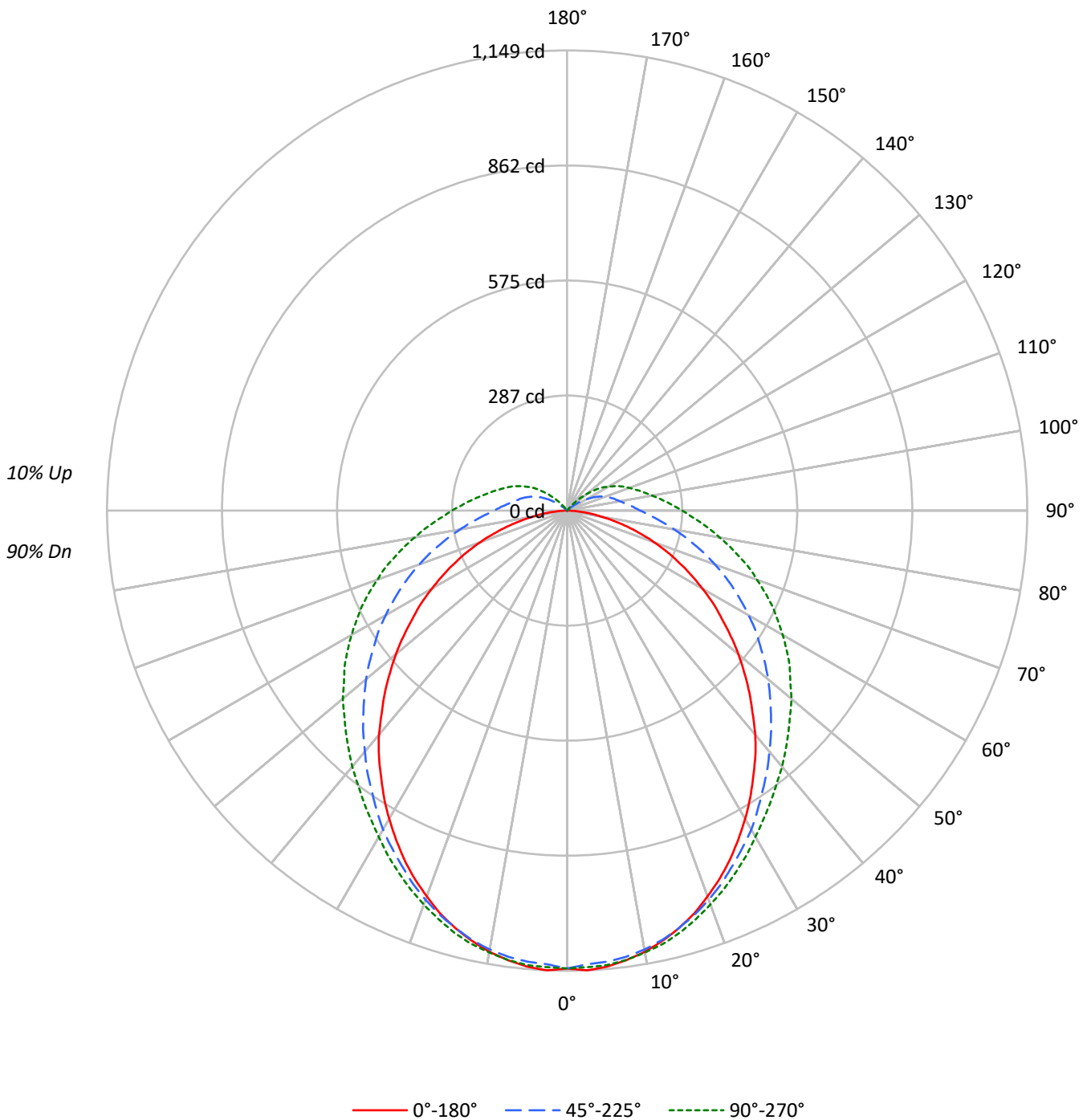
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	36916	36916	36916
5°	36989	29348	27357
10°	36544	24304	21545
15°	35871	20474	17598
20°	34958	17464	14646
25°	33935	14978	12392
30°	32750	12984	10597
35°	31479	11226	9194
40°	30289	9781	8078
45°	28796	8550	7136
50°	27368	7502	6369
55°	25800	6544	5691
60°	24304	5708	5067
65°	22622	4930	4512
70°	20602	4203	3971
75°	17932	3536	3481
80°	14519	2945	3035
85°	10264	2455	2644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.0	2.8
10°-20°	305.5	7.9
20°-30°	452.0	11.7
30°-40°	533.8	13.8
40°-50°	554.9	14.3
50°-60°	523.2	13.5
60°-70°	446.0	11.5
70°-80°	337.3	8.7
80°-90°	227.6	5.9
90°-100°	156.3	4.0
100°-110°	112.1	2.9
110°-120°	71.9	1.9
120°-130°	36.7	0.9
130°-140°	9.3	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°	865.6	22.3
0°-40°	1399.4	36.1
0°-60°	2477.6	63.9
0°-90°	3488.4	90.0
90°-120°	340.2	8.8
90°-150°	386.3	10.0
90°-180°	386.0	10.0
0°-180°	3874.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1143	1143	1143	1143	1143	
5°	1143	1140	1131	1141	1139	108
15°	1079	1082	1079	1090	1091	304
25°	962	973	978	995	996	442
35°	810	830	852	877	886	507
45°	644	676	720	764	781	497
55°	472	521	588	652	678	423
65°	309	372	458	534	566	307
75°	155	230	329	413	444	166
85°	34	115	222	304	333	39
90°	0	82	182	260	288	2
95°	0	65	155	224	249	1
105°	1	42	118	169	189	1
115°	1	5	82	128	144	1
125°	1	1	34	80	96	1
135°	1	0	0	25	37	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°	1143.2	1143.2	1143.2	1143.2	1143.2
2.5°	1149.0	1145.1	1134.0	1143.7	1141.2
5°	1143.2	1140.3	1130.6	1141.2	1139.3
7.5°	1132.1	1131.6	1123.9	1135.0	1131.6
10°	1118.6	1119.1	1112.8	1123.9	1120.5
12.5°	1100.2	1102.2	1097.8	1108.4	1108.0
15°	1079.0	1082.4	1079.0	1089.6	1090.6
