

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: P289817

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289817  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-6)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-TS-12-L835-CD1-U  
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 80 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

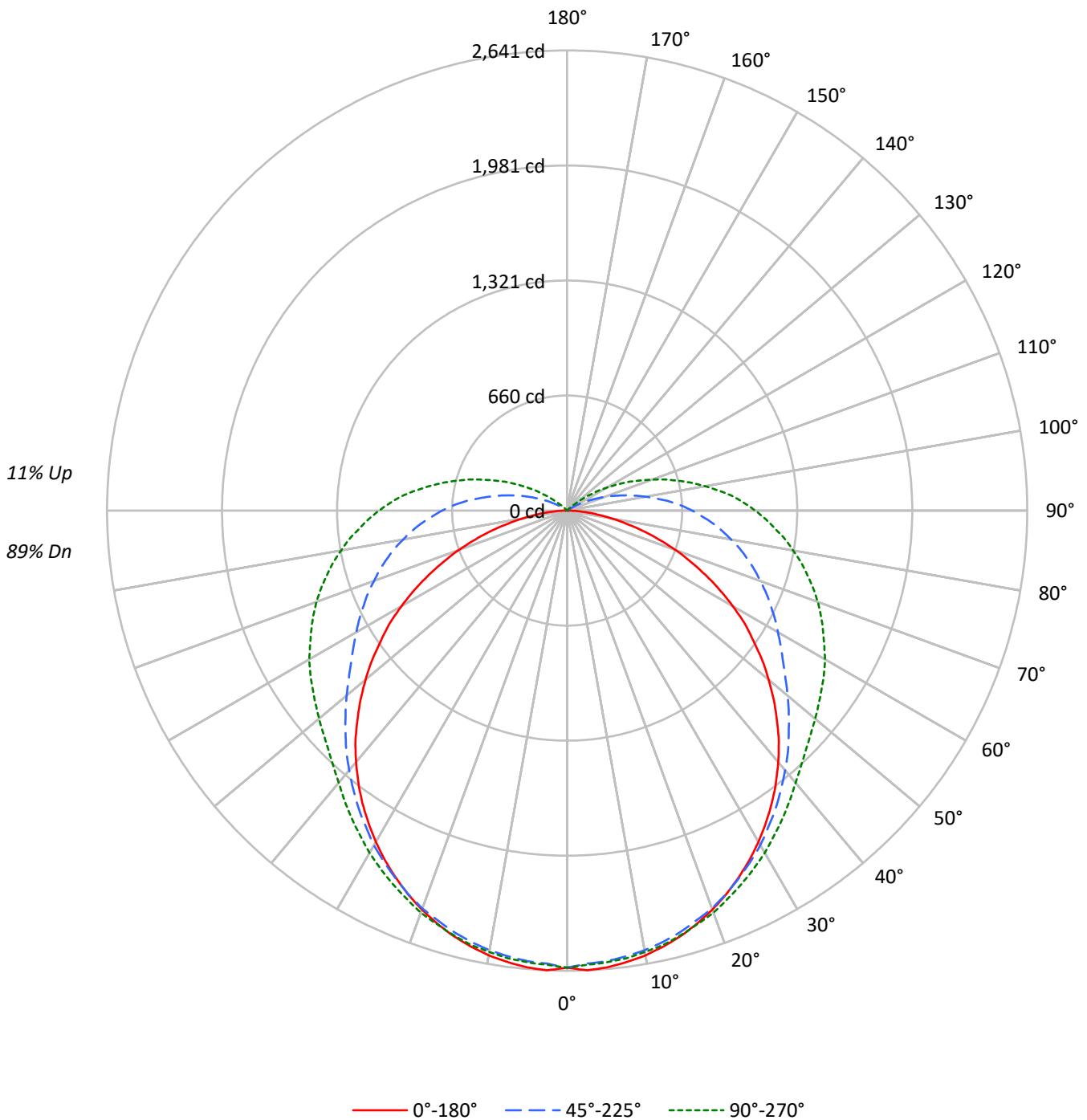
Lumens per Lamp: N/A  
Luminaire Lumens: 10421.6 lumens  
Efficiency: N/A  
Efficacy: 128.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 80.8951  
Input Voltage (V): NR  
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



TEST NUMBER: P289817

CATALOG NUMBER: 8SSRK-TS-12-L835-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P289817

CATALOG NUMBER: 8SSRK-TS-12-L835-CD1-U

**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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89				
1	103	97	91	87	99	94	89	84	87	83	79	81	78	75	76	73	71	68				
2	93	83	75	68	89	80	73	67	75	68	63	70	65	60	65	61	57	54				
3	84	72	63	56	80	69	61	54	65	58	52	61	55	50	57	52	47	45				
4	76	63	54	46	73	61	52	45	57	50	44	53	47	42	50	45	40	37				
5	70	56	47	39	67	54	45	39	51	43	37	48	41	36	45	39	34	32				
6	65	50	41	34	62	49	40	34	46	38	32	43	36	31	41	35	30	28				
7	60	46	36	30	57	44	36	29	42	34	28	39	33	28	37	31	27	24				
8	56	41	33	27	53	40	32	26	38	31	25	36	29	25	34	28	24	22				
9	52	38	29	24	50	37	29	23	35	28	23	33	27	22	31	26	21	19				
10	49	35	27	21	47	34	26	21	32	25	21	31	24	20	29	23	19	17				

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

	0°	45°	90°
0°	84707	84707	84707
5°	85138	67387	62498
10°	84676	55955	49470
15°	83997	47529	40703
20°	83108	41038	34363
25°	82049	35684	29422
30°	80909	31305	25555
35°	79612	27509	22366
40°	78069	24224	19735
45°	76202	21373	17708
50°	74029	18908	16190
55°	71407	16832	14960
60°	68442	15232	13921
65°	64188	13872	12927
70°	59172	12639	12053
75°	52129	11506	11179
80°	43224	10387	10340
85°	31750	9285	9506



