

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: P289648

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289648  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-11)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SSRK-20-L830-CD1-U  
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH NO LENS AND 80 CRI 3000K CCT LEDs  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2160.9 lumens  
Efficiency: N/A  
Efficacy: 157.7 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

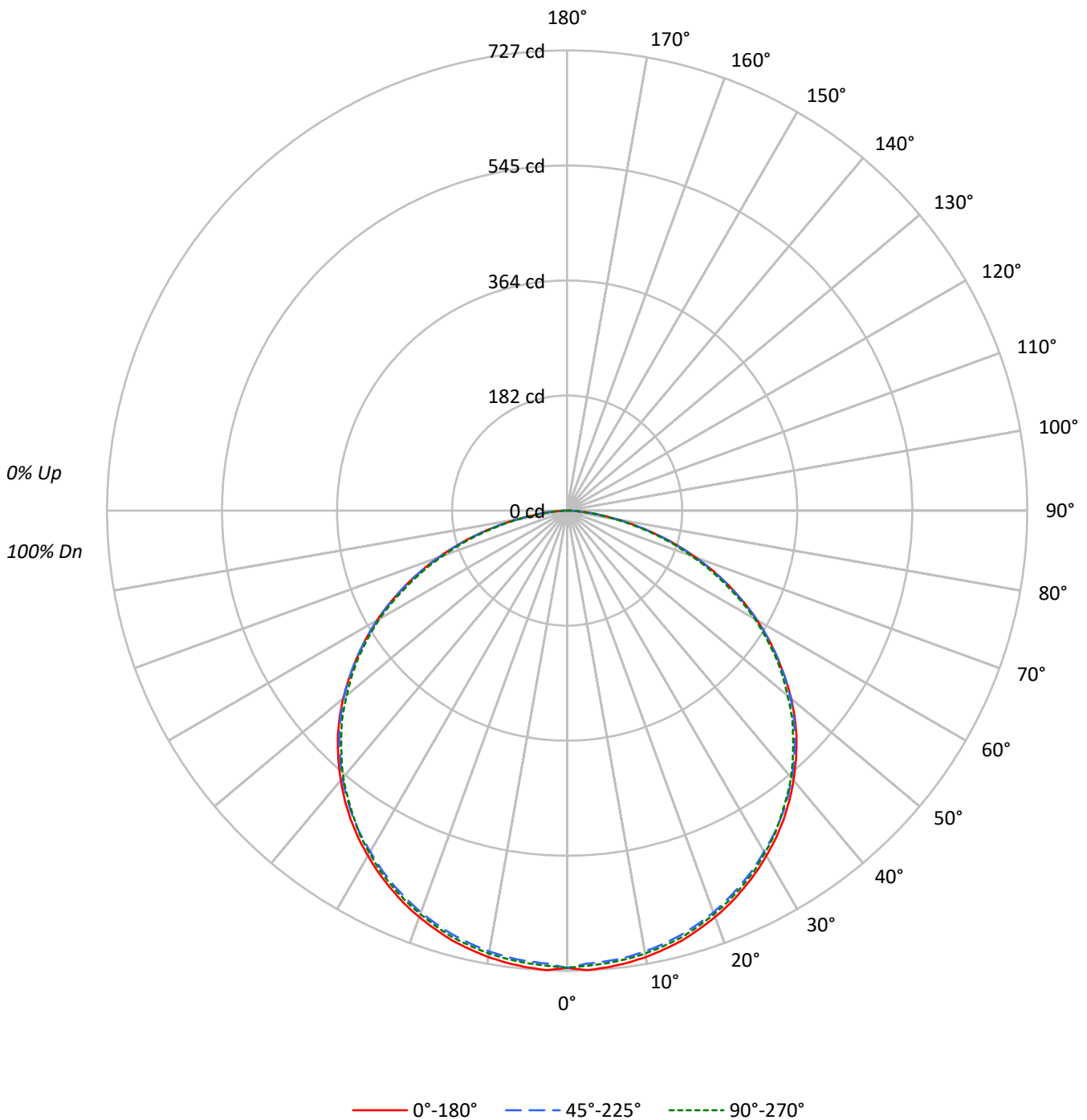
Input Watts (W): 13.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	37	30	25	36	30	25	23

