

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: P289985

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289985
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-LW-10-L835-CD1-U
Description: 10000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9268.7 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

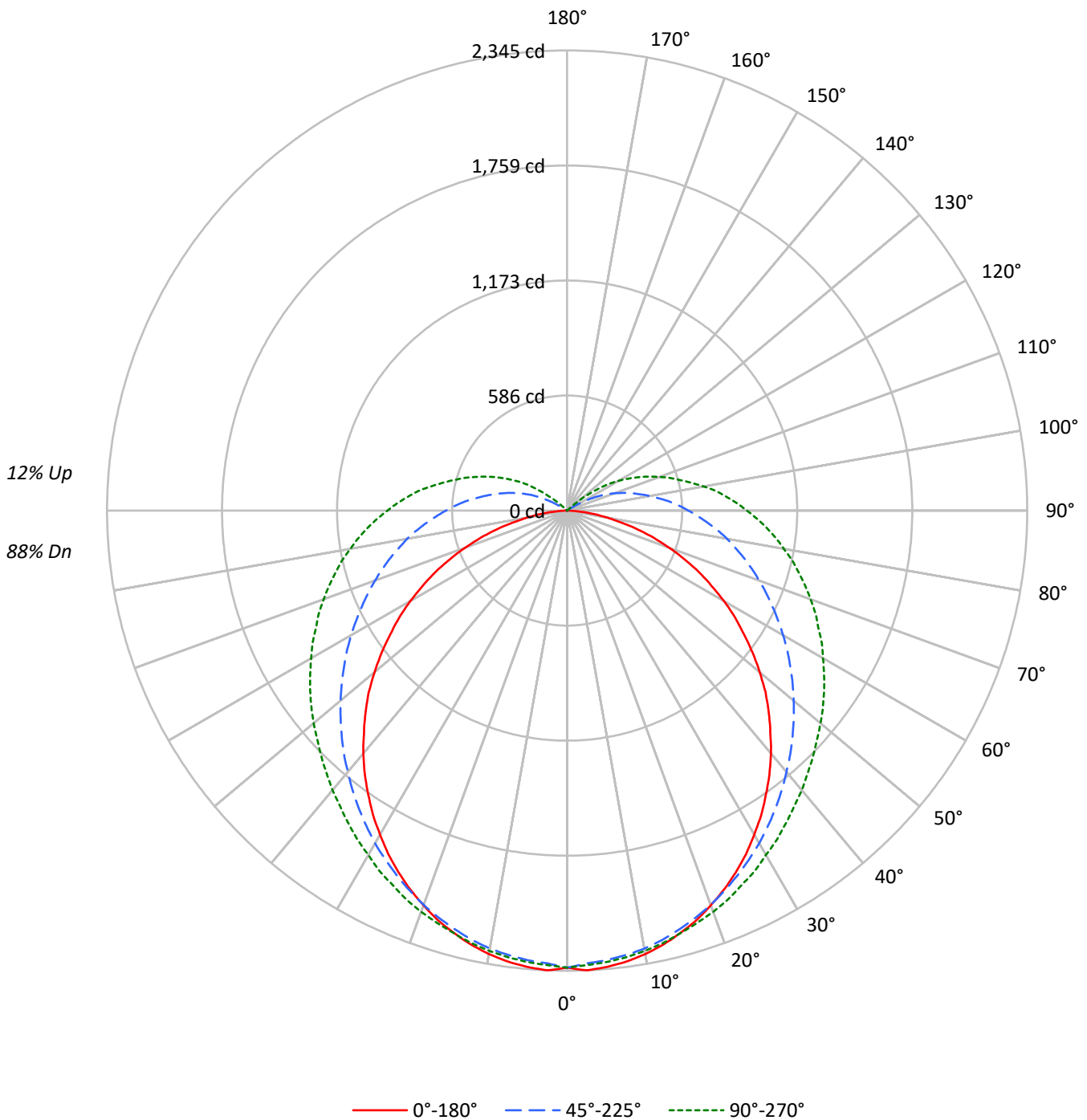
Input Watts (W): 71.9151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88				
1	103	97	92	87	99	94	89	84	87	83	79	81	78	75	75	73	71	67				
2	93	83	75	68	89	80	73	67	74	68	63	69	64	60	65	61	57	54				
3	84	72	63	56	80	70	61	54	65	58	52	60	54	50	56	51	47	44				
4	76	63	54	47	73	61	52	46	57	50	44	53	47	42	50	44	40	37				
5	70	56	47	40	67	54	46	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	40	35	30	28				
7	60	46	36	30	57	44	36	30	42	34	28	39	32	27	37	31	26	24				
8	55	41	33	27	53	40	32	26	38	31	25	36	29	24	34	28	24	21				
9	52	38	30	24	50	37	29	23	35	28	23	33	27	22	31	25	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°	75213	75213	75213
5°	75522	59698	55458
10°	74974	49506	43821
15°	74093	41918	35983
20°	73002	36108	30448
25°	71770	31440	26176
30°	70243	27639	22834
35°	68647	24403	20168
40°	66954	21647	17997
45°	65005	19306	16182
50°	62765	17253	14686
55°	60155	15444	13411
60°	57509	13851	12266
65°	54131	12426	11270
70°	49456	11160	10391
75°	43261	10019	9569
80°	34443	8995	8802
85°	22354	7955	8104



