

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: P289643

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289643  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-TB-12-L850-CD1-U  
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 80 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

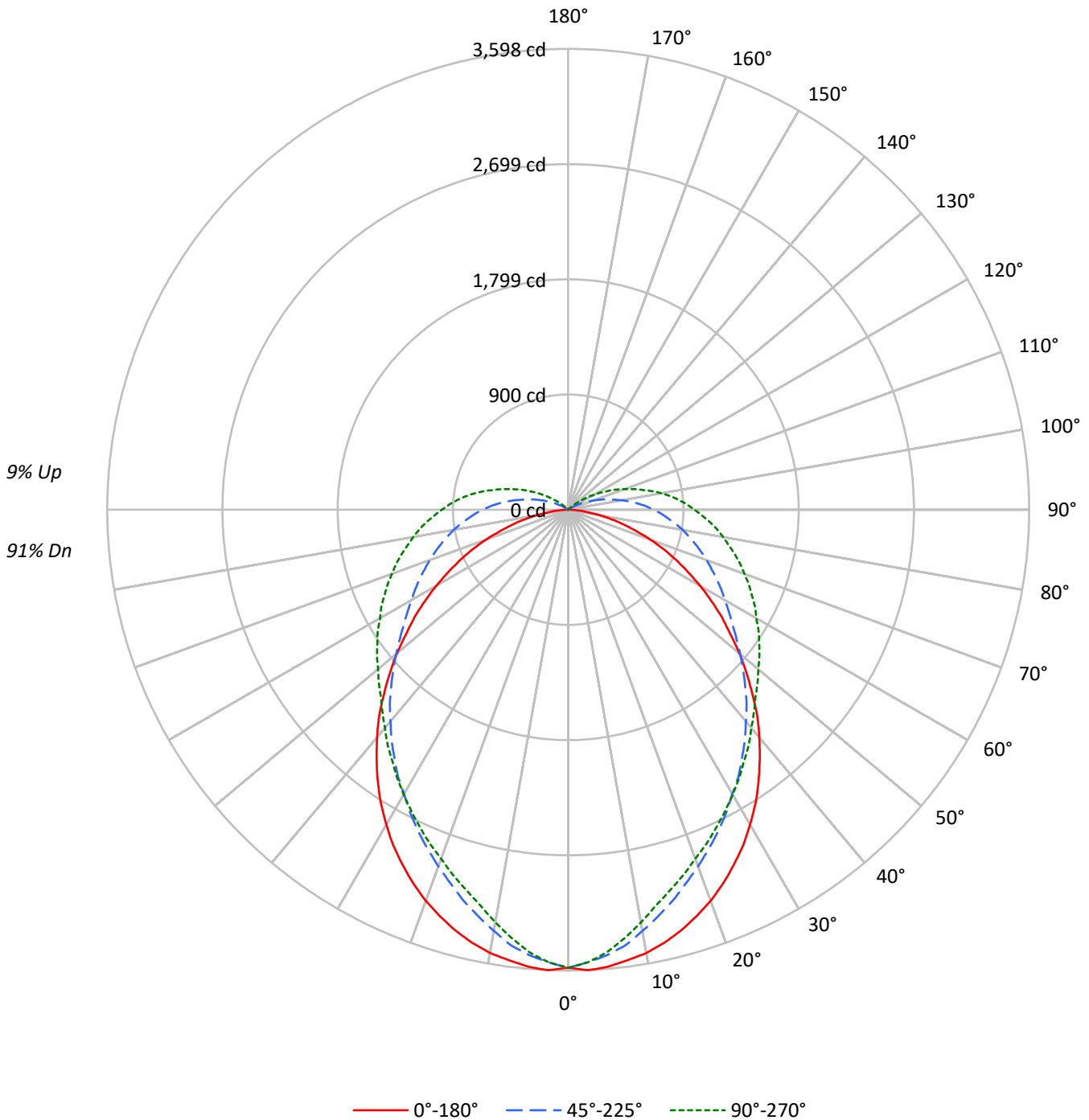
Lumens per Lamp: N/A  
Luminaire Lumens: 11128.3 lumens  
Efficiency: N/A  
Efficacy: 137.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.08 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 80.8951  
Input Voltage (V): NR  
Input 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	91				
1	104	98	93	89	100	95	90	86	89	85	82	84	80	78	78	76	74	71				
2	94	85	77	71	90	82	75	69	77	71	66	72	67	63	68	64	60	58				
3	85	74	65	58	82	72	64	57	67	60	55	63	58	53	60	55	51	48				
4	78	65	56	49	75	63	55	48	60	52	47	56	50	45	53	48	43	41				
5	72	58	49	42	69	57	48	41	53	46	40	50	44	39	48	42	38	35				
6	66	53	43	37	64	51	42	36	48	41	35	46	39	34	43	38	33	31				
7	61	48	39	32	59	46	38	32	44	37	31	42	35	30	40	34	29	27				
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	31	26	24				
9	54	40	32	26	52	39	31	26	37	30	25	35	29	24	34	28	24	22				
10	50	37	29	24	48	36	28	23	34	28	23	33	27	22	31	26	22	20				

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

	0°	45°	90°
0°	115474	115474	115474
5°	115886	90632	83297
10°	114801	72936	62912
15°	113080	59948	49615
20°	110822	50025	40581
25°	107904	42446	34034
30°	104574	36169	28934
35°	100651	31175	24823
40°	96124	26855	21524
45°	90946	23220	18877
50°	85578	20050	16875
55°	80050	17418	15256
60°	74065	15409	13808
65°	67962	13762	12624
70°	60851	12309	11530
75°	52152	11013	10542
80°	42143	9846	9639
85°	28638	8658	8798



