

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-12-L950-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-12-L950-CD1-U
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 90 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10026.6 lumens
Efficiency: N/A
Efficacy: 123.9 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

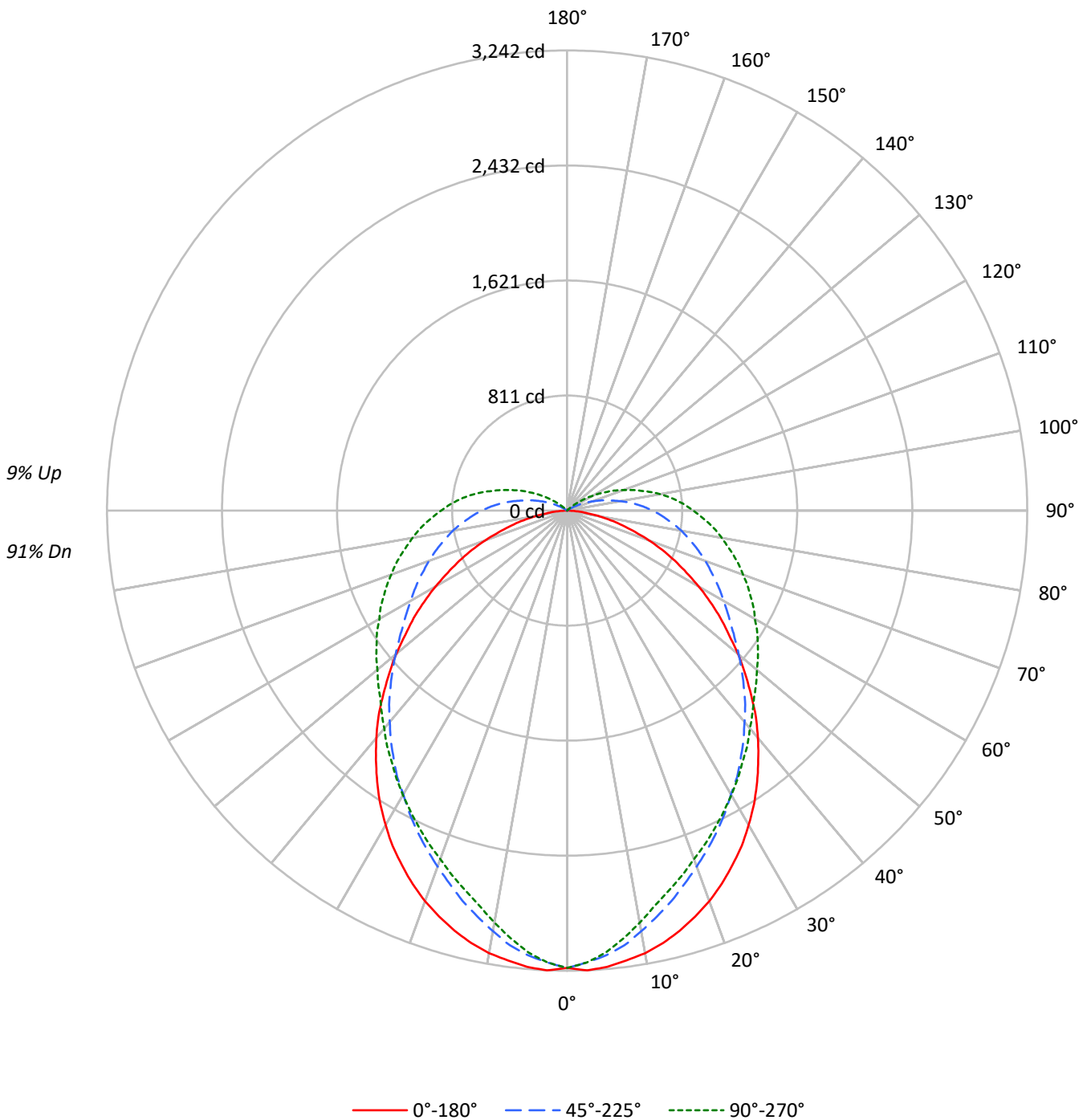
Input Watts (W): 80.8951
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P289643

CATALOG NUMBER: 8SSRK-TB-12-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P289643

CATALOG NUMBER: 8SSRK-TB-12-L950-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	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°	104043	104043	104043
5°	104412	81661	75051
10°	103439	65716	56684
15°	101886	54013	44703
20°	99850	45072	36564
25°	97222	38244	30664
30°	94221	32589	26069
35°	90685	28089	22365
40°	86608	24195	19393
45°	81941	20922	17007
50°	77103	18065	15204
55°	72123	15693	13746
60°	66734	13884	12441
65°	61233	12400	11374
70°	54823	11091	10388
75°	46989	9924	9499
80°	37968	8871	8684
85°	25825	7801	7927



