

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: P289991

Luminaire Tested: **8SSRK-LW-12-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-LW-12-L950-CD1-U
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 90 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9430.7 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

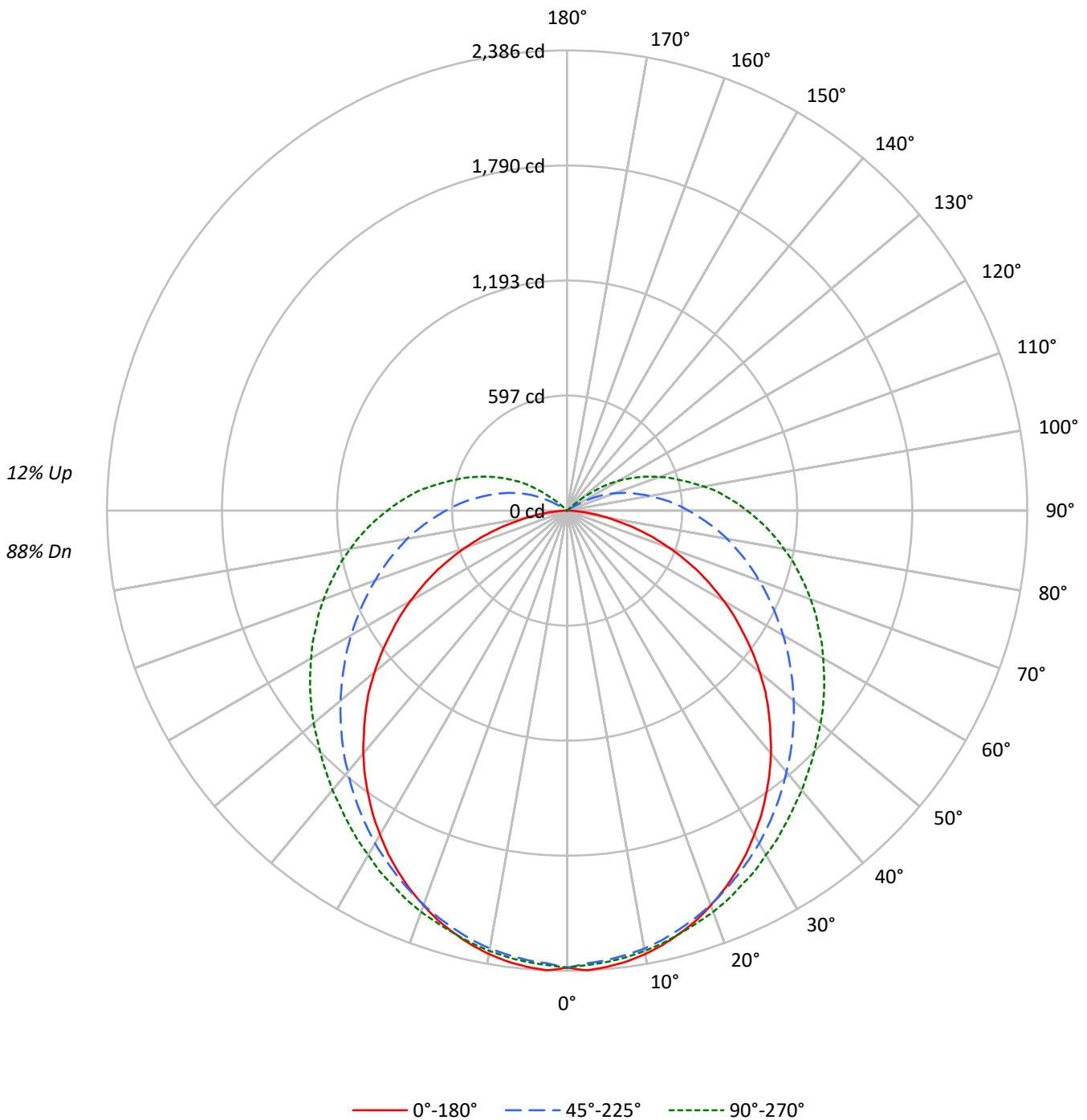
Input Watts (W): 80.8951
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	116	116	116	112	112	112	112	105	105	105		98	98	98		91	91	91	88
1	103	97	92	87	99	94	89	84	87	83	79		81	78	75		75	73	71	67
2	93	83	75	68	89	80	73	67	74	68	63		69	64	60		65	61	57	54
3	84	72	63	56	80	70	61	54	65	58	52		60	54	50		56	51	47	44
4	76	63	54	47	73	61	52	46	57	50	44		53	47	42		50	44	40	37
5	70	56	47	40	67	54	46	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		40	35	30	28
7	60	46	36	30	57	44	36	30	42	34	28		39	32	27		37	31	26	24
8	55	41	33	27	53	40	32	26	38	31	25		36	29	24		34	28	24	21
9	52	38	30	24	50	37	29	23	35	28	23		33	27	22		31	25	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°	76528	76528	76528
5°	76842	60742	56428
10°	76284	50371	44586
15°	75390	42652	36611
20°	74278	36738	30981
25°	73026	31990	26634
30°	71470	28122	23233
35°	69848	24828	20520
40°	68126	22025	18311
45°	66145	19643	16465
50°	63863	17554	14943
55°	61205	15714	13645
60°	58513	14093	12481
65°	55075	12644	11467
70°	50322	11355	10573
75°	44013	10194	9736
80°	35041	9152	8956
85°	22743	8094	8245



