

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: P290518

Luminaire Tested: **8SSRK-SLW-12-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290518
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-L940-CD1-U
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9398.7 lumens
Efficiency: N/A
Efficacy: 116.2 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

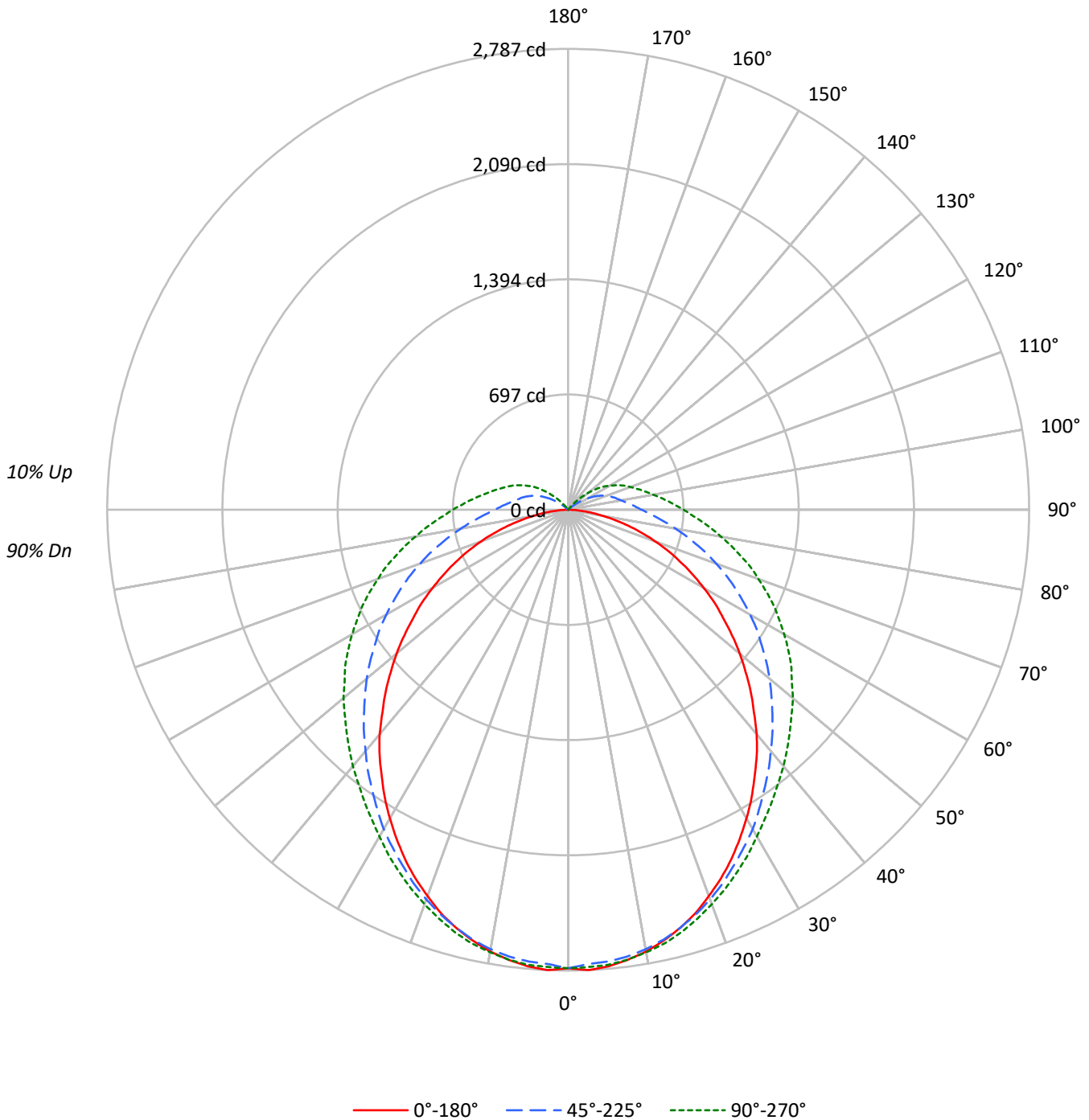
Input Watts (W): 80.8951
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	89544	89544	89544
5°	89723	71190	66359
10°	88642	58952	52262
15°	87012	49663	42686
20°	84793	42362	35526
25°	82321	36330	30057
30°	79439	31493	25705
35°	76359	27231	22302
40°	73467	23726	19594
45°	69854	20739	17309
50°	66387	18197	15447
55°	62588	15875	13803
60°	58955	13844	12291
65°	54877	11959	10944
70°	49965	10196	9632
75°	43493	8578	8445
80°	35241	7143	7361
85°	24867	5955	6414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.1	2.8
10°-20°	741.1	7.9
20°-30°	1096.4	11.7
30°-40°	1294.9	13.8
40°-50°	1346.1	14.3
50°-60°	1269.1	13.5
60°-70°	1081.8	11.5
70°-80°	818.1	8.7
80°-90°	552.0	5.9
90°-100°	379.0	4.0
100°-110°	271.8	2.9
110°-120°	174.4	1.9
120°-130°	89.0	0.9
130°-140°	22.6	0.2
140°-150°	0.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2099.6	22.3
0°-40°	3394.5	36.1
0°-60°	6009.7	63.9
0°-90°	8461.7	90.0
90°-120°	825.2	8.8
90°-150°	937.1	10.0
90°-180°	937.0	10.0
0°-180°	9398.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2773	2773	2773	2773	2773	
5°	2773	2766	2742	2768	2764	263
15°	2617	2626	2617	2643	2645	737
25°	2333	2360	2372	2412	2417	1073
35°	1965	2012	2066	2128	2150	1231
45°	1562	1639	1745	1853	1895	1204
55°	1145	1263	1427	1580	1646	1027
65°	750	902	1111	1295	1372	744
75°	376	558	798	1002	1078	402
85°	83	280	538	737	809	95
90°	1	198	442	631	698	5
95°	1	157	377	543	604	1
105°	2	101	286	411	458	2
115°	2	13	198	310	349	2
125°	2	4	83	193	232	2
135°	2	1	1	61	90	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°	2773.0	2773.0	2773.0	2773.0	2773.0
2.5°	2787.0	2777.7	2750.7	2774.1	2768.3
5°	2773.0	2765.9	2742.5	2768.3	2763.6
