

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: P290483

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290483
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-L850-CD1-U
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 80 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3940.4 lumens
Efficiency: N/A
Efficacy: 145.9 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

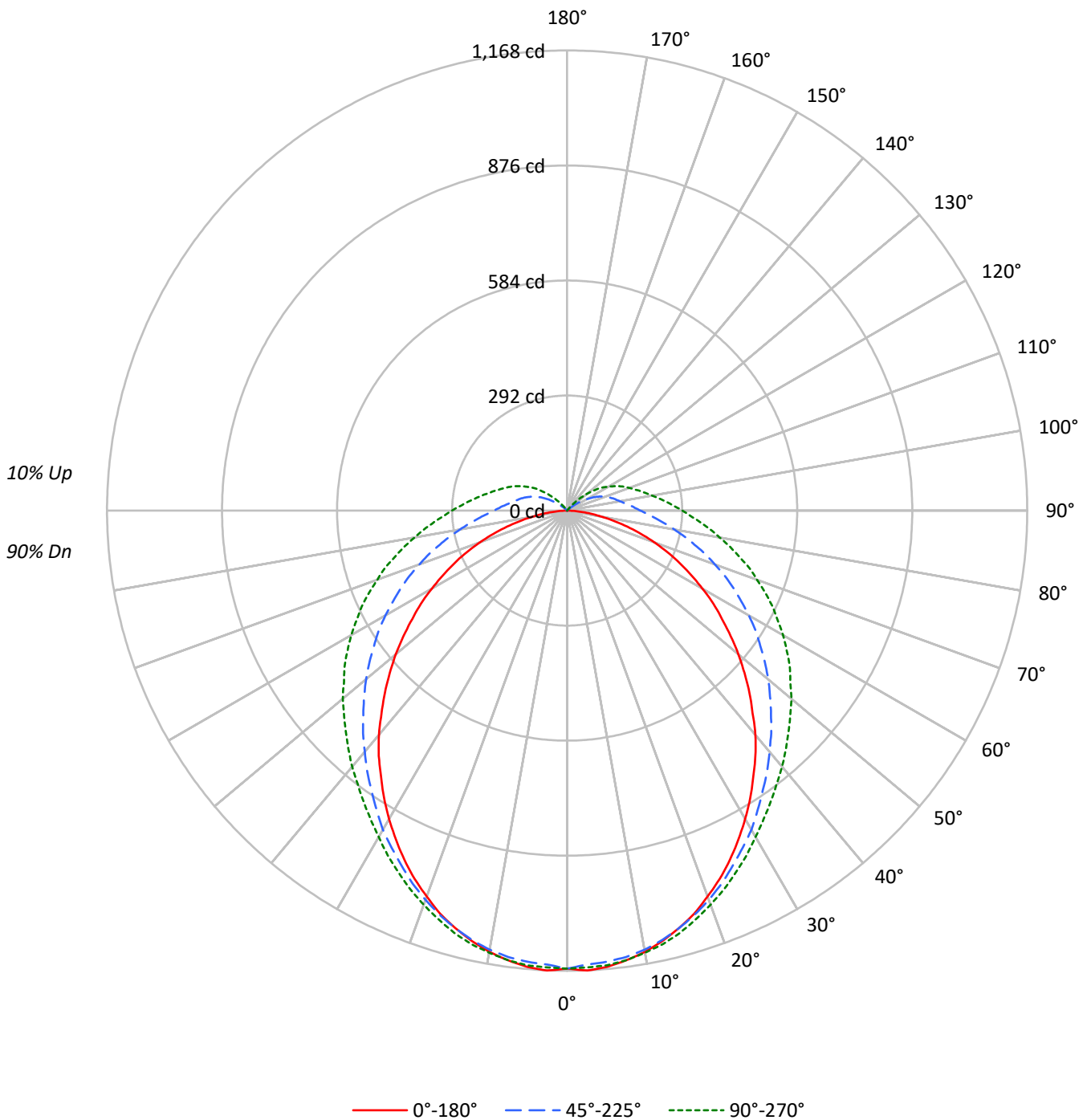
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	37542	37542	37542
5°	37617	29846	27820
10°	37162	24715	21910
15°	36480	20821	17897
20°	35548	17761	14894
25°	34511	15231	12602
30°	33303	13204	10777
35°	32016	11417	9350
40°	30803	9947	8215
45°	29284	8695	7257
50°	27833	7629	6477
55°	26237	6655	5787
60°	24715	5805	5153
65°	23010	5014	4588
70°	20950	4275	4038
75°	18233	3597	3541
80°	14768	2995	3086
85°	10414	2496	2689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	2.8
10°-20°	310.7	7.9
20°-30°	459.7	11.7
30°-40°	542.9	13.8
40°-50°	564.3	14.3
50°-60°	532.1	13.5
60°-70°	453.5	11.5
70°-80°	343.0	8.7
80°-90°	231.4	5.9
90°-100°	158.9	4.0
100°-110°	114.0	2.9
110°-120°	73.1	1.9
120°-130°	37.3	0.9
130°-140°	9.5	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°	880.2	22.3
0°-40°	1423.1	36.1
0°-60°	2519.6	63.9
0°-90°	3547.6	90.0
90°-120°	346.0	8.8
90°-150°	392.9	10.0
90°-180°	393.0	10.0
0°-180°	3940.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1163	1160	1150	1161	1159	110
15°	1097	1101	1097	1108	1109	309
25°	978	989	994	1011	1013	450
35°	824	844	866	892	902	516
45°	655	687	732	777	794	505
55°	480	530	598	662	690	431
65°	315	378	466	543	575	312
75°	158	234	335	420	452	168
85°	35	117	226	309	339	40
90°	0	83	186	264	292	2
95°	0	66	158	228	253	1
105°	1	42	120	172	192	1
115°	1	5	83	130	146	1
125°	1	2	35	81	97	1
135°	1	0	0	26	38	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°	1162.6	1162.6	1162.6	1162.6	1162.6
2.5°	1168.5	1164.5	1153.2	1163.1	1160.6
