

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: P290081

Luminaire Tested: **8SSRK-RB-12-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290081  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-8)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-RB-12-L835-CD1-U  
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND BATWING LENS AND 80 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11220.3 lumens  
Efficiency: N/A  
Efficacy: 138.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.65 / 1.6  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

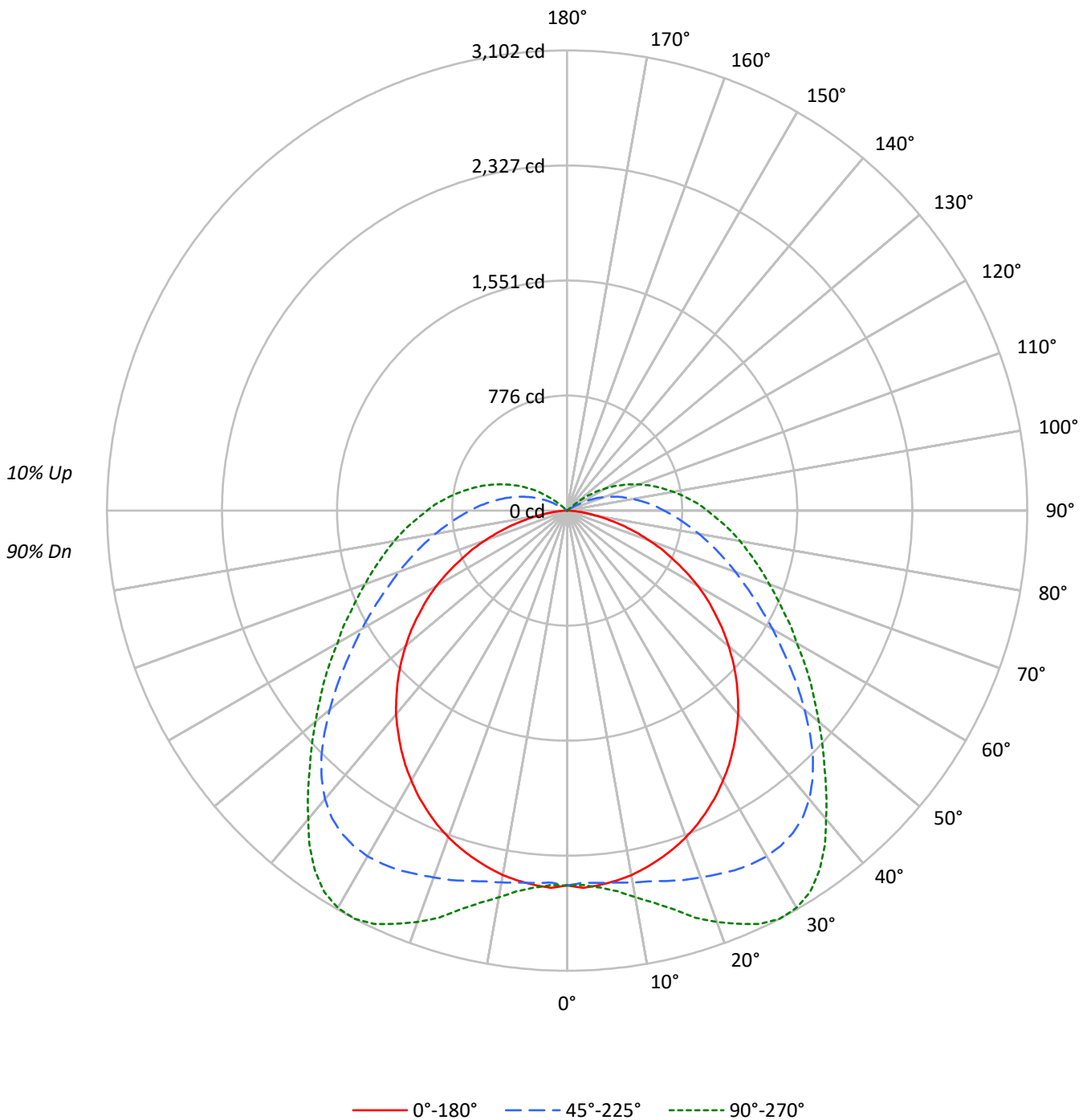
Input Watts (W): 80.8951  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	117	117	117	117	113	113	113	113	106	106	106		99	99	99		93	93	93	90
1	104	98	93	88	100	95	90	86	89	85	81		83	80	77		78	75	73	70
2	94	84	77	70	90	82	74	68	76	70	65		71	67	62		67	63	59	57
3	85	73	64	57	81	71	63	56	66	60	54		62	56	52		58	54	49	47
4	77	64	55	48	74	62	54	47	59	51	45		55	49	44		52	46	42	39
5	71	57	48	41	68	56	47	40	52	45	39		49	43	37		46	41	36	34
6	65	51	42	35	63	50	41	35	47	39	34		44	38	32		42	36	31	29
7	60	46	37	31	58	45	36	30	43	35	29		40	34	29		38	32	28	25
8	56	42	33	27	54	41	33	27	39	31	26		37	30	25		35	29	25	22
9	52	38	30	24	50	37	29	24	36	28	23		34	27	23		32	26	22	20
10	49	35	27	22	47	34	27	22	33	26	21		31	25	20		30	24	20	18

