

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: P290514

Luminaire Tested: **8SSRK-SLW-10-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290514
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-10-L840-CD1-U
Description: 10000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 80 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10004.6 lumens
Efficiency: N/A
Efficacy: 139.1 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

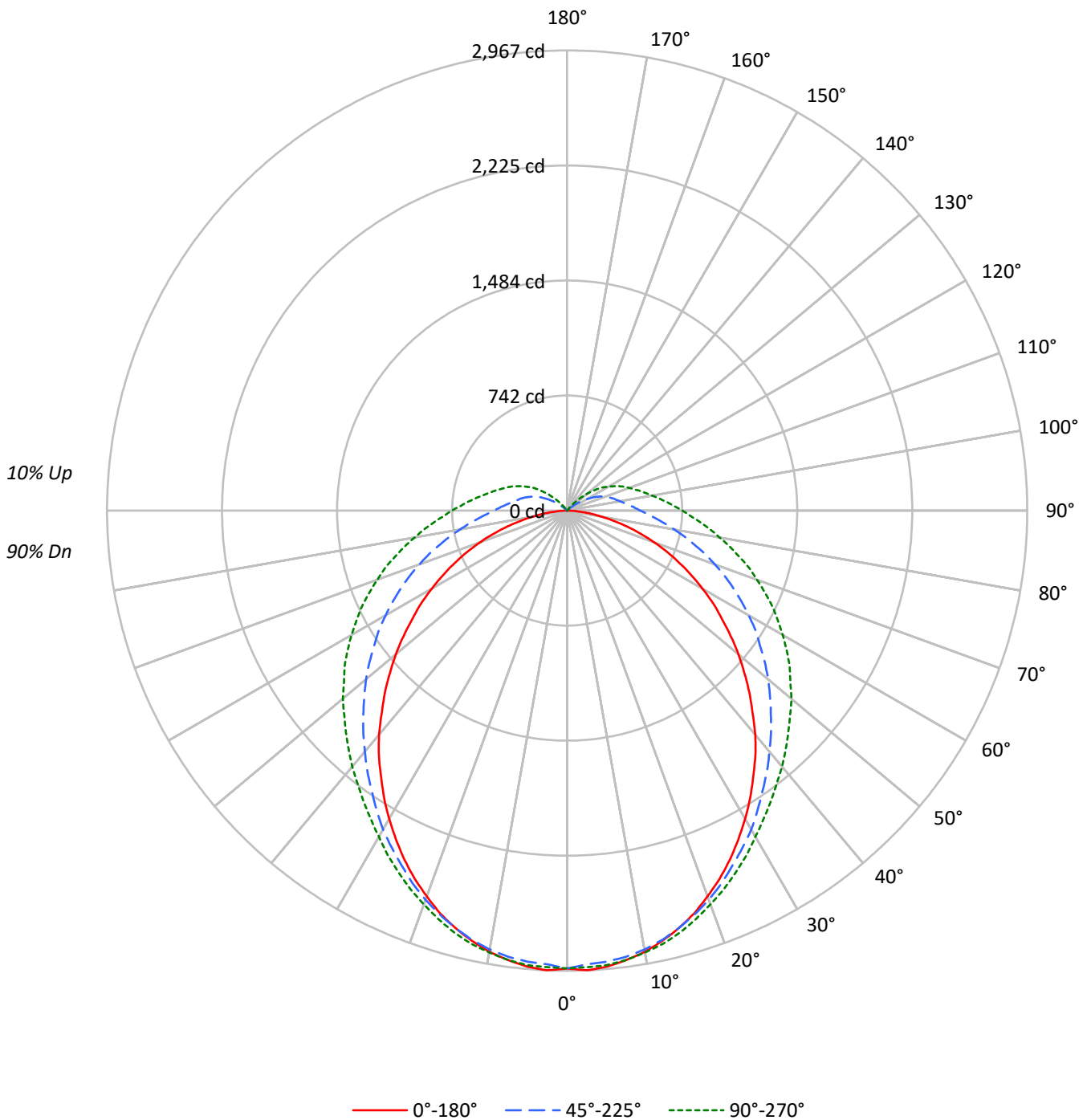
Input Watts (W): 71.9151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	95315	95315	95315
5°	95505	75779	70638
10°	94356	62752	55631
15°	92621	52865	45438
20°	90260	45092	37815
25°	87624	38672	31995
30°	84560	33522	27361
35°	81282	28987	23740
40°	78206	25256	20857
45°	74354	22076	18424
50°	70667	19370	16444
55°	66623	16897	14692
60°	62758	14737	13083
65°	58417	12730	11650
70°	53189	10854	10253
75°	46306	9132	8988
80°	37503	7604	7836
85°	26483	6340	6828