5°	1162.6	1159.6	1149.8	1160.6	1158.6
7.5°	1151.3	1150.8	1142.9	1154.2	1150.8
10°	1137.5	1138.0	1131.6	1142.9	1139.5
12.5°	1118.9	1120.9	1116.4	1127.2	1126.7
15°	1097.3	1100.7	1097.3	1108.1	1109.1
17.5°	1072.8	1078.2	1075.7	1089.0	1087.5
20°	1042.3	1049.7	1051.7	1064.9	1064.4
22.5°	1011.9	1021.2	1024.7	1038.4	1040.4
25°	978.0	989.3	994.2	1011.4	1013.4
27.5°	941.2	956.0	964.8	982.0	986.4
30°	903.9	919.6	935.4	952.5	956.5
32.5°	865.2	882.4	900.5	924.1	928.5
35°	824.0	843.6	866.2	892.2	901.5
37.5°	785.2	807.3	833.8	864.2	874.0
40°	743.5	766.0	798.9	833.3	849.0
42.5°	696.9	727.3	766.5	807.8	821.5
45°	654.6	687.0	731.7	776.8	794.5
47.5°	610.5	648.3	698.8	748.9	768.0
50°	567.8	609.0	666.4	720.4	743.5
52.5°	523.6	570.2	632.6	692.4	714.0
55°	479.9	529.5	598.2	662.5	690.0
57.5°	440.7	491.2	567.3	633.1	661.0
60°	396.5	454.9	532.5	603.1	632.6
62.5°	355.8	415.2	498.1	573.2	602.6
65°	314.6	378.4	465.7	542.8	575.1
67.5°	275.8	340.1	432.8	512.8	543.7
70°	234.6	304.3	399.0	481.4	512.8
72.5°	196.8	268.4	367.6	451.0	484.9
75°	157.5	234.1	334.7	420.1	452.0
77.5°	122.7	200.7	305.2	391.1	423.0
80°	88.8	170.3	275.8	362.2	393.1
82.5°	60.4	142.3	249.8	335.7	366.1
85°	34.8	117.3	225.7	309.2	339.1
87.5°	13.2	97.7	204.1	286.1	313.6
90°	0.5	82.9	185.5	264.5	292.5
92.5°	0.5	72.6	171.3	244.9	270.9
95°	0.5	65.8	158.0	227.7	253.2
97.5°	1.0	60.4	146.2	212.5	235.1
100°	1.0	55.0	136.4	197.8	219.4
102.5°	1.0	49.6	127.6	184.5	204.6
105°	1.0	42.2	119.7	172.2	191.9
107.5°	1.0	32.9	110.9	161.9	179.1
110°	1.0	24.0	101.6	151.6	168.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	14.7	93.2	141.3	157.5
115°	1.0	5.4	82.9	130.0	146.2
117.5°	1.0	2.0	70.7	119.2	133.5
120°	1.0	1.5	58.9	107.5	121.7
122.5°	1.0	1.5	46.6	94.7	109.9
125°	1.0	1.5	34.8	81.0	97.2
127.5°	1.0	1.0	22.6	66.7	81.5
130°	1.0	1.0	10.8	53.0	67.2
132.5°	1.0	1.0	0.5	38.8	52.5
135°	1.0	0.5	0.5	25.5	37.8
137.5°	1.0	0.5	0.0	12.3	24.5
140°	1.0	0.5	0.0	0.0	9.8
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)