7.5°	2746.0	2744.9	2726.2	2753.1	2744.9
10°	2713.3	2714.4	2699.2	2726.2	2718.0
12.5°	2668.8	2673.5	2662.9	2688.7	2687.5
15°	2617.3	2625.5	2617.3	2643.0	2645.4
17.5°	2558.8	2571.6	2565.8	2597.4	2593.9
20°	2486.2	2503.8	2508.4	2540.0	2538.9
22.5°	2413.6	2435.9	2444.1	2476.8	2481.5
25°	2332.9	2359.8	2371.5	2412.5	2417.1
27.5°	2245.1	2280.2	2301.3	2342.2	2352.8
30°	2156.1	2193.6	2231.0	2272.0	2281.4
32.5°	2063.6	2104.6	2147.9	2204.1	2214.6
35°	1965.3	2012.1	2066.0	2128.0	2150.3
37.5°	1872.8	1925.5	1988.7	2061.3	2084.7
40°	1773.3	1827.2	1905.6	1987.5	2025.0
42.5°	1662.1	1734.7	1828.4	1926.7	1959.5
45°	1561.5	1638.7	1745.3	1852.9	1895.1
47.5°	1456.1	1546.3	1666.8	1786.2	1831.9
50°	1354.3	1452.6	1589.6	1718.3	1773.3
52.5°	1248.9	1360.1	1508.8	1651.6	1703.1
55°	1144.8	1263.0	1426.9	1580.2	1645.8
57.5°	1051.1	1171.7	1353.1	1510.0	1576.7
60°	945.8	1085.1	1270.0	1438.6	1508.8
62.5°	848.6	990.3	1188.1	1367.2	1437.4
65°	750.3	902.5	1110.8	1294.6	1371.9
67.5°	657.8	811.2	1032.4	1223.2	1296.9
70°	559.5	725.7	951.6	1148.3	1223.2
72.5°	469.4	640.3	876.7	1075.7	1156.5
75°	375.7	558.3	798.3	1002.0	1078.1
77.5°	292.6	478.7	728.1	932.9	1009.0
80°	211.9	406.2	657.8	863.8	937.6
82.5°	144.0	339.5	595.8	800.6	873.2
85°	83.1	279.8	538.4	737.4	808.8
87.5°	31.6	232.9	486.9	682.4	748.0
90°	1.2	197.8	442.5	630.9	697.6
92.5°	1.2	173.2	408.5	584.1	646.1
95°	1.2	156.9	376.9	543.1	604.0
97.5°	2.3	144.0	348.8	506.8	560.7
100°	2.3	131.1	325.4	471.7	523.2
102.5°	2.3	118.2	304.3	440.1	488.1
105°	2.3	100.7	285.6	410.9	457.7
107.5°	2.3	78.4	264.5	386.3	427.2
110°	2.3	57.4	242.3	361.7	401.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	35.1	222.4	337.1	375.7
115°	2.3	12.9	197.8	310.2	348.8
117.5°	2.3	4.7	168.6	284.4	318.4
120°	2.3	3.5	140.5	256.3	290.3
122.5°	2.3	3.5	111.2	225.9	262.2
125°	2.3	3.5	83.1	193.1	231.8
127.5°	2.3	2.3	53.8	159.2	194.3
130°	2.3	2.3	25.8	126.4	160.4
132.5°	2.3	2.3	1.2	92.5	125.2
135°	2.3	1.2	1.2	60.9	90.1
137.5°	2.3	1.2	0.0	29.3	58.5
140°	2.3	1.2	0.0	0.0	23.4
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)