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.9	2.8
10°-20°	788.9	7.9
20°-30°	1167.1	11.7
30°-40°	1378.4	13.8
40°-50°	1432.9	14.3
50°-60°	1350.9	13.5
60°-70°	1151.5	11.5
70°-80°	870.9	8.7
80°-90°	587.6	5.9
90°-100°	403.4	4.0
100°-110°	289.3	2.9
110°-120°	185.7	1.9
120°-130°	94.7	0.9
130°-140°	24.0	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°	2234.9	22.3
0°-40°	3613.3	36.1
0°-60°	6397.1	63.9
0°-90°	9007.1	90.0
90°-120°	878.4	8.8
90°-150°	997.5	10.0
90°-180°	997.0	10.0
0°-180°	10004.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2952	2952	2952	2952	2952	
5°	2952	2944	2919	2947	2942	280
15°	2786	2795	2786	2813	2816	784
25°	2483	2512	2524	2568	2573	1142
35°	2092	2142	2199	2265	2289	1310
45°	1662	1744	1858	1972	2017	1282
55°	1219	1344	1519	1682	1752	1093
65°	799	961	1182	1378	1460	792
75°	400	594	850	1067	1148	427
85°	88	298	573	785	861	101
90°	1	211	471	672	743	5
95°	1	167	401	578	643	2
105°	2	107	304	437	487	3
115°	2	14	211	330	371	2
125°	2	4	88	206	247	2
135°	2	1	1	65	96	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



TEST NUMBER: P290514

CATALOG NUMBER: 8SSRK-SLW-10-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2951.7	2951.7	2951.7	2951.7	2951.7
2.5°	2966.7	2956.7	2928.0	2953.0	2946.7
5°	2951.7	2944.2	2919.3	2946.7	2941.8
7.5°	2923.1	2921.8	2901.9	2930.5	2921.8
10°	2888.2	2889.4	2873.2	2901.9	2893.2
12.5°	2840.8	2845.8	2834.6	2862.0	2860.8
15°	2786.0	2794.7	2786.0	2813.4	2815.9
17.5°	2723.7	2737.4	2731.2	2764.8	2761.1
20°	2646.5	2665.1	2670.1	2703.8	2702.5
22.5°	2569.2	2592.9	2601.6	2636.5	2641.5
25°	2483.2	2511.9	2524.4	2568.0	2572.9
27.5°	2389.8	2427.2	2449.6	2493.2	2504.4
30°	2295.1	2335.0	2374.8	2418.4	2428.4
32.5°	2196.7	2240.3	2286.4	2346.2	2357.4
35°	2092.0	2141.8	2199.2	2265.2	2288.9
37.5°	1993.6	2049.6	2116.9	2194.2	2219.1
40°	1887.7	1945.0	2028.5	2115.7	2155.5
42.5°	1769.3	1846.5	1946.2	2050.9	2085.8
45°	1662.1	1744.4	1857.8	1972.4	2017.2
47.5°	1550.0	1645.9	1774.3	1901.4	1950.0
50°	1441.6	1546.3	1692.0	1829.1	1887.7
52.5°	1329.5	1447.8	1606.1	1758.1	1812.9
55°	1218.6	1344.4	1518.8	1682.1	1751.8
57.5°	1118.9	1247.2	1440.4	1607.3	1678.3
60°	1006.8	1155.0	1351.9	1531.3	1606.1
62.5°	903.3	1054.1	1264.7	1455.3	1530.1
65°	798.7	960.6	1182.4	1378.1	1460.3
67.5°	700.2	863.5	1099.0	1302.0	1380.5
70°	595.6	772.5	1013.0	1222.3	1302.0
72.5°	499.6	681.6	933.2	1145.1	1231.0
75°	400.0	594.3	849.8	1066.6	1147.5
77.5°	311.5	509.6	775.0	993.0	1074.0
80°	225.5	432.4	700.2	919.5	998.0
82.5°	153.3	361.3	634.2	852.2	929.5
85°	88.5	297.8	573.2	785.0	861.0
87.5°	33.6	247.9	518.3	726.4	796.2
90°	1.2	210.6	471.0	671.6	742.6
92.5°	1.2	184.4	434.8	621.7	687.8
95°	1.2	167.0	401.2	578.1	642.9
97.5°	2.5	153.3	371.3	539.5	596.8
100°	2.5	139.5	346.4	502.1	557.0
102.5°	2.5	125.8	324.0	468.5	519.6
105°	2.5	107.2	304.0	437.3	487.2
107.5°	2.5	83.5	281.6	411.2	454.8
110°	2.5	61.1	257.9	385.0	427.4



TEST NUMBER: P290514

CATALOG NUMBER: 8SSRK-SLW-10-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	37.4	236.7	358.8	400.0
115°	2.5	13.7	210.6	330.2	371.3
117.5°	2.5	5.0	179.4	302.8	338.9
120°	2.5	3.7	149.5	272.9	309.0
122.5°	2.5	3.7	118.4	240.5	279.1
125°	2.5	3.7	88.5	205.6	246.7
127.5°	2.5	2.5	57.3	169.5	206.8
130°	2.5	2.5	27.4	134.6	170.7
132.5°	2.5	2.5	1.2	98.4	133.3
135°	2.5	1.2	1.2	64.8	95.9
137.5°	2.5	1.2	0.0	31.1	62.3
140°	2.5	1.2	0.0	0.0	24.9
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)