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.0	2.4
10°-20°	627.8	6.8
20°-30°	952.0	10.3
30°-40°	1161.9	12.5
40°-50°	1251.3	13.5
50°-60°	1229.0	13.3
60°-70°	1110.5	12.0
70°-80°	924.6	10.0
80°-90°	709.1	7.7
90°-100°	513.4	5.5
100°-110°	331.7	3.6
110°-120°	178.8	1.9
120°-130°	56.6	0.6
130°-140°	2.1	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°	1799.8	19.4
0°-40°	2961.7	32.0
0°-60°	5442.1	58.7
0°-90°	8186.2	88.3
90°-120°	1023.8	11.0
90°-150°	1082.5	11.7
90°-180°	1083.0	11.7
0°-180°	9268.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2329	2329	2329	2329	2329	
5°	2334	2326	2300	2317	2310	222
15°	2229	2224	2209	2234	2230	629
25°	2034	2036	2052	2096	2105	937
35°	1767	1790	1851	1925	1944	1105
45°	1453	1508	1625	1731	1772	1120
55°	1100	1209	1388	1543	1599	986
65°	740	901	1154	1348	1413	730
75°	374	620	932	1148	1222	396
85°	75	380	719	943	1022	90
90°	2	286	618	839	915	4
95°	5	207	523	741	814	4
105°	5	74	341	533	599	5
115°	4	4	172	339	403	4
125°	2	1	1	136	194	2
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: P289985

CATALOG NUMBER: 8SSRK-LW-10-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2329.2	2329.2	2329.2	2329.2	2329.2
2.5°	2345.1	2335.3	2309.6	2325.5	2318.2
5°	2334.1	2325.5	2299.8	2317.0	2309.6
7.5°	2318.2	2309.6	2285.1	2302.2	2296.1
10°	2294.9	2286.3	2266.7	2283.9	2279.0
12.5°	2265.5	2259.4	2241.0	2261.8	2256.9
15°	2228.7	2223.8	2209.1	2233.6	2230.0
17.5°	2189.5	2184.6	2176.0	2201.8	2203.0
20°	2140.5	2139.3	2138.1	2171.1	2176.0
22.5°	2090.3	2091.5	2096.4	2136.8	2144.2
25°	2033.9	2036.4	2052.3	2096.4	2105.0
27.5°	1973.9	1982.5	2005.7	2057.2	2070.7
30°	1906.5	1921.2	1958.0	2011.9	2026.6
32.5°	1840.3	1856.3	1905.3	1969.0	1988.6
35°	1766.8	1790.1	1851.4	1924.9	1944.5
37.5°	1693.3	1720.3	1796.2	1875.9	1900.4
40°	1616.1	1651.6	1738.6	1828.1	1859.9
42.5°	1532.8	1583.0	1683.5	1779.1	1814.6
45°	1453.1	1508.3	1624.7	1731.3	1771.7
47.5°	1371.1	1437.2	1565.9	1684.7	1727.6
50°	1280.4	1360.0	1507.1	1638.2	1685.9
52.5°	1192.2	1286.5	1448.2	1590.4	1643.1
55°	1100.3	1209.3	1388.2	1542.6	1599.0
57.5°	1014.5	1130.9	1330.6	1492.4	1552.4
60°	922.6	1054.9	1270.6	1445.8	1505.8
62.5°	829.5	979.0	1211.8	1395.6	1463.0
65°	740.1	900.6	1154.2	1347.8	1412.7
67.5°	644.5	829.5	1097.8	1296.3	1369.8
70°	553.8	756.0	1041.5	1247.3	1319.6
72.5°	463.1	684.9	986.3	1198.3	1271.8
75°	373.7	620.0	932.4	1148.1	1221.6
77.5°	284.3	551.4	877.3	1097.8	1175.0
80°	207.1	491.3	828.3	1046.4	1121.1
82.5°	140.9	435.0	773.1	997.4	1073.3
85°	74.7	379.8	719.2	943.4	1021.9
87.5°	22.1	330.8	666.5	890.8	969.2
90°	2.5	285.5	617.5	839.3	915.3
92.5°	3.7	246.3	571.0	792.7	866.3
95°	4.9	207.1	523.2	741.3	813.6
97.5°	4.9	172.8	474.2	688.6	765.8
100°	4.9	139.7	427.6	634.7	705.7
102.5°	4.9	109.0	383.5	580.8	650.6
105°	4.9	73.5	340.6	533.0	599.1
107.5°	4.9	36.8	299.0	486.4	551.4
110°	4.9	7.4	257.3	438.6	501.1



TEST NUMBER: P289985

CATALOG NUMBER: 8SSRK-LW-10-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.7	4.9	216.9	388.4	452.1
115°	3.7	3.7	171.5	339.4	403.1
117.5°	3.7	3.7	122.5	294.1	351.6
120°	3.7	2.5	71.1	246.3	303.9
122.5°	2.5	2.5	23.3	191.1	253.6
125°	2.5	1.2	1.2	136.0	193.6
127.5°	2.5	1.2	0.0	76.0	131.1
130°	2.5	1.2	0.0	22.1	74.7
132.5°	2.5	1.2	0.0	0.0	15.9
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)