

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: P289993

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289993
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-12-L835-CD1-U
Description: 12000 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: 10292.5 lumens
Efficiency: N/A
Efficacy: 127.2 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

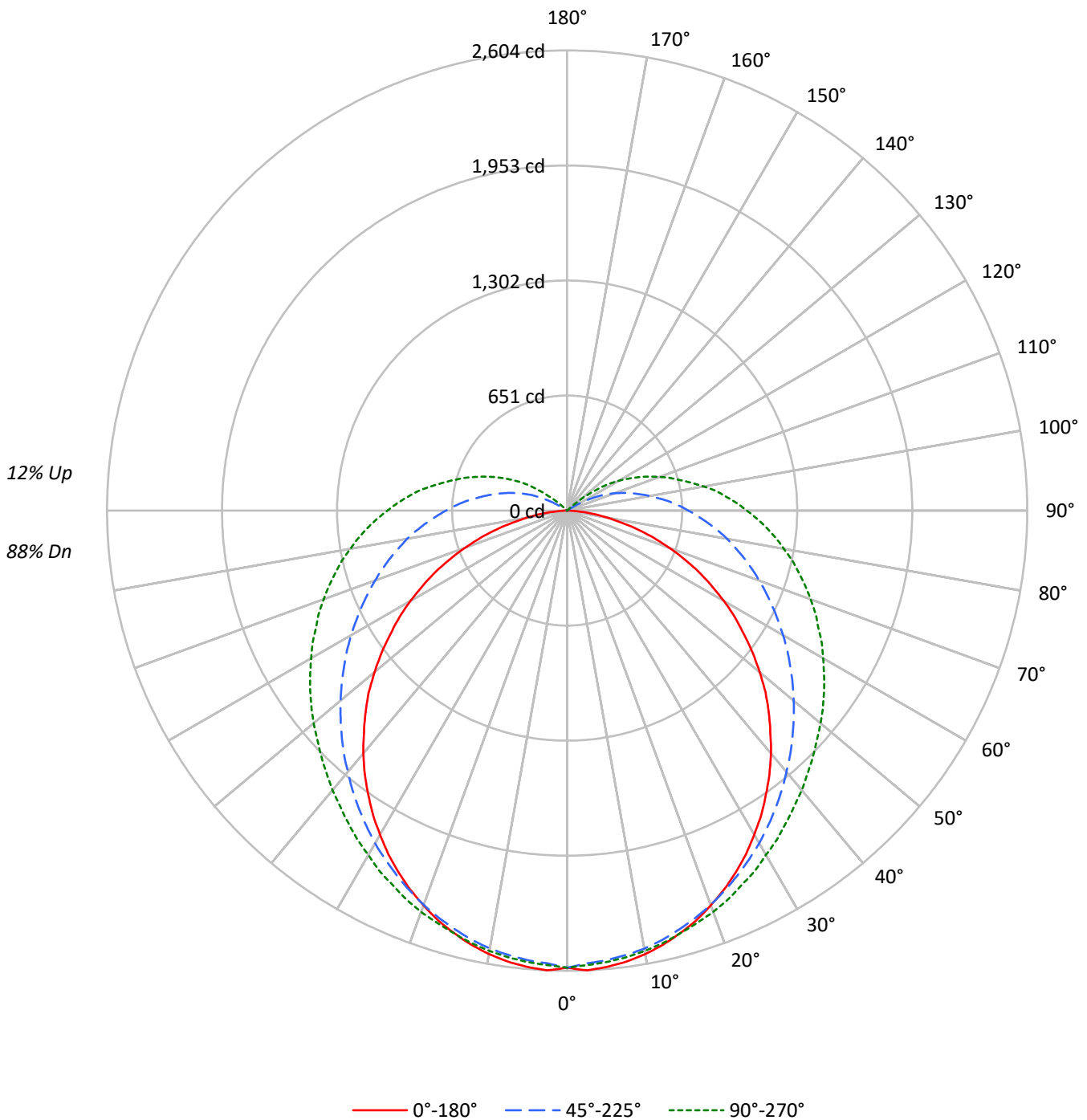
Input Watts (W): 80.8951
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P289993

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

Luminous Intensity Polar Plot





TEST NUMBER: P289993

CATALOG NUMBER: 8SSRK-LW-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	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°	83522	83522	83522
5°	83863	66291	61583
10°	83255	54975	48660
15°	82278	46548	39958
20°	81065	40095	33812
25°	79699	34913	29067
30°	78002	30691	25355
35°	76231	27097	22394
40°	74349	24038	19985
45°	72189	21438	17969
50°	69696	19158	16309
55°	66798	17150	14892
60°	63861	15380	13622
65°	60107	13799	12515
70°	54921	12392	11539
75°	48042	11126	10625
80°	38235	9988	9774
85°	24837	8834	8999



