

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: P289809

Luminaire Tested: **8SSRK-TS-10-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289809
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-10-L835-CD1-U
Description: 10000 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: 9385.1 lumens
Efficiency: N/A
Efficacy: 130.5 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

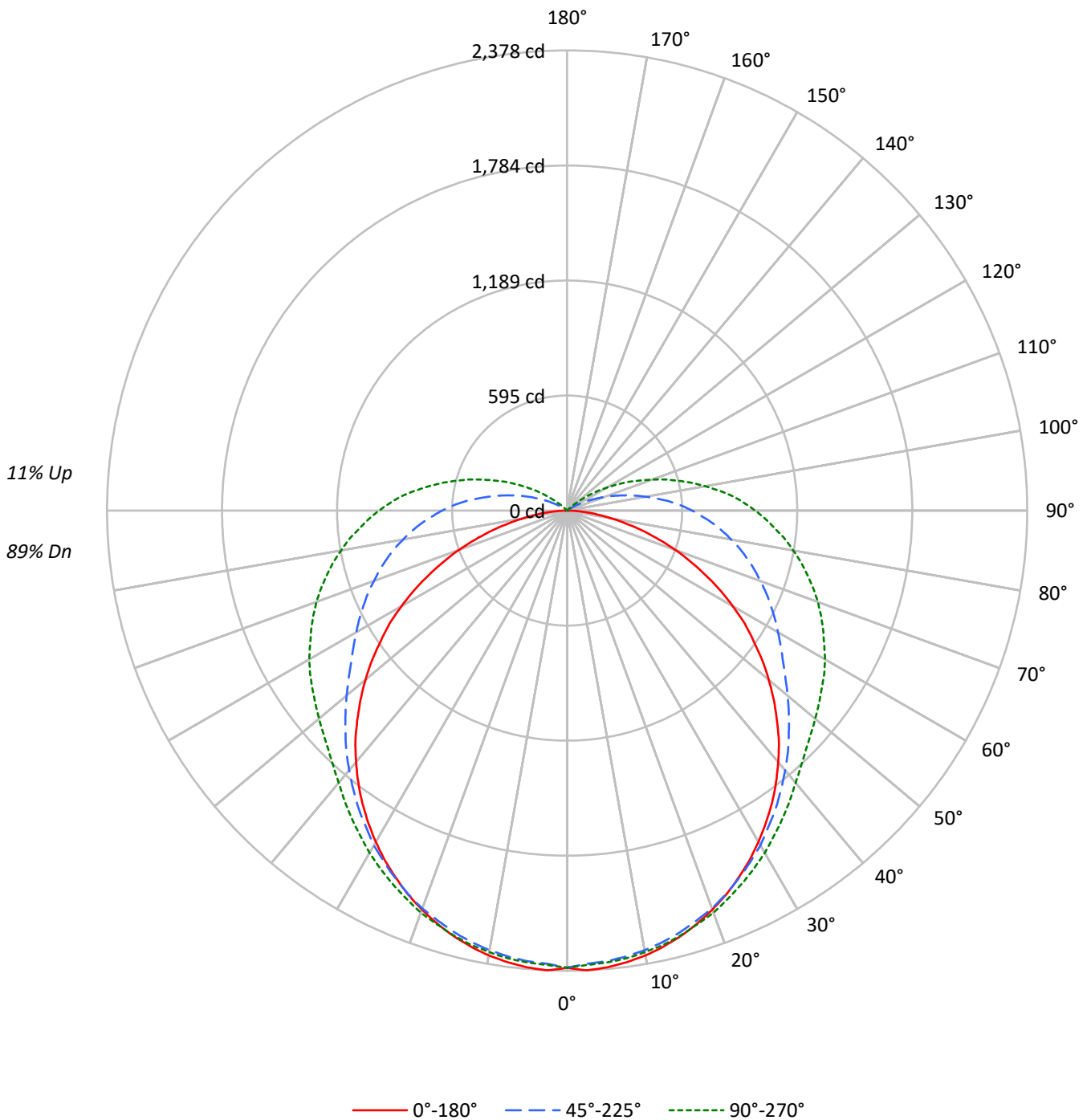
Input Watts (W): 71.9151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	76282	76282	76282
5°	76670	60685	56281
10°	76254	50388	44549
15°	75642	42802	36655
20°	74841	36956	30946
25°	73887	32134	26496
30°	72859	28191	23013
35°	71693	24773	20142
40°	70306	21815	17771
45°	68624	19248	15947
50°	66667	17027	14580
55°	64305	15158	13472
60°	61636	13717	12536
65°	57803	12492	11642
70°	53287	11382	10854
75°	46954	10362	10068
80°	38916	9353	9312
85°	28608	8362	8560