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.1	3.0
10°-20°	902.3	8.1
20°-30°	1305.5	11.7
30°-40°	1518.6	13.6
40°-50°	1545.8	13.9
50°-60°	1438.3	12.9
60°-70°	1252.5	11.3
70°-80°	1019.6	9.2
80°-90°	772.3	6.9
90°-100°	535.6	4.8
100°-110°	314.7	2.8
110°-120°	147.6	1.3
120°-130°	42.0	0.4
130°-140°	2.3	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°	2538.9	22.8
0°-40°	4057.6	36.5
0°-60°	7041.7	63.3
0°-90°	10086.1	90.6
90°-120°	997.9	9.0
90°-150°	1042.2	9.4
90°-180°	1042.0	9.4
0°-180°	11128.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3576	3576	3576	3576	3576	
5°	3582	3554	3492	3492	3469	339
15°	3401	3311	3159	3103	3075	958
25°	3058	2923	2771	2748	2737	1408
35°	2590	2455	2365	2388	2393	1618
45°	2033	1954	1954	2033	2067	1569
55°	1464	1459	1566	1751	1819	1307
65°	929	1008	1278	1504	1582	921
75°	450	659	1025	1262	1346	481
85°	96	411	783	1031	1109	110
90°	0	298	664	907	986	5
95°	0	192	546	788	867	0
105°	0	45	310	524	597	0
115°	0	0	124	287	349	0
125°	0	0	6	96	141	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°	6	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: 8SSRK-TB-12-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3576.0	3576.0	3576.0	3576.0	3576.0
2.5°	3598.5	3581.6	3536.6	3553.5	3536.6
5°	3581.6	3553.5	3491.5	3491.5	3469.0
7.5°	3547.8	3514.0	3429.6	3401.4	3373.3
10°	3514.0	3463.4	3339.5	3305.7	3271.9
12.5°	3463.4	3390.2	3249.4	3198.7	3164.9
15°	3401.4	3311.3	3159.3	3102.9	3074.8
17.5°	3328.2	3226.8	3057.9	3012.8	2990.3
20°	3249.4	3131.1	2962.2	2922.7	2900.2
22.5°	3159.3	3024.1	2866.4	2838.3	2821.4
25°	3057.9	2922.7	2770.7	2748.2	2736.9
27.5°	2956.5	2810.1	2669.3	2658.1	2652.4
30°	2838.3	2697.5	2562.3	2568.0	2568.0
32.5°	2720.0	2579.2	2472.2	2483.5	2483.5
35°	2590.5	2455.3	2365.2	2387.7	2393.4
37.5°	2455.3	2337.1	2263.9	2297.6	2314.5
40°	2320.2	2213.2	2156.9	2207.5	2224.4
42.5°	2185.0	2083.6	2061.1	2123.1	2145.6
45°	2033.0	1954.1	1954.1	2033.0	2066.8
47.5°	1886.5	1835.9	1852.8	1954.1	2004.8
50°	1745.8	1706.3	1751.4	1880.9	1937.2
52.5°	1593.7	1582.4	1655.7	1813.3	1880.9
55°	1464.2	1458.6	1565.6	1751.4	1819.0
57.5°	1323.4	1340.3	1486.7	1689.4	1762.7
60°	1188.2	1222.0	1413.5	1627.5	1695.1
62.5°	1053.1	1120.7	1345.9	1565.6	1644.4
65°	929.2	1008.0	1278.3	1503.6	1582.4
67.5°	805.3	906.7	1210.8	1447.3	1526.1
70°	681.4	816.6	1148.8	1385.3	1464.2
72.5°	557.5	737.7	1086.9	1323.4	1407.9
75°	450.5	658.9	1024.9	1261.5	1345.9
77.5°	349.2	596.9	963.0	1210.8	1284.0
80°	253.4	529.4	906.7	1148.8	1227.7
82.5°	163.3	473.0	844.7	1086.9	1171.3
85°	95.7	411.1	782.8	1030.6	1109.4
87.5°	39.4	349.2	726.5	968.6	1047.5
90°	0.0	298.5	664.5	906.7	985.5
92.5°	0.0	247.8	608.2	850.4	929.2
95°	0.0	191.5	546.3	788.4	867.2
97.5°	0.0	146.4	484.3	726.5	805.3
100°	0.0	112.6	422.4	653.3	737.7
102.5°	0.0	78.8	360.4	585.7	670.1
105°	0.0	45.1	309.7	523.7	596.9
107.5°	0.0	22.5	259.0	461.8	535.0
110°	0.0	5.6	208.4	399.8	467.4



TEST NUMBER: P289643

CATALOG NUMBER: 8SSRK-TB-12-L850-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	163.3	343.5	411.1
115°	0.0	0.0	123.9	287.2	349.2
117.5°	0.0	0.0	84.5	236.5	292.8
120°	0.0	0.0	50.7	185.8	236.5
122.5°	0.0	0.0	22.5	140.8	185.8
125°	0.0	0.0	5.6	95.7	140.8
127.5°	0.0	0.0	0.0	56.3	95.7
130°	0.0	0.0	0.0	28.2	56.3
132.5°	0.0	0.0	0.0	5.6	22.5
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°	5.6	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)