TEST NUMBER: P289993

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.3	2.4
10°-20°	697.2	6.8
20°-30°	1057.2	10.3
30°-40°	1290.2	12.5
40°-50°	1389.6	13.5
50°-60°	1364.8	13.3
60°-70°	1233.2	12.0
70°-80°	1026.7	10.0
80°-90°	787.4	7.7
90°-100°	570.1	5.5
100°-110°	368.3	3.6
110°-120°	198.5	1.9
120°-130°	62.8	0.6
130°-140°	2.4	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°	1998.6	19.4
0°-40°	3288.8	32.0
0°-60°	6043.1	58.7
0°-90°	9090.4	88.3
90°-120°	1136.9	11.0
90°-150°	1202.1	11.7
90°-180°	1202.0	11.7
0°-180°	10292.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2586	2586	2586	2586	2586	
5°	2592	2582	2554	2573	2565	246
15°	2475	2470	2453	2480	2476	698
25°	2259	2261	2279	2328	2338	1040
35°	1962	1988	2056	2138	2159	1228
45°	1614	1675	1804	1922	1967	1244
55°	1222	1343	1542	1713	1776	1095
65°	822	1000	1282	1497	1569	811
75°	415	688	1035	1275	1356	439
85°	83	422	799	1048	1135	100
90°	3	317	686	932	1016	5
95°	5	230	581	823	903	4
105°	5	82	378	592	665	6
115°	4	4	190	377	448	4
125°	3	1	1	151	215	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



TEST NUMBER: P289993

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2586.5	2586.5	2586.5	2586.5	2586.5
2.5°	2604.2	2593.3	2564.7	2582.4	2574.2
5°	2591.9	2582.4	2553.8	2572.9	2564.7
7.5°	2574.2	2564.7	2537.5	2556.5	2549.7
10°	2548.4	2538.8	2517.1	2536.1	2530.7
12.5°	2515.7	2508.9	2488.5	2511.6	2506.2
15°	2474.9	2469.5	2453.1	2480.3	2476.3
17.5°	2431.4	2425.9	2416.4	2445.0	2446.3
20°	2376.9	2375.6	2374.2	2411.0	2416.4
22.5°	2321.2	2322.5	2328.0	2372.9	2381.0
25°	2258.6	2261.3	2279.0	2328.0	2337.5
27.5°	2191.9	2201.4	2227.3	2284.4	2299.4
30°	2117.1	2133.4	2174.2	2234.1	2250.4
32.5°	2043.6	2061.3	2115.7	2186.5	2208.2
35°	1962.0	1987.8	2055.8	2137.5	2159.2
37.5°	1880.3	1910.3	1994.6	2083.1	2110.3
40°	1794.6	1834.1	1930.7	2030.0	2065.4
42.5°	1702.1	1757.9	1869.4	1975.6	2015.0
45°	1613.7	1674.9	1804.1	1922.5	1967.4
47.5°	1522.5	1596.0	1738.8	1870.8	1918.4
50°	1421.8	1510.2	1673.5	1819.1	1872.2
52.5°	1323.8	1428.6	1608.2	1766.0	1824.5
55°	1221.8	1342.9	1541.5	1713.0	1775.6
57.5°	1126.6	1255.8	1477.6	1657.2	1723.9
60°	1024.5	1171.5	1410.9	1605.5	1672.2
62.5°	921.1	1087.1	1345.6	1549.7	1624.5
65°	821.8	1000.0	1281.7	1496.6	1568.8
67.5°	715.7	921.1	1219.1	1439.5	1521.1
70°	615.0	839.5	1156.5	1385.1	1465.3
72.5°	514.3	760.6	1095.3	1330.6	1412.3
75°	415.0	688.5	1035.4	1274.9	1356.5
77.5°	315.7	612.3	974.2	1219.1	1304.8
80°	229.9	545.6	919.8	1161.9	1244.9
82.5°	156.5	483.0	858.5	1107.5	1191.9
85°	83.0	421.8	798.7	1047.6	1134.7
87.5°	24.5	367.4	740.2	989.1	1076.2
90°	2.7	317.0	685.7	932.0	1016.4
92.5°	4.1	273.5	634.0	880.3	961.9
95°	5.4	229.9	581.0	823.2	903.4
97.5°	5.4	191.8	526.5	764.6	850.4
100°	5.4	155.1	474.8	704.8	783.7
102.5°	5.4	121.1	425.9	644.9	722.5
105°	5.4	81.6	378.2	591.9	665.3
107.5°	5.4	40.8	332.0	540.2	612.3
110°	5.4	8.2	285.7	487.1	556.5



TEST NUMBER: P289993

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.1	5.4	240.8	431.3	502.1
115°	4.1	4.1	190.5	376.9	447.6
117.5°	4.1	4.1	136.1	326.5	390.5
120°	4.1	2.7	78.9	273.5	337.4
122.5°	2.7	2.7	25.9	212.3	281.6
125°	2.7	1.4	1.4	151.0	215.0
127.5°	2.7	1.4	0.0	84.4	145.6
130°	2.7	1.4	0.0	24.5	83.0
132.5°	2.7	1.4	0.0	0.0	17.7
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)