

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-80-L830-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-80-L830-CD1-U
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 80 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7894.7 lumens
Efficiency: N/A
Efficacy: 139.4 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

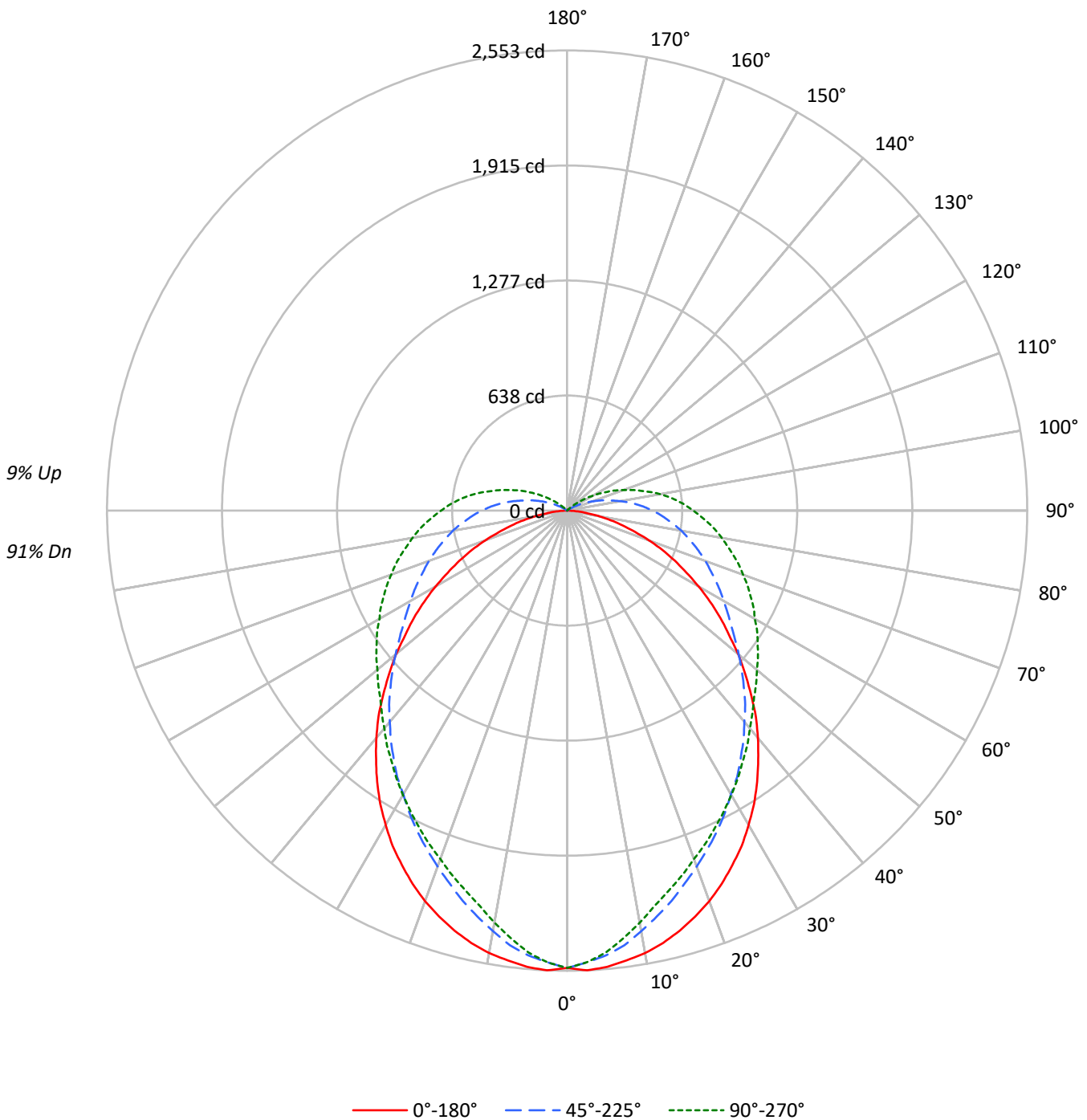
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P289643

CATALOG NUMBER: 8SSRK-TB-80-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P289643

CATALOG NUMBER: 8SSRK-TB-80-L830-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	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°	81920	81920	81920
5°	82213	64298	59093
10°	81442	51742	44632
15°	80220	42529	35198
20°	78619	35488	28790
25°	76548	30112	24144
30°	74185	25660	20526
35°	71402	22116	17610
40°	68193	19051	15270
45°	64517	16473	13391
50°	60711	14224	11972
55°	56788	12356	10823
60°	52547	10932	9796
65°	48214	9764	8956
70°	43169	8733	8179
75°	36998	7813	7479
80°	29902	6985	6838
85°	20319	6142	6241