TEST NUMBER: P289817

CATALOG NUMBER: 8SSRK-TS-12-L835-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.2	2.4
10°-20°	711.0	6.8
20°-30°	1079.7	10.4
30°-40°	1312.5	12.6
40°-50°	1400.7	13.4
50°-60°	1373.7	13.2
60°-70°	1255.1	12.0
70°-80°	1065.2	10.2
80°-90°	828.9	8.0
90°-100°	584.4	5.6
100°-110°	347.4	3.3
110°-120°	164.4	1.6
120°-130°	47.7	0.5
130°-140°	2.7	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°	2038.9	19.6
0°-40°	3351.4	32.2
0°-60°	6125.9	58.8
0°-90°	9275.0	89.0
90°-120°	1096.3	10.5
90°-150°	1146.6	11.0
90°-180°	1147.0	11.0
0°-180°	10421.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2623	2623	2623	2623	2623	
5°	2631	2622	2596	2611	2603	250
15°	2527	2521	2505	2527	2522	713
25°	2325	2327	2329	2366	2366	1072
35°	2049	2060	2087	2139	2156	1281
45°	1703	1732	1799	1894	1939	1314
55°	1306	1362	1513	1710	1784	1170
65°	878	990	1288	1535	1620	869
75°	450	683	1071	1336	1427	477
85°	106	435	840	1106	1199	119
90°	8	322	717	986	1079	10
95°	8	216	592	854	954	7
105°	7	58	337	573	660	7
115°	5	5	137	314	389	6
125°	4	3	7	105	154	4
135°	0	0	0	0	0	1
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



TEST NUMBER: P289817

CATALOG NUMBER: 8SSRK-TS-12-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2623.2	2623.2	2623.2	2623.2	2623.2
2.5°	2640.9	2631.3	2602.8	2617.7	2609.6
5°	2631.3	2621.8	2596.0	2610.9	2602.8
7.5°	2613.7	2606.8	2581.0	2597.3	2591.9
10°	2591.9	2585.1	2562.0	2581.0	2572.8
12.5°	2562.0	2555.1	2536.1	2555.1	2552.4
15°	2526.6	2521.1	2504.8	2526.6	2522.5
17.5°	2484.4	2480.3	2466.7	2493.9	2488.5
20°	2436.8	2434.1	2430.0	2454.5	2455.8
22.5°	2385.1	2385.1	2382.4	2409.6	2410.9
25°	2325.2	2326.6	2329.3	2366.0	2366.0
27.5°	2264.0	2268.1	2274.9	2310.2	2318.4
30°	2196.0	2202.8	2217.7	2255.8	2268.1
32.5°	2123.8	2134.7	2151.1	2198.7	2210.9
35°	2049.0	2059.9	2087.1	2138.8	2156.5
37.5°	1968.7	1981.0	2016.4	2074.9	2098.0
40°	1884.4	1898.0	1945.6	2019.1	2039.5
42.5°	1798.7	1817.7	1876.2	1955.1	1986.4
45°	1703.4	1732.0	1798.7	1893.9	1938.8
47.5°	1608.2	1642.2	1725.2	1842.2	1896.6
50°	1510.2	1548.3	1651.7	1796.0	1858.5
52.5°	1412.3	1454.4	1579.6	1752.4	1820.4
55°	1306.1	1361.9	1513.0	1710.2	1783.7
57.5°	1208.2	1268.0	1453.1	1668.1	1748.3
60°	1098.0	1174.2	1397.3	1624.5	1708.9
62.5°	989.1	1080.3	1344.2	1579.6	1662.6
65°	877.6	990.5	1288.5	1534.7	1620.4
67.5°	767.4	899.3	1236.8	1488.5	1576.9
70°	662.6	820.4	1179.6	1440.8	1530.6
72.5°	552.4	751.0	1126.6	1390.5	1480.3
75°	450.3	683.0	1070.8	1336.1	1427.2
77.5°	346.9	619.1	1016.3	1281.7	1375.5
80°	259.9	559.2	956.5	1224.5	1317.0
82.5°	176.9	499.3	898.0	1166.0	1262.6
85°	106.1	435.4	839.5	1106.1	1198.7
87.5°	47.6	379.6	775.5	1044.9	1141.5
90°	8.2	322.5	717.0	986.4	1078.9
92.5°	9.5	270.8	657.2	923.8	1016.3
95°	8.2	216.3	591.8	854.4	953.8
97.5°	8.2	170.1	522.5	786.4	877.6
100°	6.8	126.5	455.8	714.3	804.1
102.5°	6.8	89.8	395.9	643.5	733.3
105°	6.8	58.5	337.4	572.8	659.9
107.5°	6.8	32.7	280.3	504.8	593.2
110°	6.8	12.2	228.6	443.5	517.0



TEST NUMBER: P289817

CATALOG NUMBER: 8SSRK-TS-12-L835-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	5.4	5.4	178.2	375.5	451.7
115°	5.4	5.4	137.4	314.3	389.1
117.5°	5.4	4.1	93.9	257.1	325.2
120°	5.4	4.1	58.5	205.4	264.0
122.5°	4.1	2.7	28.6	152.4	210.9
125°	4.1	2.7	6.8	104.8	153.7
127.5°	4.1	1.4	0.0	62.6	106.1
130°	2.7	1.4	0.0	29.9	62.6
132.5°	2.7	1.4	0.0	5.4	27.2
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)