

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: P290084

Luminaire Tested: **4SSRK-LN-20-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-10)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-LN-20-L930-CD1-U
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 90 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1625.6 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

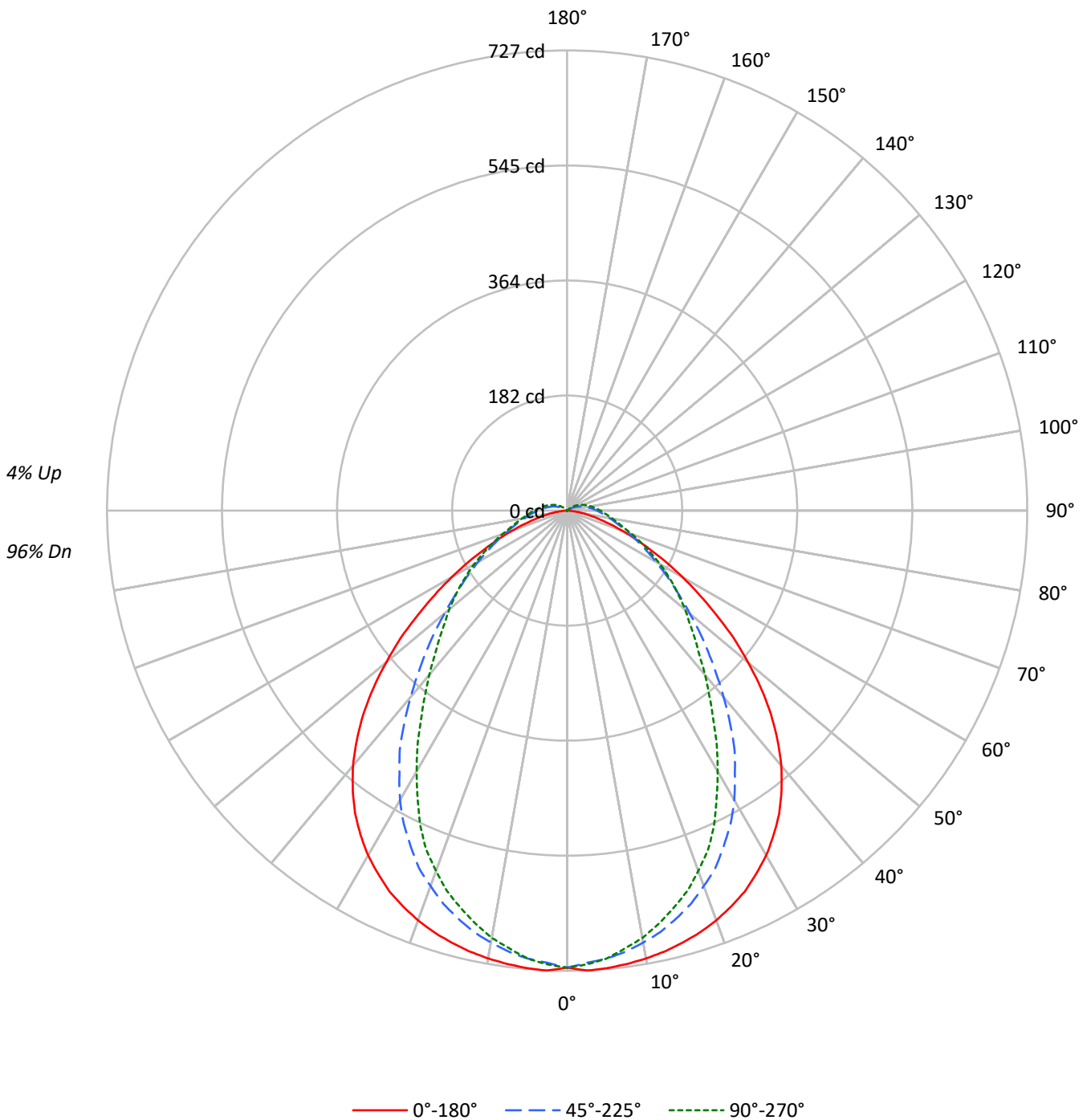
Input Watts (W): 13.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	81				
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	69				
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	59				
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	52				
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	46				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	47	43	41				
7	67	54	46	40	65	53	46	40	52	45	39	50	44	39	48	43	38	36				
8	63	50	42	36	61	49	41	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	38	33	57	45	38	33	44	37	32	43	36	32	41	36	32	30				
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	46635	46635	46635
5°	46863	36853	34126
10°	46769	30219	26358
15°	46709	25256	20970
20°	46632	21267	16945
25°	46414	17871	13651
30°	45805	14870	10715
35°	44738	12108	8339
40°	42872	9535	6553
45°	39930	7450	5206
50°	35684	5758	4241
55°	30617	4483	3444
60°	25359	3515	2770
65°	20060	2765	2187
70°	15486	2191	1720
75°	11402	1780	1369
80°	8002	1468	1135
85°	4618	1237	967



