

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: P289681

Luminaire Tested: **4SSRK-80-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289681  
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-80-L835-CD1-U  
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH NO LENS AND 80 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8947.3 lumens  
Efficiency: N/A  
Efficacy: 142.2 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

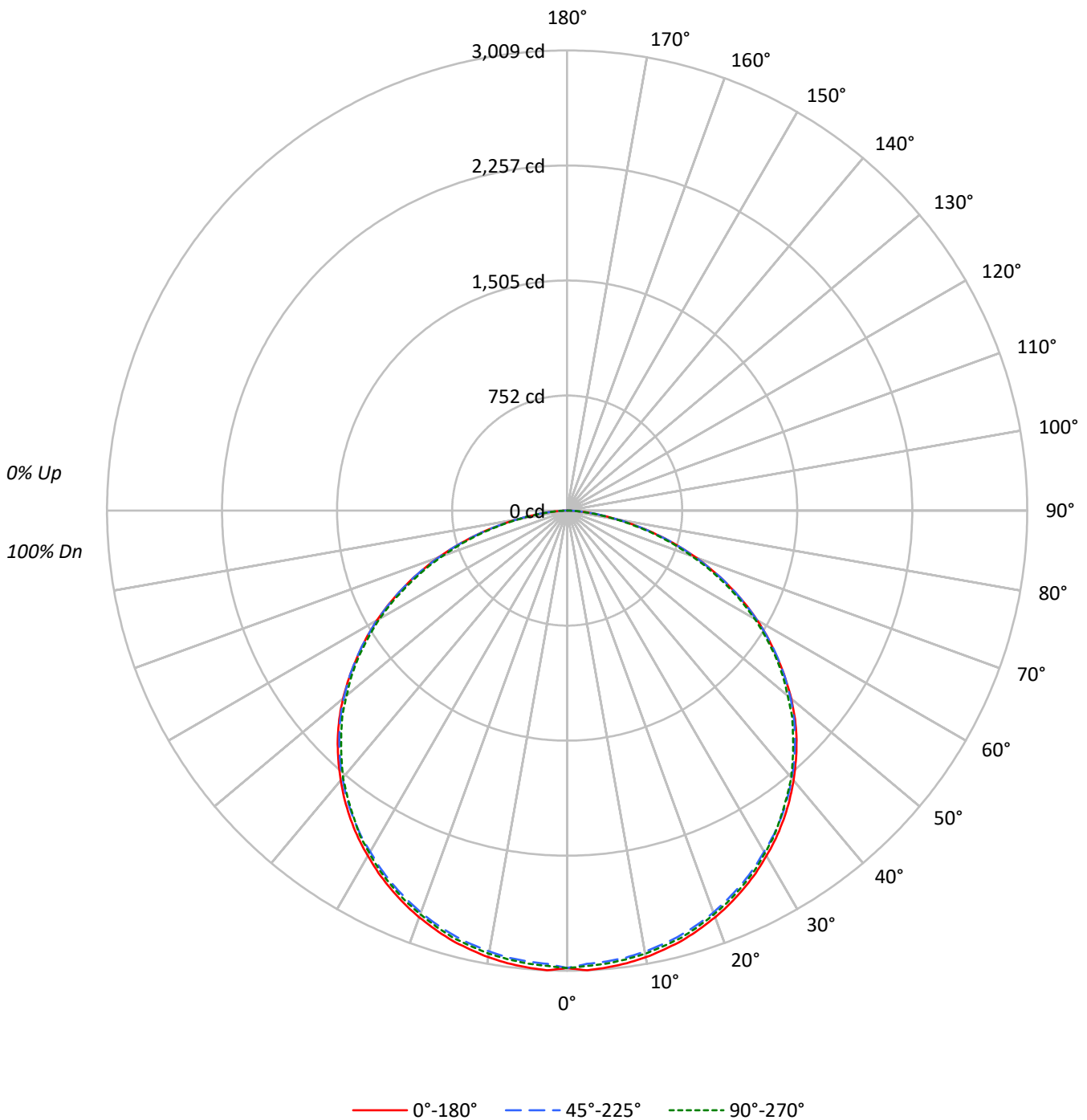
Input Watts (W): 62.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	193187	193187	193187
5°	193724	153502	142755
10°	193070	127690	113142
15°	192458	108832	93267
20°	191594	94209	78621
25°	190740	82399	67399
30°	189833	72500	58275
35°	189003	64195	50585
40°	187592	56722	44110
45°	186059	49890	38171
50°	183160	43481	32790
55°	178379	37237	27875
60°	172949	31165	23086
65°	164284	25126	18230
70°	152116	18983	13612
75°	131448	12977	9212
80°	100869	7247	4971
85°	60234	2619	1637