TEST NUMBER: P289643

CATALOG NUMBER: 8SSRK-TB-12-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.3	3.0
10°-20°	813.0	8.1
20°-30°	1176.3	11.7
30°-40°	1368.3	13.6
40°-50°	1392.8	13.9
50°-60°	1296.0	12.9
60°-70°	1128.5	11.3
70°-80°	918.6	9.2
80°-90°	695.9	6.9
90°-100°	482.6	4.8
100°-110°	283.6	2.8
110°-120°	133.0	1.3
120°-130°	37.8	0.4
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°	2287.6	22.8
0°-40°	3655.9	36.5
0°-60°	6344.6	63.3
0°-90°	9087.5	90.6
90°-120°	899.1	9.0
90°-150°	939.1	9.4
90°-180°	939.0	9.4
0°-180°	10026.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3222	3222	3222	3222	3222	
5°	3227	3202	3146	3146	3126	306
15°	3065	2984	2846	2796	2770	863
25°	2755	2633	2496	2476	2466	1269
35°	2334	2212	2131	2151	2156	1458
45°	1832	1761	1761	1832	1862	1414
55°	1319	1314	1411	1578	1639	1178
65°	837	908	1152	1355	1426	829
75°	406	594	924	1137	1213	433
85°	86	370	705	928	1000	99
90°	0	269	599	817	888	5
95°	0	172	492	710	781	0
105°	0	41	279	472	538	0
115°	0	0	112	259	315	0
125°	0	0	5	86	127	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°	5	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P289643

CATALOG NUMBER: 8SSRK-TB-12-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3222.0	3222.0	3222.0	3222.0	3222.0
2.5°	3242.3	3227.0	3186.4	3201.7	3186.4
5°	3227.0	3201.7	3145.9	3145.9	3125.6
7.5°	3196.6	3166.2	3090.0	3064.7	3039.3
10°	3166.2	3120.5	3008.9	2978.4	2948.0
12.5°	3120.5	3054.5	2927.7	2882.0	2851.6
15°	3064.7	2983.5	2846.5	2795.8	2770.4
17.5°	2998.7	2907.4	2755.2	2714.6	2694.3
20°	2927.7	2821.1	2668.9	2633.4	2613.1
22.5°	2846.5	2724.7	2582.6	2557.3	2542.1
25°	2755.2	2633.4	2496.4	2476.1	2465.9
27.5°	2663.8	2531.9	2405.1	2394.9	2389.8
30°	2557.3	2430.4	2308.7	2313.7	2313.7
32.5°	2450.7	2323.9	2227.5	2237.6	2237.6
35°	2334.0	2212.2	2131.1	2151.4	2156.4
37.5°	2212.2	2105.7	2039.7	2070.2	2085.4
40°	2090.5	1994.1	1943.3	1989.0	2004.2
42.5°	1968.7	1877.4	1857.1	1912.9	1933.2
45°	1831.7	1760.7	1760.7	1831.7	1862.1
47.5°	1699.8	1654.1	1669.3	1760.7	1806.3
50°	1572.9	1537.4	1578.0	1694.7	1745.4
52.5°	1435.9	1425.8	1491.7	1633.8	1694.7
55°	1319.2	1314.2	1410.6	1578.0	1638.9
57.5°	1192.4	1207.6	1339.5	1522.2	1588.2
60°	1070.6	1101.1	1273.6	1466.4	1527.3
62.5°	948.8	1009.7	1212.7	1410.6	1481.6
65°	837.2	908.2	1151.8	1354.7	1425.8
67.5°	725.6	816.9	1090.9	1304.0	1375.0
70°	613.9	735.7	1035.1	1248.2	1319.2
72.5°	502.3	664.7	979.3	1192.4	1268.5
75°	405.9	593.7	923.5	1136.6	1212.7
77.5°	314.6	537.8	867.6	1090.9	1156.9
80°	228.3	477.0	816.9	1035.1	1106.1
82.5°	147.1	426.2	761.1	979.3	1055.4
85°	86.3	370.4	705.3	928.5	999.6
87.5°	35.5	314.6	654.5	872.7	943.8
90°	0.0	268.9	598.7	816.9	887.9
92.5°	0.0	223.3	548.0	766.2	837.2
95°	0.0	172.5	492.2	710.4	781.4
97.5°	0.0	131.9	436.4	654.5	725.6
100°	0.0	101.5	380.5	588.6	664.7
102.5°	0.0	71.0	324.7	527.7	603.8
105°	0.0	40.6	279.1	471.9	537.8
107.5°	0.0	20.3	233.4	416.1	482.0
110°	0.0	5.1	187.7	360.3	421.1



TEST NUMBER: P289643

CATALOG NUMBER: 8SSRK-TB-12-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	147.1	309.5	370.4
115°	0.0	0.0	111.6	258.8	314.6
117.5°	0.0	0.0	76.1	213.1	263.8
120°	0.0	0.0	45.7	167.4	213.1
122.5°	0.0	0.0	20.3	126.8	167.4
125°	0.0	0.0	5.1	86.3	126.8
127.5°	0.0	0.0	0.0	50.7	86.3
130°	0.0	0.0	0.0	25.4	50.7
132.5°	0.0	0.0	0.0	5.1	20.3
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°	5.1	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)