

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-L930-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-L930-CD1-U
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 90 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8659.5 lumens
Efficiency: N/A
Efficacy: 107.0 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

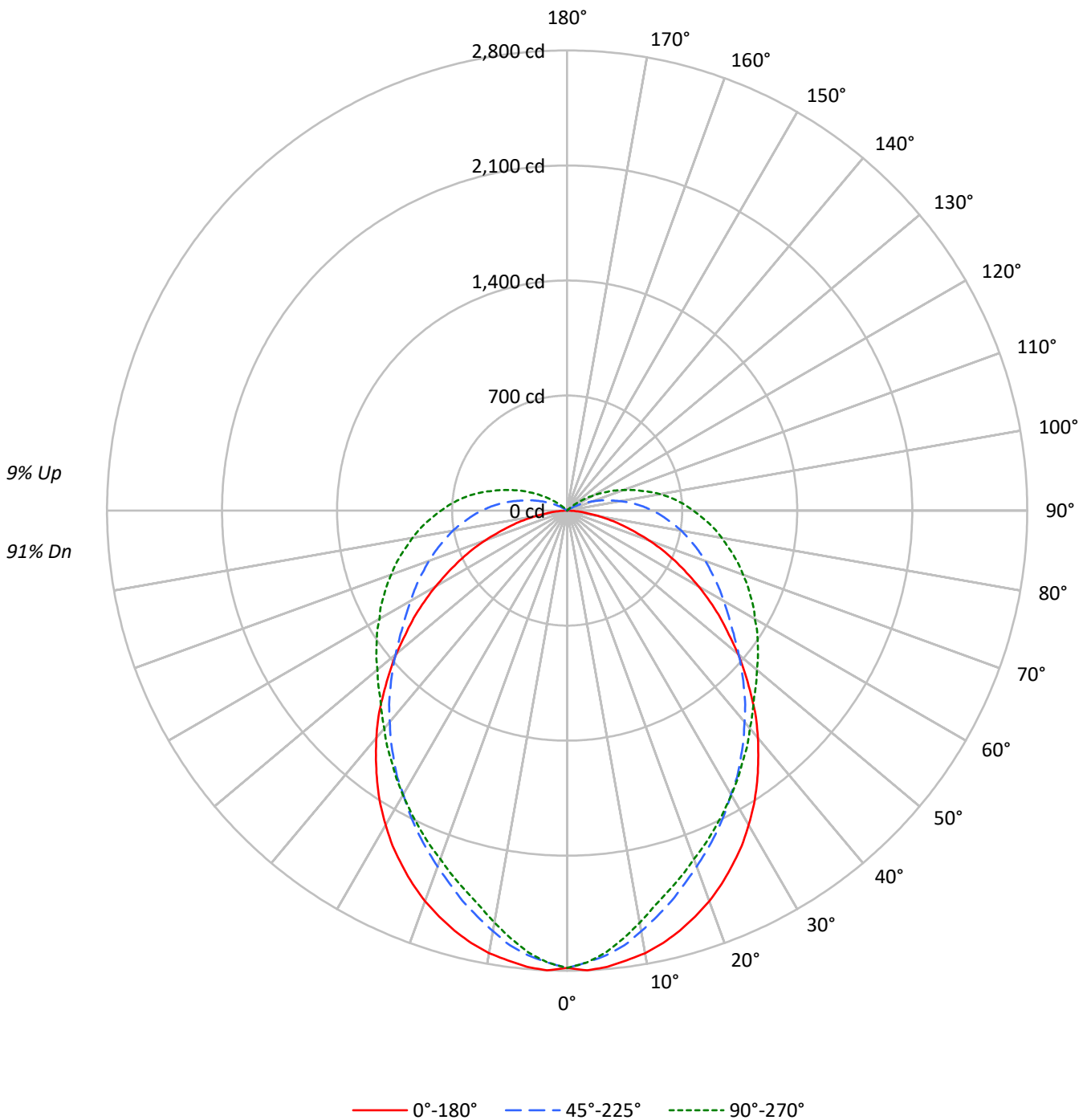
Input Watts (W): 80.8951
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	89858	89858	89858
5°	90179	70525	64818
10°	89335	56755	48955
15°	87993	46648	38609
20°	86235	38927	31578
25°	83965	33029	26483
30°	81373	28146	22515
35°	78322	24259	19316
40°	74796	20897	16750
45°	70771	18069	14689
50°	66593	15602	13132
55°	62293	13553	11871
60°	57634	11990	10745
65°	52888	10709	9823
70°	47348	9579	8972
75°	40587	8571	8203
80°	32796	7661	7500
85°	22294	6737	6846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.6	3.0
10°-20°	702.2	8.1
20°-30°	1015.9	11.7
30°-40°	1181.7	13.6
40°-50°	1202.9	13.9
50°-60°	1119.3	12.9
60°-70°	974.6	11.3
70°-80°	793.4	9.2
80°-90°	601.0	6.9
90°-100°	416.8	4.8
100°-110°	244.9	2.8
110°-120°	114.9	1.3
120°-130°	32.7	0.4
130°-140°	1.8	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°	1975.7	22.8
0°-40°	3157.4	36.5
0°-60°	5479.5	63.3
0°-90°	7848.5	90.6
90°-120°	776.6	9.0
90°-150°	811.0	9.4
90°-180°	811.0	9.4
0°-180°	8659.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2783	2783	2783	2783	2783	
5°	2787	2765	2717	2717	2699	264
15°	2647	2577	2458	2415	2393	746
25°	2380	2274	2156	2138	2130	1096
35°	2016	1911	1840	1858	1862	1259
45°	1582	1521	1521	1582	1608	1221
55°	1139	1135	1218	1363	1415	1017
65°	723	784	995	1170	1231	716
75°	351	513	798	982	1047	374
85°	74	320	609	802	863	86
90°	0	232	517	706	767	4
95°	0	149	425	614	675	0
105°	0	35	241	408	464	0
115°	0	0	96	224	272	0
125°	0	0	4	74	110	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2782.7	2782.7	2782.7	2782.7	2782.7
2.5°	2800.2	2787.1	2752.0	2765.1	2752.0
5°	2787.1	2765.1	2716.9	2716.9	2699.4
