

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: P290083

Luminaire Tested: **8SSRK-RB-12-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290083  
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-L850-CD1-U  
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND BATWING LENS AND 80 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11410.6 lumens  
Efficiency: N/A  
Efficacy: 141.1 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

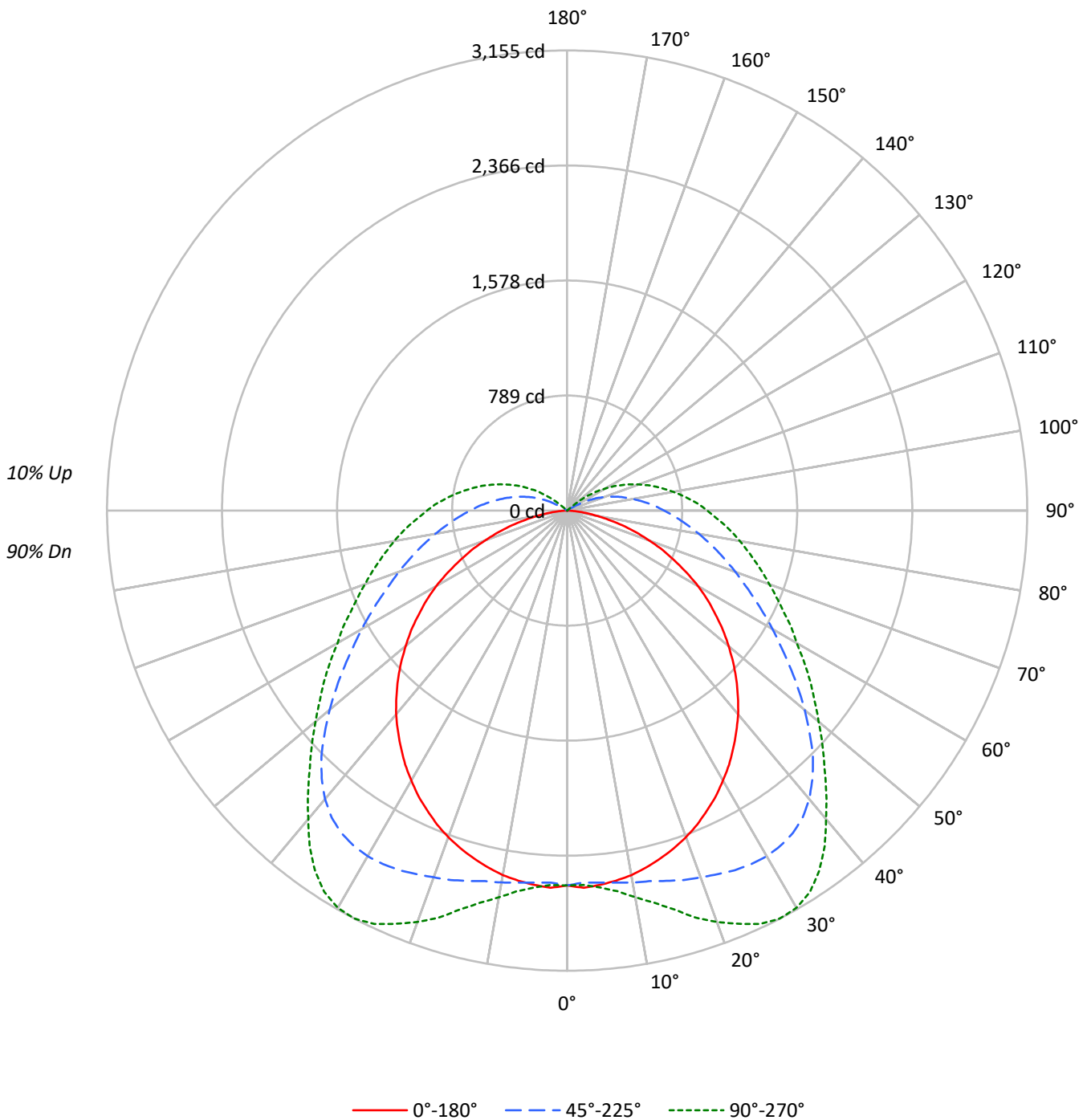
Input Watts (W): 80.8951  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	82970	82970	82970
5°	83362	66481	62294
10°	82902	56541	51746
15°	82109	49884	45659
20°	81259	45192	41993
25°	80073	41674	38885
30°	78713	38634	35435
35°	77199	35563	31256
40°	75608	32146	26724
45°	73410	28312	22785
50°	70809	24330	19610
55°	67930	20735	17047
60°	64603	17738	14799
65°	59302	15194	13047
70°	53626	13150	11615
75°	45333	11433	10437
80°	34060	9962	9451
85°	18643	8662	8548



