

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: P289819

Luminaire Tested: **8SSRK-TS-12-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289819
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-12-L850-CD1-U
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 80 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10598.4 lumens
Efficiency: N/A
Efficacy: 131.0 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

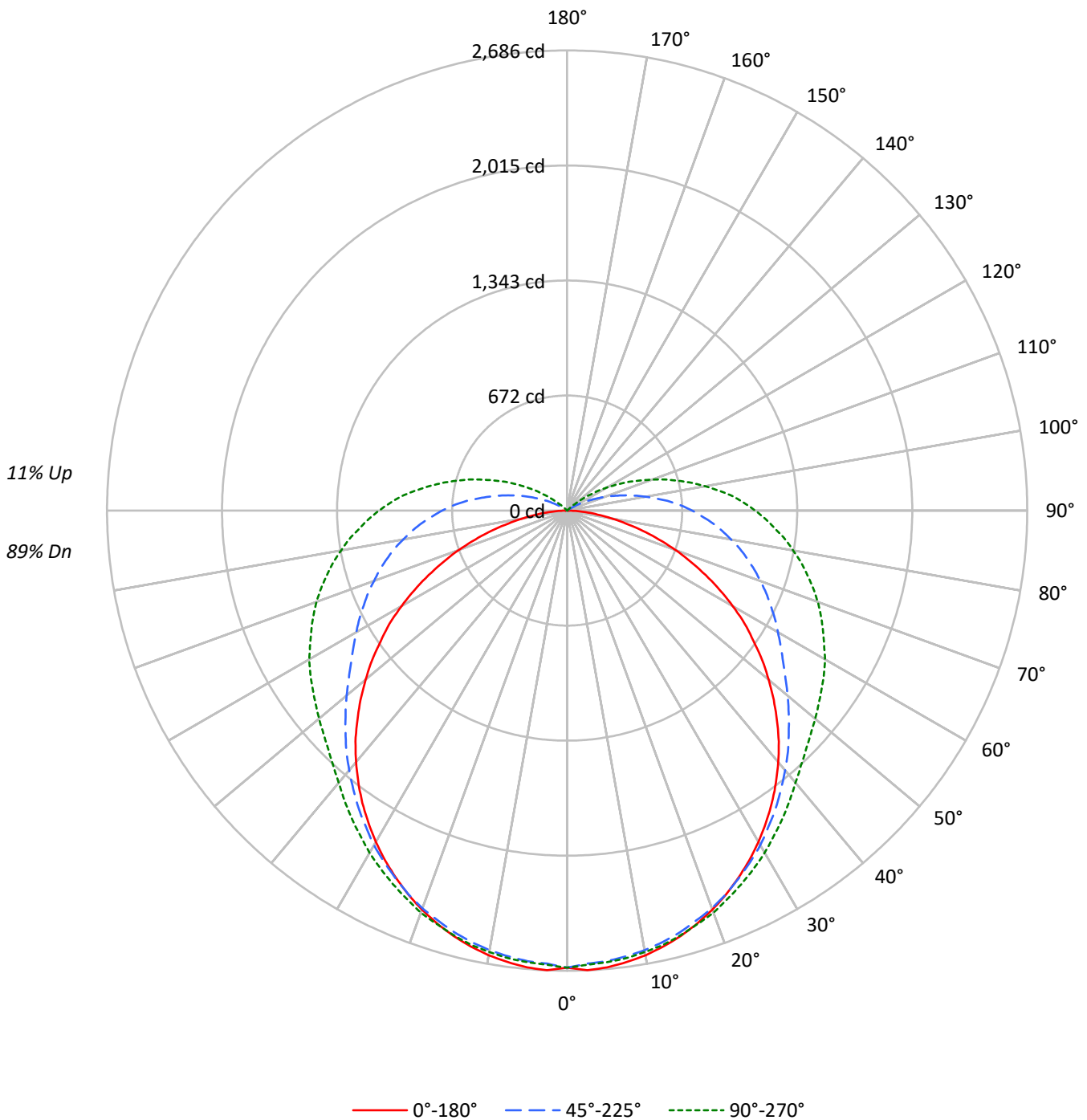
Input Watts (W): 80.8951
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P289819

CATALOG NUMBER: 8SSRK-TS-12-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P289819

CATALOG NUMBER: 8SSRK-TS-12-L850-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	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°	86144	86144	86144
5°	86584	68529	63557
10°	86111	56903	50310
15°	85420	48335	41394
20°	84516	41733	34946
25°	83439	36289	29922
30°	82280	31836	25987
35°	80964	27976	22746
40°	79391	24635	20070
45°	77495	21736	18008
50°	75284	19229	16465
55°	72621	17117	15214
60°	69602	15490	14157
65°	65271	14107	13146
70°	60172	12854	12257
75°	53020	11701	11369
80°	43956	10563	10516
85°	32289	9443	9667



