

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: P290352

Luminaire Tested: **4SSRK-SLN-20-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290352  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-15)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SSRK-SLN-20-L830-CD1-U  
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 80 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2055.6 lumens  
Efficiency: N/A  
Efficacy: 150.0 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

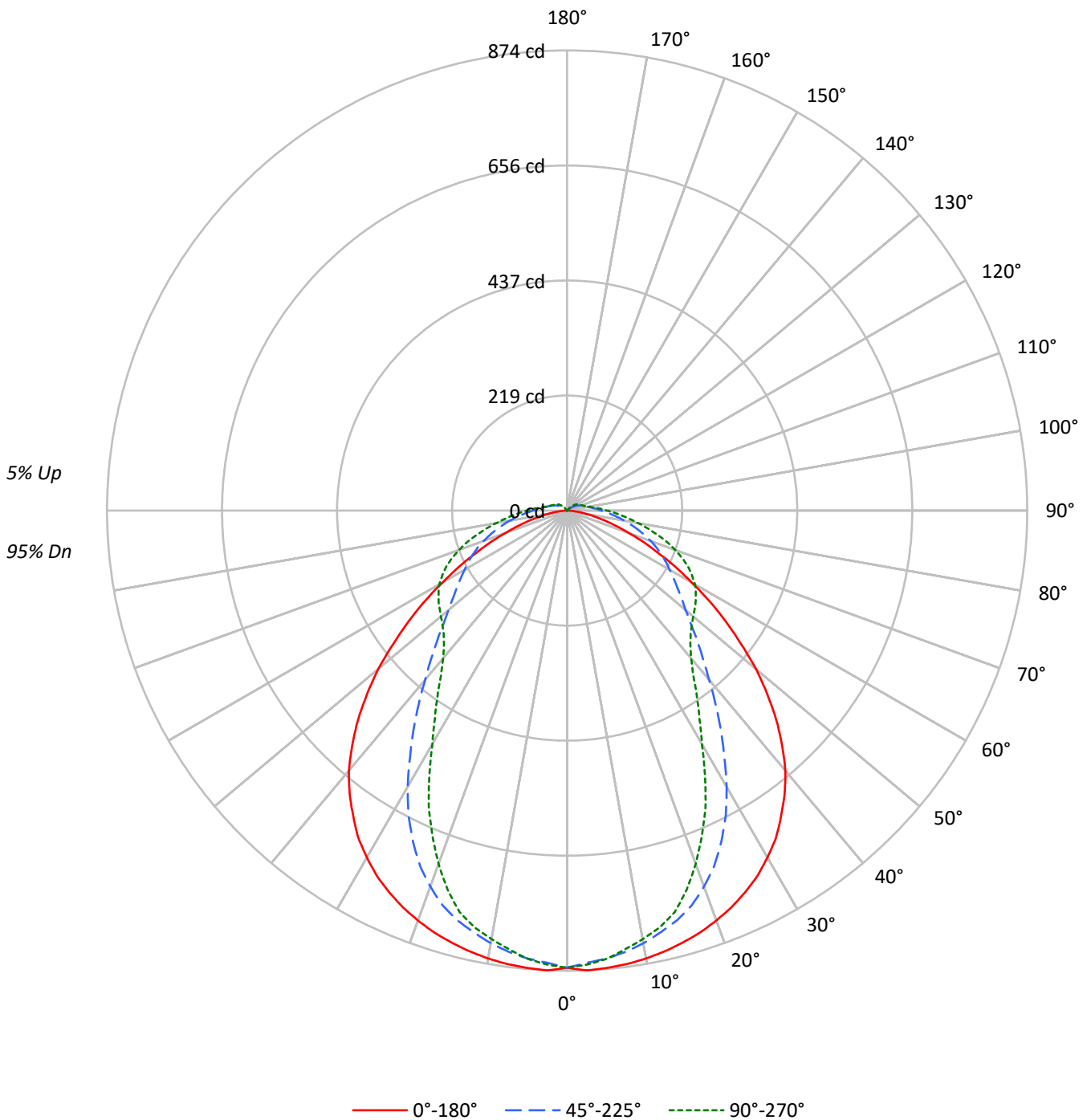
Input Watts (W): 13.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	95
1	107	102	98	94	104	100	96	92	94	91	88	90	87	85	85	83	81	79
2	98	90	83	77	95	87	81	76	83	78	73	79	75	71	75	72	69	66
3	90	79	71	65	87	77	70	64	74	67	62	70	65	60	67	63	59	56
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	49
5	76	64	55	48	74	62	54	48	60	52	47	57	51	46	55	49	45	43
6	71	58	49	43	68	56	48	42	54	47	42	52	46	41	50	45	40	38
7	66	53	44	38	64	52	44	38	50	42	37	48	41	37	46	40	36	34
8	61	48	40	34	60	47	40	34	46	39	34	44	38	33	43	37	33	31
9	57	44	37	31	56	44	36	31	42	35	31	41	35	30	40	34	30	28
10	54	41	34	28	53	41	33	28	39	33	28	38	32	28	37	31	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	56071	56071	56071
5°	56326	44301	41055
10°	56228	36389	31792
15°	56152	30504	25482
20°	56097	25602	19984
25°	55914	21170	15469
30°	55396	17056	11544
35°	54268	13377	8901
40°	52525	10401	7083
45°	49250	8260	6061
50°	44826	6693	5450
55°	39140	5661	5004
60°	32901	4878	4570
65°	26822	4236	4051
70°	21247	3607	3436
75°	16045	2977	2776
80°	11221	2386	2145
85°	6576	1867	1630