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.1	2.2
10°-20°	751.7	6.6
20°-30°	1251.3	11.0
30°-40°	1618.4	14.2
40°-50°	1709.3	15.0
50°-60°	1576.0	13.8
60°-70°	1324.4	11.6
70°-80°	1037.7	9.1
80°-90°	763.4	6.7
90°-100°	544.0	4.8
100°-110°	349.5	3.1
110°-120°	183.4	1.6
120°-130°	53.3	0.5
130°-140°	1.3	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°	2250.1	19.7
0°-40°	3868.4	33.9
0°-60°	7153.7	62.7
0°-90°	10279.2	90.1
90°-120°	1076.9	9.4
90°-150°	1131.5	9.9
90°-180°	1131.0	9.9
0°-180°	11410.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2569	2569	2569	2569	2569	
5°	2576	2575	2561	2594	2594	245
15°	2470	2518	2629	2785	2830	697
25°	2269	2396	2720	3032	3127	1046
35°	1987	2208	2698	2974	3014	1243
45°	1641	1933	2383	2485	2495	1265
55°	1242	1544	1864	1991	2033	1112
65°	811	1110	1411	1584	1636	807
75°	392	722	1064	1266	1332	416
85°	62	422	783	1006	1078	82
90°	1	310	664	890	960	3
95°	4	224	559	780	850	3
105°	4	73	364	566	632	4
115°	3	4	174	351	412	3
125°	3	1	0	126	187	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°	2569.4	2569.4	2569.4	2569.4	2569.4
2.5°	2588.8	2577.7	2552.8	2575.0	2569.4
5°	2576.4	2575.0	2561.1	2594.3	2594.3
7.5°	2559.7	2565.3	2572.2	2627.5	2631.7
10°	2537.6	2554.2	2588.8	2673.2	2691.2
12.5°	2505.8	2536.2	2602.6	2724.4	2753.5
15°	2469.8	2518.2	2628.9	2785.3	2829.6
17.5°	2428.3	2491.9	2655.2	2860.0	2926.4
20°	2382.6	2465.7	2676.0	2927.8	3001.1
22.5°	2330.1	2433.8	2698.1	2983.1	3066.2
25°	2269.2	2396.5	2720.3	3031.6	3127.0
27.5°	2208.3	2357.7	2732.7	3062.0	3154.7
30°	2136.4	2314.8	2736.9	3066.2	3145.0
32.5°	2065.8	2267.8	2724.4	3037.1	3099.4
35°	1986.9	2208.3	2698.1	2973.5	3013.6
37.5°	1905.3	2144.7	2652.5	2875.2	2900.1
40°	1825.0	2085.2	2581.9	2750.7	2761.8
42.5°	1732.3	2009.1	2490.6	2619.2	2630.3
45°	1641.0	1933.0	2382.6	2485.0	2494.7
47.5°	1544.2	1845.8	2255.3	2350.8	2374.3
50°	1444.5	1750.3	2125.3	2226.3	2251.2
52.5°	1347.7	1652.1	1993.8	2108.7	2137.7
55°	1242.5	1544.2	1863.8	1991.1	2032.6
57.5°	1141.5	1437.6	1737.9	1879.0	1924.7
60°	1036.4	1328.3	1627.2	1775.2	1816.7
62.5°	925.7	1217.6	1513.7	1679.7	1732.3
65°	810.8	1109.7	1411.3	1584.3	1635.5
67.5°	709.8	1005.9	1313.1	1495.7	1553.8
70°	600.5	906.3	1227.3	1416.9	1475.0
72.5°	494.0	813.6	1141.5	1340.8	1403.0
75°	391.6	722.3	1064.0	1266.0	1332.5
77.5°	291.9	637.9	987.9	1198.2	1264.7
80°	204.8	560.4	917.4	1133.2	1203.8
82.5°	127.3	491.2	848.2	1069.6	1141.5
85°	62.3	422.0	783.1	1005.9	1077.9
87.5°	18.0	361.1	722.3	945.0	1015.6
90°	1.4	309.9	664.2	889.7	960.3
92.5°	2.8	264.3	614.3	834.3	909.1
95°	4.2	224.2	559.0	780.4	849.6
97.5°	4.2	185.4	507.8	726.4	794.2
100°	4.2	148.1	458.0	669.7	738.9
102.5°	4.2	112.1	409.6	617.1	683.5
105°	4.2	73.3	363.9	565.9	632.3
107.5°	4.2	31.8	315.5	510.6	577.0
110°	4.2	6.9	268.4	459.4	524.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	4.2	4.2	224.2	405.4	470.4
115°	2.8	4.2	174.3	351.4	412.3
117.5°	2.8	2.8	119.0	298.9	361.1
120°	2.8	2.8	62.3	246.3	303.0
122.5°	2.8	1.4	12.5	188.2	250.4
125°	2.8	1.4	0.0	125.9	186.8
127.5°	2.8	1.4	0.0	65.0	127.3
130°	1.4	1.4	0.0	9.7	60.9
132.5°	1.4	1.4	0.0	0.0	2.8
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)