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.5	3.2
10°-20°	816.8	9.1
20°-30°	1251.7	14.0
30°-40°	1534.3	17.1
40°-50°	1625.4	18.2
50°-60°	1498.7	16.8
60°-70°	1151.7	12.9
70°-80°	638.4	7.1
80°-90°	146.8	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°	2351.9	26.3
0°-40°	3886.3	43.4
0°-60°	7010.4	78.4
0°-90°	8947.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8947.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2991	2991	2991	2991	2991	
5°	2999	2986	2960	2988	2973	285
15°	2911	2897	2874	2900	2890	821
25°	2729	2719	2697	2725	2710	1258
35°	2467	2455	2444	2452	2439	1543
45°	2122	2115	2107	2104	2090	1635
55°	1678	1691	1680	1674	1662	1501
65°	1171	1174	1172	1156	1143	1158
75°	609	610	607	597	588	644
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°	2991.3	2991.3	2991.3	2991.3	2991.3
2.5°	3009.0	2994.2	2966.7	2994.2	2980.4
5°	2999.1	2986.3	2959.8	2988.3	2972.6
7.5°	2985.4	2974.5	2948.0	2975.5	2959.8
10°	2965.7	2953.9	2928.3	2957.8	2942.1
12.5°	2939.1	2928.3	2903.7	2931.3	2917.5
15°	2910.6	2896.9	2874.2	2899.8	2890.0
17.5°	2871.3	2860.5	2837.9	2862.4	2851.6
20°	2830.0	2819.2	2796.6	2821.2	2809.4
22.5°	2782.8	2772.0	2748.4	2774.9	2763.1
25°	2728.7	2718.9	2697.3	2724.8	2710.0
27.5°	2671.7	2663.8	2640.2	2662.8	2654.0
30°	2606.8	2601.9	2576.3	2594.0	2586.1
32.5°	2540.9	2532.1	2514.4	2528.1	2520.3
35°	2467.2	2455.4	2443.6	2452.4	2438.6
37.5°	2388.5	2380.6	2367.8	2375.7	2360.0
40°	2302.9	2296.1	2286.2	2288.2	2279.3
42.5°	2214.4	2206.6	2198.7	2194.8	2184.9
45°	2122.0	2115.1	2107.3	2104.3	2089.6
47.5°	2021.7	2016.8	2011.9	2005.0	1994.2
50°	1913.5	1915.5	1906.7	1900.8	1882.1
52.5°	1797.5	1809.3	1796.5	1787.7	1776.9
55°	1678.5	1691.3	1680.5	1673.6	1661.8
57.5°	1560.5	1566.4	1559.5	1554.6	1538.9
60°	1435.6	1440.6	1435.6	1424.8	1417.0
62.5°	1306.8	1312.7	1302.9	1295.0	1284.2
65°	1171.1	1174.1	1172.1	1156.4	1142.6
67.5°	1034.5	1039.4	1033.5	1022.7	1008.9
70°	897.8	894.8	889.9	882.0	864.3
72.5°	753.2	753.2	752.2	737.5	728.6
75°	608.7	609.7	606.7	596.9	588.0
77.5°	464.1	474.9	467.1	457.2	447.4
80°	335.3	342.2	335.3	322.5	316.6
82.5°	214.4	224.2	218.3	205.5	203.5
85°	120.0	121.9	119.0	113.1	103.2
87.5°	45.2	47.2	48.2	39.3	34.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)