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	4.2
10°-20°	189.8	11.7
20°-30°	273.6	16.8
30°-40°	296.4	18.2
40°-50°	262.5	16.1
50°-60°	199.7	12.3
60°-70°	133.1	8.2
70°-80°	82.2	5.1
80°-90°	51.5	3.2
90°-100°	33.9	2.1
100°-110°	20.7	1.3
110°-120°	10.7	0.7
120°-130°	3.5	0.2
130°-140°	0.2	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°	531.2	32.7
0°-40°	827.6	50.9
0°-60°	1289.8	79.3
0°-90°	1556.6	95.8
90°-120°	65.3	4.0
90°-150°	69.0	4.2
90°-180°	69.0	4.2
0°-180°	1625.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	722	722	722	722	722	
5°	726	721	711	713	711	69
15°	706	693	667	658	650	200
25°	664	633	585	560	549	305
35°	584	529	461	418	402	364
45°	455	384	315	291	285	349
55°	288	235	202	205	205	259
65°	143	125	129	136	137	144
75°	53	64	83	89	87	58
85°	9	33	56	62	61	11
90°	0	24	47	53	52	1
95°	1	17	39	45	45	1
105°	1	7	24	31	32	1
115°	1	1	12	19	21	1
125°	0	0	0	8	10	0
135°	0	0	0	0	0	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°	722.1	722.1	722.1	722.1	722.1
2.5°	727.4	723.4	715.2	720.0	717.7
5°	725.5	720.9	710.6	713.3	710.6
7.5°	722.5	716.7	703.0	704.1	697.8
10°	718.4	710.8	693.0	691.1	685.4
12.5°	713.3	702.6	681.7	674.1	668.5
15°	706.4	693.0	667.0	658.0	649.8
17.5°	698.6	681.4	651.1	640.3	630.5
20°	688.8	667.2	631.3	616.2	605.5
22.5°	677.0	651.7	611.6	589.6	581.0
25°	664.0	632.8	585.0	560.0	548.9
27.5°	646.9	612.0	558.8	527.5	511.6
30°	629.0	587.3	528.4	492.3	475.5
32.5°	607.4	560.3	493.2	454.8	439.9
35°	584.0	529.4	460.9	417.5	402.0
37.5°	556.5	495.9	422.5	382.7	369.2
40°	526.3	459.6	384.3	349.3	338.6
42.5°	491.9	422.7	348.3	318.1	308.9
45°	455.4	384.1	314.7	290.8	285.0
47.5°	415.6	345.5	283.1	266.1	261.9
50°	372.8	306.8	252.5	243.2	243.4
52.5°	332.1	270.3	226.5	224.1	223.5
55°	288.1	235.1	202.3	204.8	205.3
57.5°	248.3	202.5	181.6	186.2	186.8
60°	210.5	173.2	161.9	169.0	170.0
62.5°	175.9	148.2	145.1	152.4	152.2
65°	143.0	125.4	129.0	136.5	137.1
67.5°	115.1	106.9	115.7	122.2	121.8
70°	91.4	90.2	102.7	109.5	109.2
72.5°	71.1	76.3	92.5	98.5	96.9
75°	52.8	64.2	83.2	88.7	87.4
77.5°	38.8	54.3	74.9	80.3	79.3
80°	26.6	46.1	67.9	73.4	72.3
82.5°	17.0	39.2	61.8	67.1	66.3
85°	9.2	33.1	56.2	61.9	61.0
87.5°	3.4	28.1	51.2	57.0	56.6
90°	0.4	24.1	46.8	52.8	52.4
92.5°	0.6	20.5	42.6	48.8	48.8
95°	1.0	17.0	38.8	44.9	44.7
97.5°	0.8	14.3	34.6	41.3	41.3
100°	0.8	11.9	30.8	37.5	37.9
102.5°	0.8	9.4	27.5	34.0	34.8
105°	0.6	6.7	24.3	31.0	31.7
107.5°	0.6	3.8	21.0	28.1	29.1
110°	0.6	1.0	18.2	25.0	26.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	15.3	22.2	23.3
115°	0.6	0.6	12.4	19.3	21.0
117.5°	0.4	0.4	9.2	16.8	18.4
120°	0.4	0.4	5.7	14.1	15.7
122.5°	0.4	0.4	2.5	11.3	13.4
125°	0.4	0.4	0.4	8.4	10.5
127.5°	0.4	0.4	0.2	5.0	7.5
130°	0.4	0.4	0.2	1.9	4.6
132.5°	0.4	0.4	0.2	0.2	1.3
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
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)