TEST NUMBER: P289819

CATALOG NUMBER: 8SSRK-TS-12-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.4	2.4
10°-20°	723.1	6.8
20°-30°	1098.0	10.4
30°-40°	1334.7	12.6
40°-50°	1424.5	13.4
50°-60°	1397.0	13.2
60°-70°	1276.4	12.0
70°-80°	1083.2	10.2
80°-90°	843.0	8.0
90°-100°	594.3	5.6
100°-110°	353.3	3.3
110°-120°	167.2	1.6
120°-130°	48.5	0.5
130°-140°	2.8	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°	2073.5	19.6
0°-40°	3408.2	32.2
0°-60°	6229.7	58.8
0°-90°	9432.3	89.0
90°-120°	1114.8	10.5
90°-150°	1166.1	11.0
90°-180°	1166.0	11.0
0°-180°	10598.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2668	2668	2668	2668	2668	
5°	2676	2666	2640	2655	2647	254
15°	2569	2564	2547	2569	2565	725
25°	2365	2366	2369	2406	2406	1090
35°	2084	2095	2122	2175	2193	1303
45°	1732	1761	1829	1926	1972	1336
55°	1328	1385	1539	1739	1814	1190
65°	892	1007	1310	1561	1648	884
75°	458	695	1089	1359	1451	485
85°	108	443	854	1125	1219	121
90°	8	328	729	1003	1097	10
95°	8	220	602	869	970	7
105°	7	60	343	582	671	7
115°	6	6	140	320	396	6
125°	4	3	7	106	156	4
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: P289819

CATALOG NUMBER: 8SSRK-TS-12-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2667.7	2667.7	2667.7	2667.7	2667.7
2.5°	2685.6	2676.0	2646.9	2662.1	2653.8
5°	2676.0	2666.3	2640.0	2655.2	2646.9
7.5°	2658.0	2651.1	2624.8	2641.4	2635.8
10°	2635.8	2628.9	2605.4	2624.8	2616.5
12.5°	2605.4	2598.5	2579.1	2598.5	2595.7
15°	2569.4	2563.9	2547.3	2569.4	2565.3
17.5°	2526.5	2522.4	2508.5	2536.2	2530.7
20°	2478.1	2475.3	2471.2	2496.1	2497.5
22.5°	2425.5	2425.5	2422.8	2450.4	2451.8
25°	2364.6	2366.0	2368.8	2406.2	2406.2
27.5°	2302.4	2306.5	2313.4	2349.4	2357.7
30°	2233.2	2240.1	2255.3	2294.1	2306.5
32.5°	2159.9	2170.9	2187.5	2236.0	2248.4
35°	2083.8	2094.8	2122.5	2175.1	2193.1
37.5°	2002.1	2014.6	2050.6	2110.1	2133.6
40°	1916.3	1930.2	1978.6	2053.3	2074.1
42.5°	1829.2	1848.5	1908.0	1988.3	2020.1
45°	1732.3	1761.4	1829.2	1926.0	1971.7
47.5°	1635.5	1670.1	1754.5	1873.4	1928.8
50°	1535.8	1574.6	1679.7	1826.4	1890.1
52.5°	1436.2	1479.1	1606.4	1782.1	1851.3
55°	1328.3	1385.0	1538.6	1739.2	1814.0
57.5°	1228.7	1289.6	1477.7	1696.3	1778.0
60°	1116.6	1194.1	1421.0	1652.1	1737.9
62.5°	1005.9	1098.6	1367.0	1606.4	1690.8
65°	892.4	1007.3	1310.3	1560.7	1647.9
67.5°	780.4	914.6	1257.7	1513.7	1603.6
70°	673.8	834.3	1199.6	1465.3	1556.6
72.5°	561.8	763.8	1145.7	1414.1	1505.4
75°	458.0	694.6	1088.9	1358.7	1451.4
77.5°	352.8	629.6	1033.6	1303.4	1398.9
80°	264.3	568.7	972.7	1245.3	1339.4
82.5°	179.9	507.8	913.2	1185.8	1284.0
85°	107.9	442.8	853.7	1124.9	1219.0
87.5°	48.4	386.0	788.7	1062.6	1160.9
90°	8.3	327.9	729.2	1003.1	1097.2
92.5°	9.7	275.3	668.3	939.5	1033.6
95°	8.3	220.0	601.9	868.9	969.9
97.5°	8.3	173.0	531.3	799.7	892.4
100°	6.9	128.7	463.5	726.4	817.7
102.5°	6.9	91.3	402.6	654.5	745.8
105°	6.9	59.5	343.1	582.5	671.1
107.5°	6.9	33.2	285.0	513.3	603.3
110°	6.9	12.5	232.5	451.1	525.8



TEST NUMBER: P289819

CATALOG NUMBER: 8SSRK-TS-12-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.5	5.5	181.3	381.9	459.4
115°	5.5	5.5	139.7	319.6	395.7
117.5°	5.5	4.2	95.5	261.5	330.7
120°	5.5	4.2	59.5	208.9	268.4
122.5°	4.2	2.8	29.1	155.0	214.5
125°	4.2	2.8	6.9	106.5	156.4
127.5°	4.2	1.4	0.0	63.6	107.9
130°	2.8	1.4	0.0	30.4	63.6
132.5°	2.8	1.4	0.0	5.5	27.7
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)