

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: P289712

Luminaire Tested: **8SSRK-80-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289712  
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: 8SSRK-80-L830-CD1-U  
Description: 8000 LUMEN, 8 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: 8931.3 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: 8' x H: 0.17')  
CIE Type: Direct

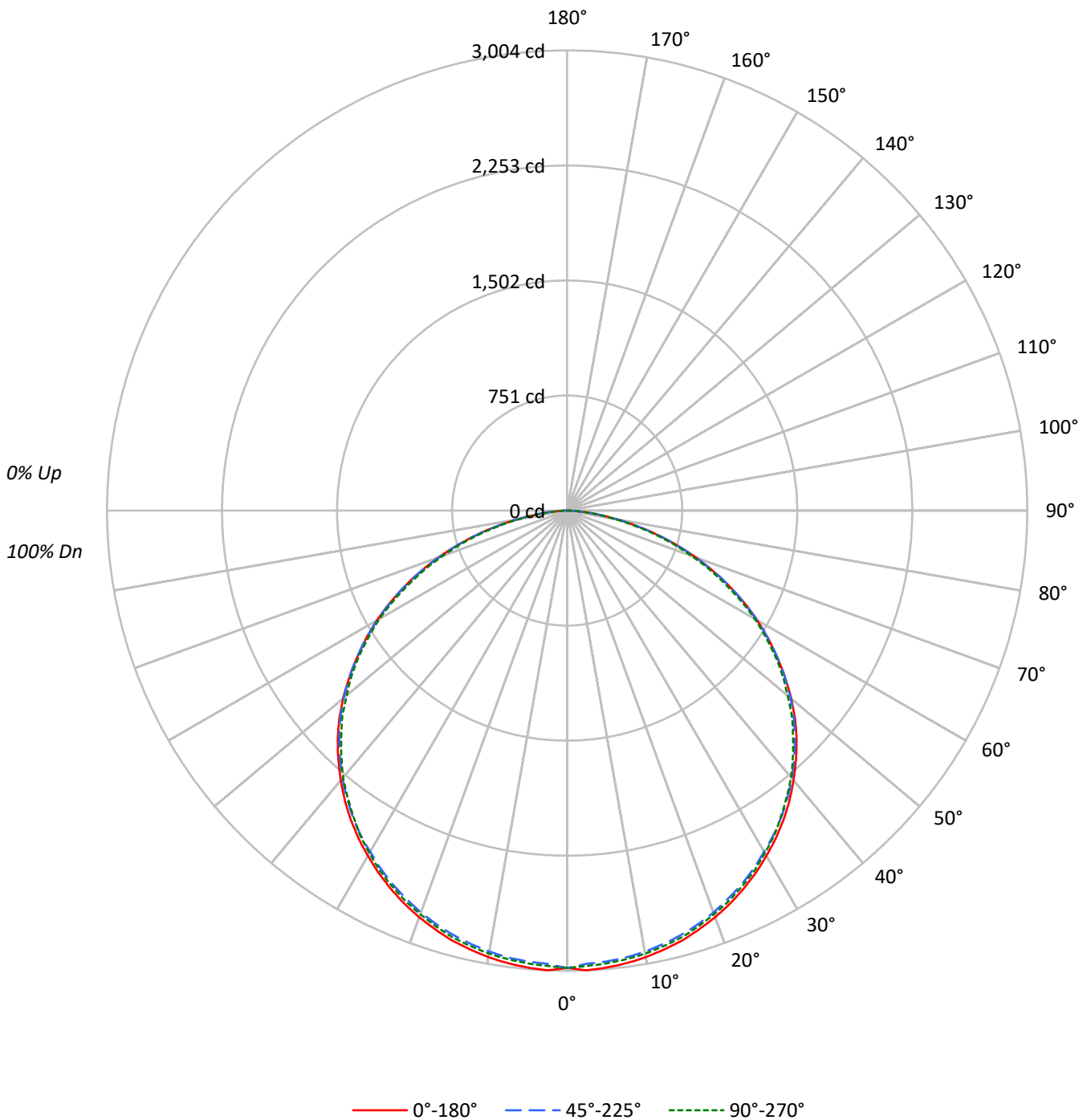
Input Watts (W): 56.6491  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	51	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°	96419	96419	96419
5°	96867	76693	71248
10°	96715	63842	56469
15°	96590	54441	46549
20°	96344	47144	39239
25°	96114	41246	33640
30°	95871	36302	29086
35°	95685	32150	25248
40°	95238	28413	22016
45°	94758	24995	19051
50°	93632	21787	16365
55°	91603	18663	13912
60°	89330	15622	11522
65°	85501	12596	9099
70°	80033	9518	6794
75°	70338	6508	4598
80°	55664	3635	2482
85°	35850	1314	818



