

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: P290443

Luminaire Tested: **4SSRK-SLW-20-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290443
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: 4SSRK-SLW-20-L850-CD1-U
Description: 2000 LUMEN, 4 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: 1972.6 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

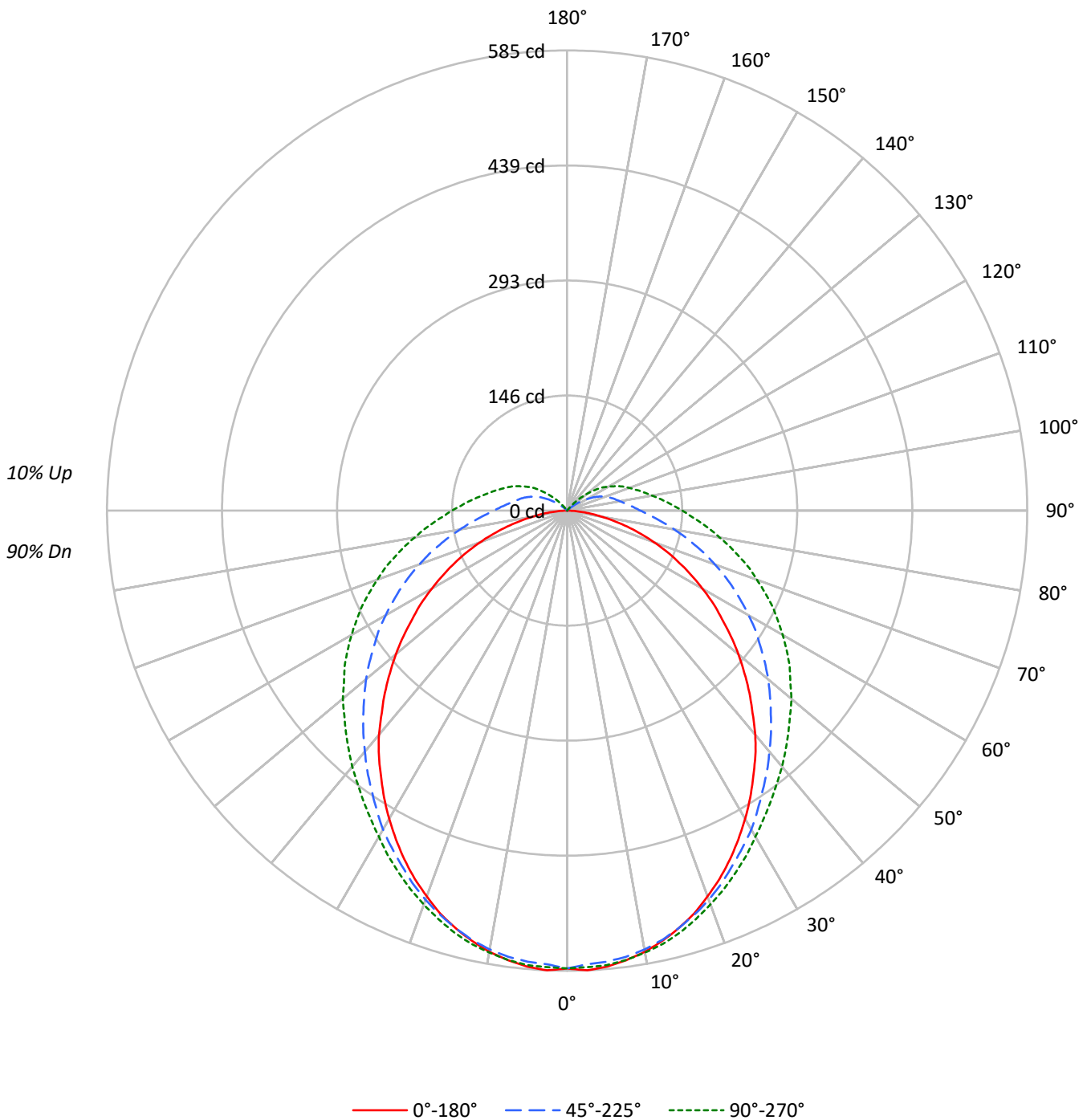
Input Watts (W): 13.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	37587	37587	37587
5°	37594	29852	27854
10°	37075	24703	21939
15°	36321	20799	17918
20°	35326	17736	14913
25°	34224	15204	12617
30°	32952	13179	10789
35°	31600	11391	9361
40°	30319	9924	8225
45°	28733	8672	7267
50°	27213	7608	6485
55°	25537	6636	5794
60°	23914	5788	5160
65°	22094	4997	4593
70°	19891	4260	4043
75°	17038	3585	3545
80°	13387	2985	3090
85°	8734	2487	2693