17.5°	1054.9	1060.2	1057.8	1070.8	1069.3
20°	1025.0	1032.2	1034.1	1047.1	1046.7
22.5°	995.0	1004.2	1007.6	1021.1	1023.0
25°	961.7	972.8	977.7	994.6	996.5
27.5°	925.5	940.0	948.7	965.6	969.9
30°	888.9	904.3	919.8	936.6	940.5
32.5°	850.7	867.6	885.5	908.7	913.0
35°	810.2	829.5	851.7	877.3	886.5
37.5°	772.1	793.8	819.9	849.8	859.4
40°	731.1	753.3	785.6	819.4	834.8
42.5°	685.2	715.2	753.8	794.3	807.8
45°	643.7	675.6	719.5	763.9	781.3
47.5°	600.3	637.5	687.2	736.4	755.2
50°	558.3	598.9	655.3	708.4	731.1
52.5°	514.9	560.7	622.0	680.9	702.1
55°	471.9	520.7	588.2	651.5	678.5
57.5°	433.3	483.0	557.8	622.5	650.0
60°	389.9	447.3	523.6	593.1	622.0
62.5°	349.9	408.2	489.8	563.6	592.6
65°	309.3	372.1	457.9	533.7	565.6
67.5°	271.2	334.4	425.6	504.3	534.7
70°	230.7	299.2	392.3	473.4	504.3
72.5°	193.5	264.0	361.4	443.5	476.8
75°	154.9	230.2	329.1	413.1	444.4
77.5°	120.6	197.4	300.2	384.6	416.0
80°	87.3	167.4	271.2	356.1	386.5
82.5°	59.4	139.9	245.6	330.1	360.0
85°	34.3	115.3	222.0	304.0	333.4
87.5°	13.0	96.0	200.7	281.3	308.4
90°	0.5	81.6	182.4	260.1	287.6
92.5°	0.5	71.4	168.4	240.8	266.4
95°	0.5	64.7	155.4	223.9	249.0
97.5°	1.0	59.4	143.8	208.9	231.1
100°	1.0	54.0	134.2	194.5	215.7
102.5°	1.0	48.7	125.5	181.4	201.2
105°	1.0	41.5	117.7	169.4	188.7
107.5°	1.0	32.3	109.1	159.2	176.1
110°	1.0	23.6	99.9	149.1	165.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	14.5	91.7	139.0	154.9
115°	1.0	5.3	81.6	127.9	143.8
117.5°	1.0	1.9	69.5	117.3	131.3
120°	1.0	1.4	57.9	105.7	119.7
122.5°	1.0	1.4	45.8	93.1	108.1
125°	1.0	1.4	34.3	79.6	95.5
127.5°	1.0	1.0	22.2	65.6	80.1
130°	1.0	1.0	10.6	52.1	66.1
132.5°	1.0	1.0	0.5	38.1	51.6
135°	1.0	0.5	0.5	25.1	37.2
137.5°	1.0	0.5	0.0	12.1	24.1
140°	1.0	0.5	0.0	0.0	9.7
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)