TEST NUMBER: P289643

CATALOG NUMBER: 8SSRK-TB-80-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.9	3.0
10°-20°	640.1	8.1
20°-30°	926.2	11.7
30°-40°	1077.4	13.6
40°-50°	1096.6	13.9
50°-60°	1020.4	12.9
60°-70°	888.5	11.3
70°-80°	723.3	9.2
80°-90°	547.9	6.9
90°-100°	380.0	4.8
100°-110°	223.3	2.8
110°-120°	104.7	1.3
120°-130°	29.8	0.4
130°-140°	1.6	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°	1801.2	22.8
0°-40°	2878.5	36.5
0°-60°	4995.6	63.3
0°-90°	7155.3	90.6
90°-120°	708.0	9.0
90°-150°	739.4	9.4
90°-180°	739.0	9.4
0°-180°	7894.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2537	2537	2537	2537	2537	
5°	2541	2521	2477	2477	2461	241
15°	2413	2349	2241	2201	2181	680
25°	2169	2074	1966	1950	1942	999
35°	1838	1742	1678	1694	1698	1148
45°	1442	1386	1386	1442	1466	1113
55°	1039	1035	1111	1242	1290	927
65°	659	715	907	1067	1123	653
75°	320	467	727	895	955	341
85°	68	292	555	731	787	78
90°	0	212	471	643	699	4
95°	0	136	388	559	615	0
105°	0	32	220	372	424	0
115°	0	0	88	204	248	0
125°	0	0	4	68	100	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°	4	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P289643

CATALOG NUMBER: 8SSRK-TB-80-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2536.9	2536.9	2536.9	2536.9	2536.9
2.5°	2552.9	2540.9	2508.9	2520.9	2508.9
5°	2540.9	2520.9	2477.0	2477.0	2461.0
7.5°	2516.9	2492.9	2433.0	2413.0	2393.1
10°	2492.9	2457.0	2369.1	2345.1	2321.2
12.5°	2457.0	2405.1	2305.2	2269.2	2245.2
15°	2413.0	2349.1	2241.3	2201.3	2181.3
17.5°	2361.1	2289.2	2169.3	2137.4	2121.4
20°	2305.2	2221.3	2101.4	2073.5	2057.5
22.5°	2241.3	2145.4	2033.5	2013.5	2001.5
25°	2169.3	2073.5	1965.6	1949.6	1941.6
27.5°	2097.4	1993.6	1893.7	1885.7	1881.7
30°	2013.5	1913.7	1817.8	1821.8	1821.8
32.5°	1929.6	1829.8	1753.9	1761.8	1761.8
35°	1837.7	1741.9	1677.9	1693.9	1697.9
37.5°	1741.9	1658.0	1606.0	1630.0	1642.0
40°	1646.0	1570.1	1530.1	1566.1	1578.1
42.5°	1550.1	1478.2	1462.2	1506.2	1522.1
45°	1442.2	1386.3	1386.3	1442.2	1466.2
47.5°	1338.4	1302.4	1314.4	1386.3	1422.3
50°	1238.5	1210.5	1242.5	1334.4	1374.3
52.5°	1130.6	1122.6	1174.6	1286.4	1334.4
55°	1038.7	1034.7	1110.6	1242.5	1290.4
57.5°	938.9	950.8	1054.7	1198.5	1250.5
60°	843.0	866.9	1002.8	1154.6	1202.5
62.5°	747.1	795.0	954.8	1110.6	1166.6
65°	659.2	715.1	906.9	1066.7	1122.6
67.5°	571.3	643.2	858.9	1026.7	1082.7
70°	483.4	579.3	815.0	982.8	1038.7
72.5°	395.5	523.4	771.1	938.9	998.8
75°	319.6	467.4	727.1	894.9	954.8
77.5°	247.7	423.5	683.2	858.9	910.9
80°	179.8	375.5	643.2	815.0	870.9
82.5°	115.9	335.6	599.3	771.1	831.0
85°	67.9	291.6	555.3	731.1	787.0
87.5°	28.0	247.7	515.4	687.2	743.1
90°	0.0	211.7	471.4	643.2	699.1
92.5°	0.0	175.8	431.5	603.3	659.2
95°	0.0	135.8	387.5	559.3	615.2
97.5°	0.0	103.9	343.6	515.4	571.3
100°	0.0	79.9	299.6	463.4	523.4
102.5°	0.0	55.9	255.7	415.5	475.4
105°	0.0	32.0	219.7	371.5	423.5
107.5°	0.0	16.0	183.8	327.6	379.5
110°	0.0	4.0	147.8	283.7	331.6



TEST NUMBER: P289643

CATALOG NUMBER: 8SSRK-TB-80-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	115.9	243.7	291.6
115°	0.0	0.0	87.9	203.8	247.7
117.5°	0.0	0.0	59.9	167.8	207.7
120°	0.0	0.0	36.0	131.8	167.8
122.5°	0.0	0.0	16.0	99.9	131.8
125°	0.0	0.0	4.0	67.9	99.9
127.5°	0.0	0.0	0.0	40.0	67.9
130°	0.0	0.0	0.0	20.0	40.0
132.5°	0.0	0.0	0.0	4.0	16.0
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°	4.0	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)