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.5	4.0
10°-20°	228.5	11.1
20°-30°	321.4	15.6
30°-40°	336.5	16.4
40°-50°	304.7	14.8
50°-60°	259.3	12.6
60°-70°	205.1	10.0
70°-80°	139.6	6.8
80°-90°	79.7	3.9
90°-100°	44.2	2.1
100°-110°	27.0	1.3
110°-120°	16.4	0.8
120°-130°	8.9	0.4
130°-140°	2.7	0.1
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°	631.5	30.7
0°-40°	968.0	47.1
0°-60°	1532.0	74.5
0°-90°	1956.4	95.2
90°-120°	87.6	4.3
90°-150°	99.2	4.8
90°-180°	99.0	4.8
0°-180°	2055.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	872	867	854	858	855	83
15°	849	833	806	797	790	240
25°	800	760	693	639	622	369
35°	708	629	509	446	429	443
45°	562	446	349	331	332	431
55°	368	281	256	285	298	329
65°	191	166	198	241	254	193
75°	74	90	139	171	177	81
85°	13	43	85	101	103	16
90°	0	30	65	76	76	1
95°	0	23	51	56	56	0
105°	0	14	34	36	34	1
115°	0	2	23	27	26	0
125°	0	0	10	18	20	0
135°	0	0	0	8	10	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



TEST NUMBER: P290352

CATALOG NUMBER: 4SSRK-SLN-20-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	868.2	868.2	868.2	868.2	868.2
2.5°	874.2	869.4	859.5	865.9	863.0
5°	872.0	866.6	854.2	858.0	854.9
7.5°	868.7	861.4	845.4	846.6	840.7
10°	863.7	854.2	834.5	832.4	826.7
12.5°	857.3	844.3	820.5	817.7	811.0
15°	849.2	833.1	805.6	797.2	789.6
17.5°	840.2	819.8	786.3	767.8	754.7
20°	828.6	802.7	760.0	733.1	714.1
22.5°	815.5	784.2	730.3	689.9	668.3
25°	799.9	760.2	693.0	639.3	622.0
27.5°	782.5	735.3	652.4	589.7	566.6
30°	760.7	703.7	606.1	538.9	512.3
32.5°	737.9	669.7	555.7	488.0	467.4
35°	708.4	628.6	509.2	445.5	429.1
37.5°	678.7	584.7	462.9	407.5	393.0
40°	644.8	540.3	419.2	376.2	366.0
42.5°	604.4	495.2	382.1	349.8	346.3
45°	561.7	446.0	348.9	330.6	331.8
47.5°	515.1	401.4	318.7	315.1	321.1
50°	468.3	359.8	293.5	303.5	312.8
52.5°	416.3	319.7	273.6	294.0	305.2
55°	368.3	281.2	255.5	285.0	298.3
57.5°	320.6	248.4	239.9	275.7	289.7
60°	273.1	218.5	224.7	265.7	280.5
62.5°	231.8	190.0	211.4	254.6	267.4
65°	191.2	166.0	197.6	241.3	253.9
67.5°	157.5	144.6	183.8	225.4	236.8
70°	125.4	124.4	169.1	207.8	218.2
72.5°	97.8	106.2	153.7	189.5	199.5
75°	74.3	90.5	139.2	171.0	177.2
77.5°	54.4	75.8	124.4	152.2	156.5
80°	37.3	62.9	110.4	133.5	136.6
82.5°	23.5	52.0	96.9	116.6	118.7
85°	13.1	43.0	84.8	101.4	102.8
87.5°	5.0	35.4	73.9	88.1	89.3
90°	0.2	29.9	64.8	75.5	75.5
92.5°	0.2	26.1	57.5	65.5	66.0
95°	0.5	23.0	51.1	56.5	56.0
97.5°	0.5	20.9	45.1	49.6	48.2
100°	0.5	19.0	40.6	43.7	42.3
102.5°	0.5	16.9	37.0	38.9	37.3
105°	0.5	14.0	34.2	35.6	34.2
107.5°	0.5	11.2	31.1	33.0	31.6
110°	0.5	8.3	28.3	30.6	29.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.2	5.2	25.6	28.5	27.8
115°	0.5	1.9	23.0	26.8	26.1
117.5°	0.2	0.9	19.7	24.9	24.7
120°	0.2	0.7	16.6	23.3	23.3
122.5°	0.2	0.7	13.8	20.9	21.8
125°	0.2	0.5	10.4	18.5	19.7
127.5°	0.2	0.5	7.4	16.1	17.6
130°	0.2	0.5	3.8	13.3	15.2
132.5°	0.2	0.5	0.5	10.4	12.6
135°	0.5	0.5	0.5	7.6	10.0
137.5°	0.5	0.5	0.5	4.0	7.1
140°	0.5	0.5	0.2	0.2	3.3
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)