

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: P290523

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-17)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-SLW-12-L850-CD1-U
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 80 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11109.6 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

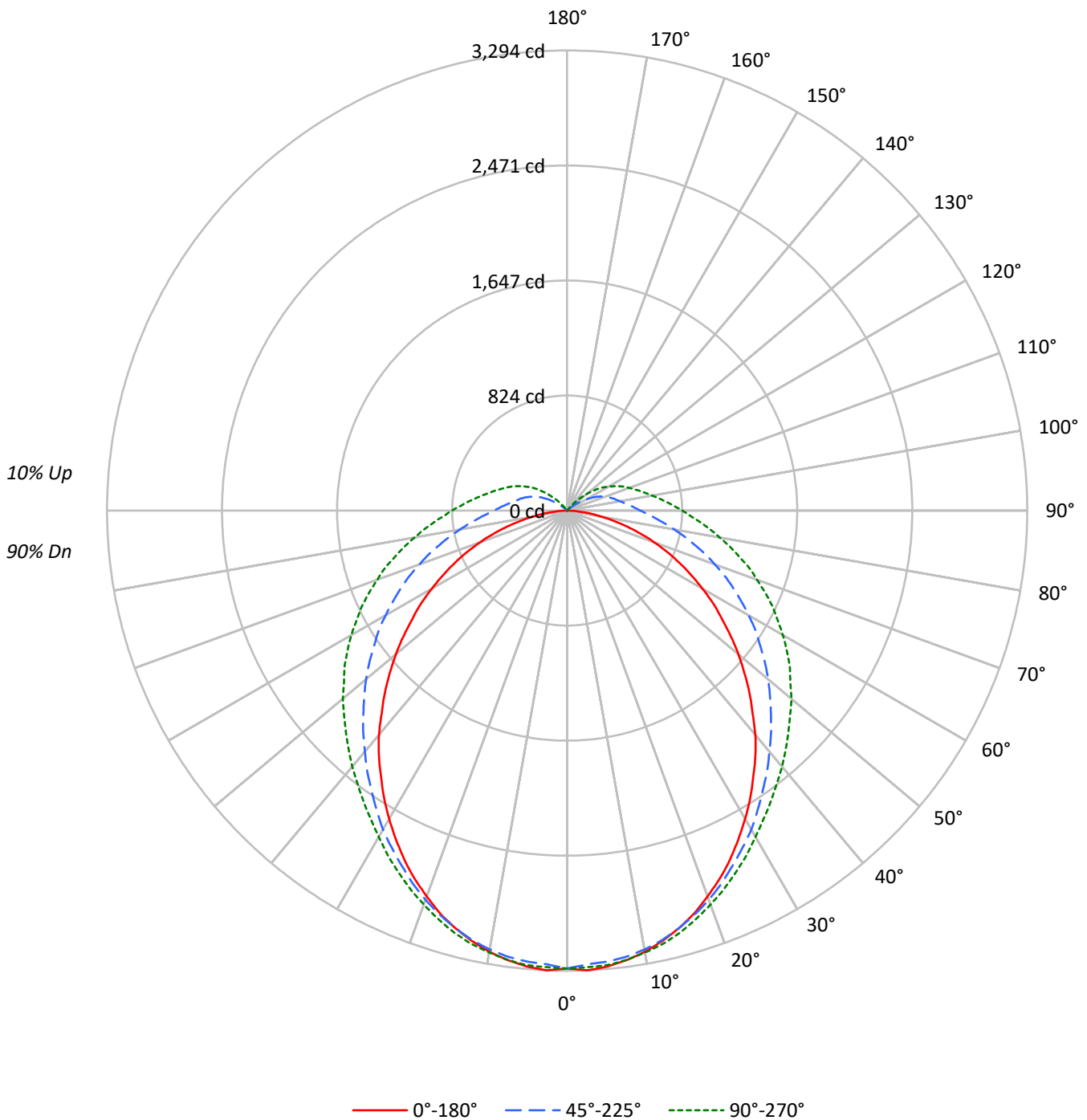
Input Watts (W): 80.8951
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	90
1	104	99	94	89	101	96	91	87	89	86	82	84	81	78	79	76	74	71
2	94	85	78	71	91	82	76	70	77	72	67	72	68	64	68	64	61	58
3	86	74	66	59	82	72	64	58	68	61	55	63	58	53	60	55	51	48
4	78	66	56	49	75	64	55	49	60	53	47	56	50	45	53	48	43	41
5	72	59	49	42	69	57	48	42	54	46	40	50	44	39	48	42	38	35
6	66	53	43	37	64	51	43	36	48	41	35	46	39	34	43	37	33	31
7	61	48	39	32	59	46	38	32	44	36	31	42	35	30	39	34	29	27
8	57	43	35	29	55	42	34	28	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	23	48	36	28	23	34	27	23	33	26	22	31	26	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	105842	105842	105842
5°	106053	84151	78439
10°	104778	69684	61774
15°	102850	58703	50456
20°	100229	50074	41992
25°	97304	42944	35529
30°	93900	37225	30383
35°	90261	32189	26362
40°	86844	28045	23161
45°	82568	24513	20459
50°	78471	21509	18260
55°	73982	18764	16315
60°	69683	16365	14528
65°	64868	14136	12936
70°	59065	12053	11386
75°	51411	10140	9982
80°	41644	8444	8702
85°	29386	7040	7582