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	2.8
10°-20°	155.5	7.9
20°-30°	230.1	11.7
30°-40°	271.8	13.8
40°-50°	282.5	14.3
50°-60°	266.4	13.5
60°-70°	227.1	11.5
70°-80°	171.7	8.7
80°-90°	115.9	5.9
90°-100°	79.5	4.0
100°-110°	57.0	2.9
110°-120°	36.6	1.9
120°-130°	18.7	0.9
130°-140°	4.7	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°	440.7	22.3
0°-40°	712.5	36.1
0°-60°	1261.4	63.9
0°-90°	1776.0	90.0
90°-120°	173.2	8.8
90°-150°	196.7	10.0
90°-180°	197.0	10.0
0°-180°	1972.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	582	582	582	582	582	
5°	582	580	576	581	580	55
15°	549	551	549	555	555	155
25°	490	495	498	506	507	225
35°	412	422	434	447	451	258
45°	328	344	366	389	398	253
55°	240	265	300	332	345	216
65°	158	189	233	272	288	156
75°	79	117	168	210	226	84
85°	17	59	113	155	170	20
90°	0	42	93	132	146	1
95°	0	33	79	114	127	0
105°	0	21	60	86	96	1
115°	0	3	42	65	73	0
125°	0	1	17	40	49	0
135°	0	0	0	13	19	0
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°	582.0	582.0	582.0	582.0	582.0
2.5°	585.0	583.0	577.3	582.3	581.0
5°	582.0	580.5	575.6	581.0	580.0
7.5°	576.4	576.1	572.2	577.8	576.1
10°	569.5	569.7	566.5	572.2	570.5
12.5°	560.1	561.1	558.9	564.3	564.1
15°	549.3	551.1	549.3	554.7	555.2
17.5°	537.1	539.8	538.5	545.2	544.4
20°	521.8	525.5	526.5	533.1	532.9
22.5°	506.6	511.3	513.0	519.9	520.8
25°	489.6	495.3	497.7	506.3	507.3
27.5°	471.2	478.6	483.0	491.6	493.8
30°	452.5	460.4	468.3	476.9	478.8
32.5°	433.1	441.7	450.8	462.6	464.8
35°	412.5	422.3	433.6	446.6	451.3
37.5°	393.1	404.1	417.4	432.6	437.6
40°	372.2	383.5	400.0	417.2	425.0
42.5°	348.9	364.1	383.7	404.4	411.3
45°	327.7	344.0	366.3	388.9	397.8
47.5°	305.6	324.5	349.8	374.9	384.5
50°	284.3	304.9	333.6	360.7	372.2
52.5°	262.1	285.5	316.7	346.7	357.5
55°	240.3	265.1	299.5	331.7	345.4
57.5°	220.6	245.9	284.0	316.9	330.9
60°	198.5	227.7	266.6	301.9	316.7
62.5°	178.1	207.8	249.4	287.0	301.7
65°	157.5	189.4	233.1	271.7	287.9
67.5°	138.1	170.3	216.7	256.7	272.2
70°	117.4	152.3	199.7	241.0	256.7
72.5°	98.5	134.4	184.0	225.8	242.7
75°	78.9	117.2	167.6	210.3	226.3
77.5°	61.4	100.5	152.8	195.8	211.8
80°	44.5	85.3	138.1	181.3	196.8
82.5°	30.2	71.2	125.1	168.0	183.3
85°	17.4	58.7	113.0	154.8	169.8
87.5°	6.6	48.9	102.2	143.2	157.0
90°	0.2	41.5	92.9	132.4	146.4
92.5°	0.2	36.4	85.7	122.6	135.6
95°	0.2	32.9	79.1	114.0	126.8
97.5°	0.5	30.2	73.2	106.4	117.7
100°	0.5	27.5	68.3	99.0	109.8
102.5°	0.5	24.8	63.9	92.4	102.4
105°	0.5	21.1	59.9	86.2	96.1
107.5°	0.5	16.5	55.5	81.1	89.7
110°	0.5	12.0	50.9	75.9	84.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	7.4	46.7	70.8	78.9
115°	0.5	2.7	41.5	65.1	73.2
117.5°	0.5	1.0	35.4	59.7	66.8
120°	0.5	0.7	29.5	53.8	60.9
122.5°	0.5	0.7	23.3	47.4	55.0
125°	0.5	0.7	17.4	40.5	48.6
127.5°	0.5	0.5	11.3	33.4	40.8
130°	0.5	0.5	5.4	26.5	33.7
132.5°	0.5	0.5	0.2	19.4	26.3
135°	0.5	0.2	0.2	12.8	18.9
137.5°	0.5	0.2	0.0	6.1	12.3
140°	0.5	0.2	0.0	0.0	4.9
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)