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

	0°	45°	90°
0°	81588	81588	81588
5°	81970	65373	61257
10°	81521	55597	50883
15°	80739	49052	44897
20°	79905	44439	41293
25°	78736	40978	38237
30°	77398	37989	34844
35°	75913	34970	30734
40°	74349	31609	26278
45°	72185	27840	22405
50°	69627	23924	19284
55°	66798	20389	16763
60°	63524	17442	14552
65°	58315	14941	12829
70°	52733	12931	11421
75°	44569	11243	10263
80°	33495	9796	9294
85°	18314	8518	8405



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.9	2.2
10°-20°	739.1	6.6
20°-30°	1230.5	11.0
30°-40°	1591.4	14.2
40°-50°	1680.8	15.0
50°-60°	1549.7	13.8
60°-70°	1302.3	11.6
70°-80°	1020.4	9.1
80°-90°	750.7	6.7
90°-100°	534.9	4.8
100°-110°	343.6	3.1
110°-120°	180.3	1.6
120°-130°	52.4	0.5
130°-140°	1.2	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°	2212.5	19.7
0°-40°	3803.9	33.9
0°-60°	7034.4	62.7
0°-90°	10107.7	90.1
90°-120°	1058.9	9.4
90°-150°	1112.6	9.9
90°-180°	1113.0	9.9
0°-180°	11220.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2527	2527	2527	2527	2527	
5°	2533	2532	2518	2551	2551	241
15°	2429	2476	2585	2739	2782	685
25°	2231	2356	2675	2981	3075	1028
35°	1954	2172	2653	2924	2963	1222
45°	1614	1901	2343	2444	2453	1243
55°	1222	1518	1833	1958	1999	1093
65°	797	1091	1388	1558	1608	794
75°	385	710	1046	1245	1310	409
85°	61	415	770	989	1060	80
90°	1	305	653	875	944	3
95°	4	220	550	767	835	3
105°	4	72	358	556	622	4
115°	3	4	171	346	406	3
125°	3	1	0	124	184	2
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°	2526.6	2526.6	2526.6	2526.6	2526.6
2.5°	2545.6	2534.8	2510.3	2532.0	2526.6
5°	2533.4	2532.0	2518.4	2551.1	2551.1
7.5°	2517.1	2522.5	2529.3	2583.7	2587.8
10°	2495.3	2511.6	2545.6	2628.6	2646.3
12.5°	2464.0	2493.9	2559.2	2679.0	2707.5
15°	2428.6	2476.2	2585.1	2738.8	2782.4
17.5°	2387.8	2450.4	2610.9	2812.3	2877.6
20°	2342.9	2424.5	2631.4	2879.0	2951.1
22.5°	2291.2	2393.3	2653.1	2933.4	3015.0
25°	2231.3	2356.5	2674.9	2981.0	3074.9
27.5°	2171.5	2318.4	2687.1	3011.0	3102.1
30°	2100.7	2276.2	2691.2	3015.0	3092.6
32.5°	2031.3	2230.0	2679.0	2986.5	3047.7
35°	1953.8	2171.5	2653.1	2923.9	2963.3
37.5°	1873.5	2108.9	2608.2	2827.3	2851.8
40°	1794.6	2050.4	2538.8	2704.8	2715.7
42.5°	1703.4	1975.6	2449.0	2575.6	2586.5
45°	1613.6	1900.7	2342.9	2443.6	2453.1
47.5°	1518.4	1815.0	2217.7	2311.6	2334.7
50°	1420.4	1721.1	2089.8	2189.2	2213.7
52.5°	1325.2	1624.5	1960.6	2073.5	2102.1
55°	1221.8	1518.4	1832.7	1957.9	1998.7
57.5°	1122.5	1413.6	1708.9	1847.7	1892.6
60°	1019.1	1306.2	1600.0	1745.6	1786.4
62.5°	910.2	1197.3	1488.5	1651.7	1703.4
65°	797.3	1091.2	1387.8	1557.9	1608.2
67.5°	698.0	989.1	1291.2	1470.8	1527.9
70°	590.5	891.2	1206.8	1393.2	1450.4
72.5°	485.7	800.0	1122.5	1318.4	1379.6
75°	385.0	710.2	1046.3	1244.9	1310.2
77.5°	287.1	627.2	971.5	1178.3	1243.6
80°	201.4	551.0	902.1	1114.3	1183.7
82.5°	125.2	483.0	834.0	1051.7	1122.5
85°	61.2	415.0	770.1	989.1	1059.9
87.5°	17.7	355.1	710.2	929.3	998.7
90°	1.4	304.8	653.1	874.9	944.2
92.5°	2.7	259.9	604.1	820.4	893.9
95°	4.1	220.4	549.7	767.4	835.4
97.5°	4.1	182.3	499.3	714.3	781.0
100°	4.1	145.6	450.4	658.5	726.5
102.5°	4.1	110.2	402.7	606.8	672.1
105°	4.1	72.1	357.8	556.5	621.8
107.5°	4.1	31.3	310.2	502.1	567.4
110°	4.1	6.8	264.0	451.7	515.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	4.1	4.1	220.4	398.6	462.6
115°	2.7	4.1	171.4	345.6	405.5
117.5°	2.7	2.7	117.0	293.9	355.1
120°	2.7	2.7	61.2	242.2	298.0
122.5°	2.7	1.4	12.2	185.0	246.3
125°	2.7	1.4	0.0	123.8	183.7
127.5°	2.7	1.4	0.0	63.9	125.2
130°	1.4	1.4	0.0	9.5	59.9
132.5°	1.4	1.4	0.0	0.0	2.7
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)