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.8	2.4
10°-20°	638.8	6.8
20°-30°	968.7	10.3
30°-40°	1182.2	12.5
40°-50°	1273.2	13.5
50°-60°	1250.5	13.3
60°-70°	1129.9	12.0
70°-80°	940.7	10.0
80°-90°	721.5	7.7
90°-100°	522.4	5.5
100°-110°	337.5	3.6
110°-120°	181.9	1.9
120°-130°	57.5	0.6
130°-140°	2.2	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°	1831.3	19.4
0°-40°	3013.5	32.0
0°-60°	5537.2	58.7
0°-90°	8329.3	88.3
90°-120°	1041.7	11.0
90°-150°	1101.4	11.7
90°-180°	1101.0	11.7
0°-180°	9430.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2370	2370	2370	2370	2370	
5°	2375	2366	2340	2358	2350	225
15°	2268	2263	2248	2273	2269	640
25°	2070	2072	2088	2133	2142	953
35°	1798	1821	1884	1958	1978	1125
45°	1479	1535	1653	1762	1803	1140
55°	1120	1230	1412	1570	1627	1003
65°	753	916	1174	1371	1437	743
75°	380	631	949	1168	1243	403
85°	76	386	732	960	1040	91
90°	2	290	628	854	931	4
95°	5	211	532	754	828	4
105°	5	75	347	542	610	5
115°	4	4	174	345	410	4
125°	2	1	1	138	197	2
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2369.9	2369.9	2369.9	2369.9	2369.9
2.5°	2386.1	2376.2	2350.0	2366.2	2358.7
5°	2374.9	2366.2	2340.0	2357.5	2350.0
7.5°	2358.7	2350.0	2325.0	2342.5	2336.3
10°	2335.0	2326.3	2306.3	2323.8	2318.8
12.5°	2305.1	2298.9	2280.2	2301.4	2296.4
15°	2267.7	2262.7	2247.8	2272.7	2268.9
17.5°	2227.8	2222.8	2214.1	2240.3	2241.5
20°	2177.9	2176.7	2175.4	2209.1	2214.1
22.5°	2126.8	2128.1	2133.1	2174.2	2181.7
25°	2069.5	2072.0	2088.2	2133.1	2141.8
27.5°	2008.4	2017.1	2040.8	2093.2	2106.9
30°	1939.8	1954.8	1992.2	2047.0	2062.0
32.5°	1872.5	1888.7	1938.6	2003.4	2023.3
35°	1797.7	1821.4	1883.7	1958.5	1978.5
37.5°	1722.9	1750.3	1827.6	1908.7	1933.6
40°	1644.4	1680.5	1769.0	1860.0	1892.4
42.5°	1559.6	1610.7	1712.9	1810.2	1846.3
45°	1478.6	1534.7	1653.1	1761.5	1802.7
47.5°	1395.0	1462.3	1593.2	1714.2	1757.8
50°	1302.8	1383.8	1533.4	1666.8	1715.4
52.5°	1213.0	1309.0	1473.6	1618.2	1671.8
55°	1119.5	1230.5	1412.5	1569.6	1626.9
57.5°	1032.2	1150.7	1353.9	1518.4	1579.5
60°	938.7	1073.4	1292.8	1471.1	1532.2
62.5°	844.0	996.1	1233.0	1420.0	1488.5
65°	753.0	916.3	1174.4	1371.3	1437.4
67.5°	655.7	844.0	1117.0	1319.0	1393.8
70°	563.5	769.2	1059.7	1269.1	1342.7
72.5°	471.2	696.9	1003.6	1219.2	1294.0
75°	380.2	630.8	948.7	1168.1	1242.9
77.5°	289.2	561.0	892.6	1117.0	1195.6
80°	210.7	499.9	842.8	1064.7	1140.7
82.5°	143.4	442.6	786.7	1014.8	1092.1
85°	76.0	386.5	731.8	959.9	1039.7
87.5°	22.4	336.6	678.2	906.3	986.1
90°	2.5	290.5	628.3	854.0	931.3
92.5°	3.7	250.6	580.9	806.6	881.4
95°	5.0	210.7	532.3	754.2	827.8
97.5°	5.0	175.8	482.5	700.6	779.2
100°	5.0	142.1	435.1	645.8	718.1
102.5°	5.0	111.0	390.2	590.9	662.0
105°	5.0	74.8	346.6	542.3	609.6
107.5°	5.0	37.4	304.2	494.9	561.0
110°	5.0	7.5	261.8	446.3	509.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.7	5.0	220.7	395.2	460.0
115°	3.7	3.7	174.5	345.3	410.2
117.5°	3.7	3.7	124.7	299.2	357.8
120°	3.7	2.5	72.3	250.6	309.2
122.5°	2.5	2.5	23.7	194.5	258.1
125°	2.5	1.2	1.2	138.4	197.0
127.5°	2.5	1.2	0.0	77.3	133.4
130°	2.5	1.2	0.0	22.4	76.0
132.5°	2.5	1.2	0.0	0.0	16.2
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)