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.8	2.8
10°-20°	876.0	7.9
20°-30°	1296.0	11.7
30°-40°	1530.6	13.8
40°-50°	1591.1	14.3
50°-60°	1500.1	13.5
60°-70°	1278.7	11.5
70°-80°	967.1	8.7
80°-90°	652.5	5.9
90°-100°	448.0	4.0
100°-110°	321.3	2.9
110°-120°	206.2	1.9
120°-130°	105.2	0.9
130°-140°	26.7	0.2
140°-150°	0.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2481.8	22.3
0°-40°	4012.4	36.1
0°-60°	7103.6	63.9
0°-90°	10002.0	90.0
90°-120°	975.4	8.8
90°-150°	1107.7	10.0
90°-180°	1108.0	10.0
0°-180°	11109.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3278	3278	3278	3278	3278	
5°	3278	3269	3242	3272	3267	310
15°	3094	3103	3094	3124	3127	871
25°	2758	2789	2803	2852	2857	1268
35°	2323	2378	2442	2515	2542	1455
45°	1846	1937	2063	2190	2240	1424
55°	1353	1493	1687	1868	1945	1214
65°	887	1067	1313	1530	1622	880
75°	444	660	944	1184	1274	475
85°	98	331	636	872	956	112
90°	1	234	523	746	825	6
95°	1	185	446	642	714	2
105°	3	119	338	486	541	3
115°	3	15	234	367	412	3
125°	3	4	98	228	274	3
135°	3	1	1	72	106	2
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3277.7	3277.7	3277.7	3277.7	3277.7
2.5°	3294.3	3283.3	3251.5	3279.1	3272.2
5°	3277.7	3269.4	3241.8	3272.2	3266.7
7.5°	3245.9	3244.5	3222.4	3254.2	3244.5
10°	3207.2	3208.6	3190.6	3222.4	3212.7
12.5°	3154.6	3160.1	3147.7	3178.1	3176.7
15°	3093.7	3103.4	3093.7	3124.2	3126.9
17.5°	3024.5	3039.8	3032.8	3070.2	3066.1
20°	2938.8	2959.5	2965.1	3002.4	3001.0
22.5°	2853.0	2879.3	2889.0	2927.7	2933.2
25°	2757.5	2789.3	2803.2	2851.6	2857.1
27.5°	2653.7	2695.2	2720.2	2768.6	2781.0
30°	2548.6	2592.9	2637.1	2685.6	2696.6
32.5°	2439.3	2487.7	2538.9	2605.3	2617.8
35°	2323.1	2378.4	2442.1	2515.4	2541.7
37.5°	2213.8	2276.0	2350.7	2436.5	2464.2
40°	2096.2	2159.8	2252.5	2349.3	2393.6
42.5°	1964.7	2050.5	2161.2	2277.4	2316.1
45°	1845.7	1937.0	2062.9	2190.2	2240.0
47.5°	1721.2	1827.7	1970.2	2111.4	2165.3
50°	1600.8	1717.0	1878.9	2031.1	2096.2
52.5°	1476.3	1607.7	1783.5	1952.3	2013.1
55°	1353.2	1492.9	1686.6	1867.9	1945.3
57.5°	1242.5	1385.0	1599.4	1784.8	1863.7
60°	1117.9	1282.6	1501.2	1700.4	1783.5
62.5°	1003.1	1170.5	1404.4	1616.0	1699.1
65°	886.9	1066.8	1313.0	1530.3	1621.6
67.5°	777.6	958.8	1220.3	1445.9	1533.0
70°	661.4	857.8	1124.9	1357.3	1445.9
72.5°	554.8	756.8	1036.3	1271.5	1367.0
75°	444.1	660.0	943.6	1184.4	1274.3
77.5°	345.9	565.9	860.6	1102.7	1192.7
80°	250.4	480.1	777.6	1021.1	1108.3
82.5°	170.2	401.2	704.3	946.4	1032.2
85°	98.2	330.7	636.5	871.7	956.1
87.5°	37.4	275.3	575.6	806.6	884.1
90°	1.4	233.8	523.0	745.8	824.6
92.5°	1.4	204.8	482.9	690.4	763.7
95°	1.4	185.4	445.5	642.0	713.9
97.5°	2.8	170.2	412.3	599.1	662.7
100°	2.8	155.0	384.6	557.6	618.5
102.5°	2.8	139.7	359.7	520.2	577.0
105°	2.8	119.0	337.6	485.6	541.0
107.5°	2.8	92.7	312.7	456.6	505.0
110°	2.8	67.8	286.4	427.5	474.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	41.5	262.9	398.5	444.1
115°	2.8	15.2	233.8	366.7	412.3
117.5°	2.8	5.5	199.2	336.2	376.3
120°	2.8	4.2	166.0	303.0	343.1
122.5°	2.8	4.2	131.4	267.0	309.9
125°	2.8	4.2	98.2	228.3	274.0
127.5°	2.8	2.8	63.6	188.2	229.7
130°	2.8	2.8	30.4	149.4	189.6
132.5°	2.8	2.8	1.4	109.3	148.0
135°	2.8	1.4	1.4	71.9	106.5
137.5°	2.8	1.4	0.0	34.6	69.2
140°	2.8	1.4	0.0	0.0	27.7
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)