7.5°	2760.8	2734.5	2668.7	2646.8	2624.9
10°	2734.5	2695.0	2598.6	2572.3	2546.0
12.5°	2695.0	2638.1	2528.5	2489.1	2462.8
15°	2646.8	2576.7	2458.4	2414.6	2392.7
17.5°	2589.9	2511.0	2379.5	2344.5	2326.9
20°	2528.5	2436.5	2305.0	2274.3	2256.8
22.5°	2458.4	2353.2	2230.5	2208.6	2195.5
25°	2379.5	2274.3	2156.0	2138.5	2129.7
27.5°	2300.6	2186.7	2077.1	2068.4	2064.0
30°	2208.6	2099.1	1993.9	1998.3	1998.3
32.5°	2116.6	2007.0	1923.8	1932.5	1932.5
35°	2015.8	1910.6	1840.5	1858.0	1862.4
37.5°	1910.6	1818.6	1761.6	1787.9	1801.1
40°	1805.4	1722.2	1678.4	1717.8	1731.0
42.5°	1700.3	1621.4	1603.9	1652.1	1669.6
45°	1582.0	1520.6	1520.6	1582.0	1608.3
47.5°	1468.0	1428.6	1441.7	1520.6	1560.0
50°	1358.5	1327.8	1362.9	1463.6	1507.5
52.5°	1240.2	1231.4	1288.4	1411.1	1463.6
55°	1139.4	1135.0	1218.2	1362.9	1415.4
57.5°	1029.8	1043.0	1156.9	1314.6	1371.6
60°	924.6	950.9	1099.9	1266.4	1319.0
62.5°	819.5	872.0	1047.3	1218.2	1279.6
65°	723.1	784.4	994.7	1170.0	1231.4
67.5°	626.6	705.5	942.2	1126.2	1187.6
70°	530.2	635.4	894.0	1078.0	1139.4
72.5°	433.8	574.1	845.8	1029.8	1095.5
75°	350.6	512.7	797.6	981.6	1047.3
77.5°	271.7	464.5	749.3	942.2	999.1
80°	197.2	411.9	705.5	894.0	955.3
82.5°	127.1	368.1	657.3	845.8	911.5
85°	74.5	319.9	609.1	801.9	863.3
87.5°	30.7	271.7	565.3	753.7	815.1
90°	0.0	232.3	517.1	705.5	766.9
92.5°	0.0	192.8	473.3	661.7	723.1
95°	0.0	149.0	425.1	613.5	674.9
97.5°	0.0	113.9	376.9	565.3	626.6
100°	0.0	87.6	328.7	508.3	574.1
102.5°	0.0	61.4	280.5	455.7	521.5
105°	0.0	35.1	241.0	407.5	464.5
107.5°	0.0	17.5	201.6	359.3	416.3
110°	0.0	4.4	162.1	311.1	363.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	127.1	267.3	319.9
115°	0.0	0.0	96.4	223.5	271.7
117.5°	0.0	0.0	65.7	184.1	227.9
120°	0.0	0.0	39.4	144.6	184.1
122.5°	0.0	0.0	17.5	109.6	144.6
125°	0.0	0.0	4.4	74.5	109.6
127.5°	0.0	0.0	0.0	43.8	74.5
130°	0.0	0.0	0.0	21.9	43.8
132.5°	0.0	0.0	0.0	4.4	17.5
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°	4.4	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)