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

	0°	45°	90°
0°	46655	46655	46655
5°	46786	37071	34476
10°	46632	30838	27327
15°	46484	26286	22526
20°	46274	22752	18988
25°	46065	19899	16278
30°	45849	17509	14075
35°	45650	15505	12218
40°	45308	13700	10654
45°	44936	12048	9219
50°	44232	10501	7918
55°	43083	8994	6733
60°	41768	7526	5575
65°	39672	6069	4404
70°	36733	4584	3287
75°	31744	3134	2225
80°	24367	1751	1201
85°	14557	632	395



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.5	3.2
10°-20°	197.3	9.1
20°-30°	302.3	14.0
30°-40°	370.6	17.1
40°-50°	392.6	18.2
50°-60°	362.0	16.8
60°-70°	278.2	12.9
70°-80°	154.2	7.1
80°-90°	35.5	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	568.0	26.3
0°-40°	938.6	43.4
0°-60°	1693.1	78.4
0°-90°	2160.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2160.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	722	722	722	722	722	
5°	724	721	715	722	718	69
15°	703	700	694	700	698	198
25°	659	657	651	658	654	304
35°	596	593	590	592	589	373
45°	512	511	509	508	505	395
55°	405	408	406	404	401	363
65°	283	284	283	279	276	280
75°	147	147	146	144	142	155
85°	29	29	29	27	25	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	722.4	722.4	722.4	722.4	722.4
2.5°	726.7	723.1	716.5	723.1	719.8
5°	724.3	721.2	714.8	721.7	717.9
7.5°	721.0	718.4	712.0	718.6	714.8
10°	716.3	713.4	707.2	714.4	710.6
12.5°	709.8	707.2	701.3	707.9	704.6
15°	703.0	699.6	694.2	700.3	698.0
17.5°	693.5	690.8	685.4	691.3	688.7
20°	683.5	680.9	675.4	681.3	678.5
22.5°	672.1	669.5	663.8	670.2	667.3
25°	659.0	656.6	651.4	658.1	654.5
27.5°	645.2	643.3	637.6	643.1	641.0
30°	629.6	628.4	622.2	626.5	624.6
32.5°	613.7	611.5	607.3	610.6	608.7
35°	595.9	593.0	590.2	592.3	589.0
37.5°	576.9	575.0	571.9	573.8	570.0
40°	556.2	554.5	552.2	552.6	550.5
42.5°	534.8	532.9	531.0	530.1	527.7
45°	512.5	510.8	508.9	508.2	504.7
47.5°	488.3	487.1	485.9	484.2	481.6
50°	462.1	462.6	460.5	459.1	454.5
52.5°	434.1	437.0	433.9	431.7	429.1
55°	405.4	408.5	405.9	404.2	401.4
57.5°	376.9	378.3	376.7	375.5	371.7
60°	346.7	347.9	346.7	344.1	342.2
62.5°	315.6	317.0	314.7	312.8	310.2
65°	282.8	283.6	283.1	279.3	276.0
67.5°	249.8	251.0	249.6	247.0	243.7
70°	216.8	216.1	214.9	213.0	208.7
72.5°	181.9	181.9	181.7	178.1	176.0
75°	147.0	147.2	146.5	144.2	142.0
77.5°	112.1	114.7	112.8	110.4	108.1
80°	81.0	82.6	81.0	77.9	76.5
82.5°	51.8	54.1	52.7	49.6	49.2
85°	29.0	29.4	28.7	27.3	24.9
87.5°	10.9	11.4	11.6	9.5	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)