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.5	2.4
10°-20°	640.3	6.8
20°-30°	972.3	10.4
30°-40°	1181.9	12.6
40°-50°	1261.4	13.4
50°-60°	1237.1	13.2
60°-70°	1130.2	12.0
70°-80°	959.2	10.2
80°-90°	746.5	8.0
90°-100°	526.3	5.6
100°-110°	312.9	3.3
110°-120°	148.1	1.6
120°-130°	42.9	0.5
130°-140°	2.5	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°	1836.1	19.6
0°-40°	3018.1	32.2
0°-60°	5516.6	58.8
0°-90°	8352.5	89.0
90°-120°	987.2	10.5
90°-150°	1032.6	11.0
90°-180°	1033.0	11.0
0°-180°	9385.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2362	2362	2362	2362	2362	
5°	2370	2361	2338	2351	2344	225
15°	2275	2270	2256	2275	2272	642
25°	2094	2095	2098	2131	2131	965
35°	1845	1855	1880	1926	1942	1154
45°	1534	1560	1620	1706	1746	1183
55°	1176	1226	1362	1540	1606	1053
65°	790	892	1160	1382	1459	783
75°	406	615	964	1203	1285	430
85°	96	392	756	996	1079	107
90°	7	290	646	888	972	9
95°	7	195	533	770	859	6
105°	6	53	304	516	594	6
115°	5	5	124	283	350	5
125°	4	2	6	94	138	3
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2362.3	2362.3	2362.3	2362.3	2362.3
2.5°	2378.2	2369.6	2343.9	2357.4	2350.0
5°	2369.6	2361.0	2337.8	2351.2	2343.9
7.5°	2353.7	2347.6	2324.3	2339.0	2334.1
10°	2334.1	2328.0	2307.1	2324.3	2316.9
12.5°	2307.1	2301.0	2283.8	2301.0	2298.5
15°	2275.3	2270.4	2255.7	2275.3	2271.6
17.5°	2237.3	2233.6	2221.4	2245.9	2241.0
20°	2194.4	2192.0	2188.3	2210.3	2211.6
22.5°	2147.8	2147.8	2145.4	2169.9	2171.1
25°	2093.9	2095.2	2097.6	2130.7	2130.7
27.5°	2038.8	2042.5	2048.6	2080.5	2087.8
30°	1977.5	1983.7	1997.1	2031.4	2042.5
32.5°	1912.6	1922.4	1937.1	1980.0	1991.0
35°	1845.2	1855.0	1879.5	1926.1	1942.0
37.5°	1772.9	1783.9	1815.8	1868.5	1889.3
40°	1697.0	1709.2	1752.1	1818.3	1836.6
42.5°	1619.8	1636.9	1689.6	1760.7	1788.8
45°	1534.0	1559.7	1619.8	1705.5	1746.0
47.5°	1448.2	1478.9	1553.6	1659.0	1708.0
50°	1360.0	1394.3	1487.4	1617.3	1673.7
52.5°	1271.8	1309.8	1422.5	1578.1	1639.4
55°	1176.2	1226.5	1362.5	1540.1	1606.3
57.5°	1088.0	1141.9	1308.6	1502.1	1574.4
60°	988.8	1057.4	1258.3	1462.9	1538.9
62.5°	890.7	972.8	1210.5	1422.5	1497.2
65°	790.3	892.0	1160.3	1382.1	1459.3
67.5°	691.0	809.9	1113.7	1340.4	1420.1
70°	596.7	738.8	1062.3	1297.5	1378.4
72.5°	497.4	676.3	1014.5	1252.2	1333.1
75°	405.6	615.1	964.3	1203.2	1285.3
77.5°	312.4	557.5	915.3	1154.2	1238.7
80°	234.0	503.6	861.3	1102.7	1186.0
82.5°	159.3	449.7	808.7	1050.0	1137.0
85°	95.6	392.1	756.0	996.1	1079.4
87.5°	42.9	341.8	698.4	941.0	1028.0
90°	7.4	290.4	645.7	888.3	971.6
92.5°	8.6	243.8	591.8	831.9	915.3
95°	7.4	194.8	533.0	769.5	858.9
97.5°	7.4	153.2	470.5	708.2	790.3
100°	6.1	113.9	410.5	643.3	724.1
102.5°	6.1	80.9	356.5	579.5	660.4
105°	6.1	52.7	303.9	515.8	594.2
107.5°	6.1	29.4	252.4	454.6	534.2
110°	6.1	11.0	205.8	399.4	465.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.9	4.9	160.5	338.2	406.8
115°	4.9	4.9	123.7	283.0	350.4
117.5°	4.9	3.7	84.5	231.6	292.8
120°	4.9	3.7	52.7	185.0	237.7
122.5°	3.7	2.5	25.7	137.2	189.9
125°	3.7	2.5	6.1	94.3	138.5
127.5°	3.7	1.2	0.0	56.4	95.6
130°	2.5	1.2	0.0	27.0	56.4
132.5°	2.5	1.2	0.0	4.9	24.5
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°	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)