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.0	3.2
10°-20°	815.3	9.1
20°-30°	1249.4	14.0
30°-40°	1531.6	17.1
40°-50°	1622.5	18.2
50°-60°	1496.0	16.8
60°-70°	1149.7	12.9
70°-80°	637.2	7.1
80°-90°	146.6	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°	2347.7	26.3
0°-40°	3879.3	43.4
0°-60°	6997.8	78.4
0°-90°	8931.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8931.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2986	2986	2986	2986	2986	
5°	2994	2981	2954	2983	2967	285
15°	2905	2892	2869	2895	2885	820
25°	2724	2714	2692	2720	2705	1256
35°	2463	2451	2439	2448	2434	1541
45°	2118	2111	2104	2100	2086	1632
55°	1676	1688	1678	1671	1659	1498
65°	1169	1172	1170	1154	1141	1156
75°	608	609	606	596	587	643
85°	120	122	119	113	103	149
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2985.9	2985.9	2985.9	2985.9	2985.9
2.5°	3003.6	2988.8	2961.4	2988.8	2975.1
5°	2993.8	2981.0	2954.5	2983.0	2967.2
7.5°	2980.0	2969.2	2942.7	2970.2	2954.5
10°	2960.4	2948.6	2923.1	2952.5	2936.8
12.5°	2933.9	2923.1	2898.5	2926.0	2912.3
15°	2905.4	2891.7	2869.1	2894.6	2884.8
17.5°	2866.1	2855.4	2832.8	2857.3	2846.5
20°	2824.9	2814.1	2791.6	2816.1	2804.3
22.5°	2777.8	2767.0	2743.5	2770.0	2758.2
25°	2723.8	2714.0	2692.4	2719.9	2705.2
27.5°	2666.9	2659.0	2635.5	2658.1	2649.2
30°	2602.1	2597.2	2571.7	2589.3	2581.5
32.5°	2536.3	2527.5	2509.8	2523.6	2515.7
35°	2462.7	2450.9	2439.2	2448.0	2434.3
37.5°	2384.2	2376.4	2363.6	2371.4	2355.7
40°	2298.8	2291.9	2282.1	2284.1	2275.3
42.5°	2210.5	2202.6	2194.8	2190.8	2181.0
45°	2118.2	2111.3	2103.5	2100.5	2085.8
47.5°	2018.1	2013.2	2008.3	2001.4	1990.6
50°	1910.1	1912.1	1903.2	1897.4	1878.7
52.5°	1794.3	1806.1	1793.3	1784.5	1773.7
55°	1675.5	1688.3	1677.5	1670.6	1658.8
57.5°	1557.7	1563.6	1556.8	1551.8	1536.1
60°	1433.1	1438.0	1433.1	1422.3	1414.4
62.5°	1304.5	1310.4	1300.6	1292.7	1281.9
65°	1169.0	1172.0	1170.0	1154.3	1140.6
67.5°	1032.6	1037.5	1031.6	1020.8	1007.1
70°	896.2	893.2	888.3	880.5	862.8
72.5°	751.9	751.9	750.9	736.2	727.3
75°	607.6	608.6	605.6	595.8	587.0
77.5°	463.3	474.1	466.2	456.4	446.6
80°	334.7	341.6	334.7	322.0	316.1
82.5°	214.0	223.8	217.9	205.1	203.2
85°	119.8	121.7	118.8	112.9	103.1
87.5°	45.2	47.1	48.1	39.3	34.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)