

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: P289975

Luminaire Tested: **8SSRK-LW-80-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289975
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-80-L950-CD1-U
Description: 8000 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: 6921.2 lumens
Efficiency: N/A
Efficacy: 122.2 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

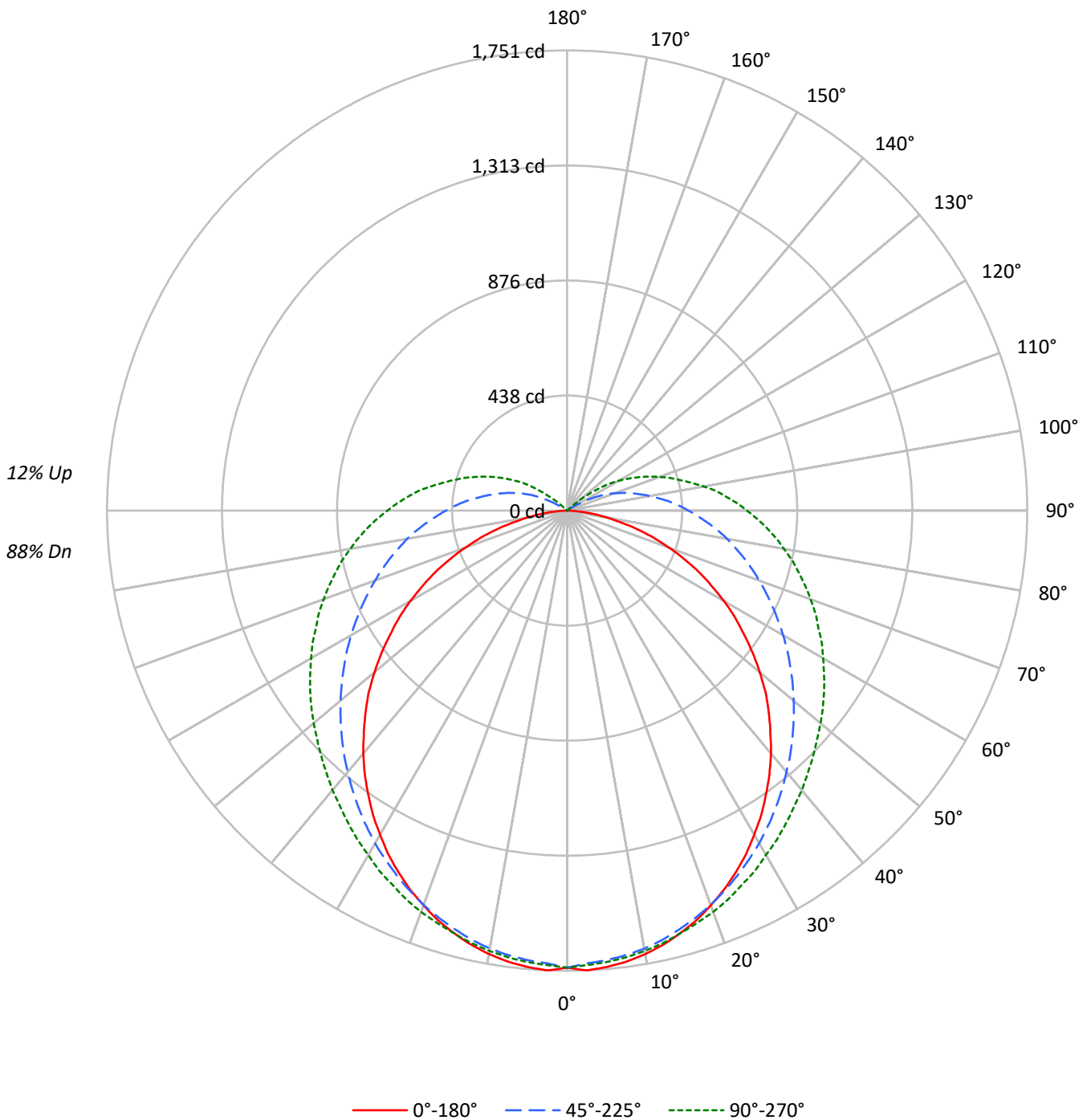
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	56165	56165	56165
5°	56393	44578	41411
10°	55986	36967	32722
15°	55330	31301	26870
20°	54514	26963	22736
25°	53594	23477	19547
30°	52451	20639	17050
35°	51260	18222	15060
40°	49997	16165	13439
45°	48542	14416	12084
50°	46868	12883	10966
55°	44918	11532	10014
60°	42942	10343	9160
65°	40417	9279	8415
70°	36927	8333	7760
75°	32310	7482	7145
80°	25711	6717	6573
85°	16698	5941	6052



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	2.4
10°-20°	468.8	6.8
20°-30°	710.9	10.3
30°-40°	867.6	12.5
40°-50°	934.4	13.5
50°-60°	917.7	13.3
60°-70°	829.2	12.0
70°-80°	690.4	10.0
80°-90°	529.5	7.7
90°-100°	383.4	5.5
100°-110°	247.7	3.6
110°-120°	133.5	1.9
120°-130°	42.2	0.6
130°-140°	1.6	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°	1344.0	19.4
0°-40°	2211.6	32.0
0°-60°	4063.7	58.7
0°-90°	6112.9	88.3
90°-120°	764.5	11.0
90°-150°	808.3	11.7
90°-180°	808.0	11.7
0°-180°	6921.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1739	1739	1739	1739	1739	
5°	1743	1736	1717	1730	1725	165
15°	1664	1661	1650	1668	1665	469
25°	1519	1521	1532	1565	1572	699
35°	1319	1337	1382	1437	1452	825
45°	1085	1126	1213	1293	1323	837
55°	822	903	1037	1152	1194	736
65°	553	672	862	1006	1055	545
75°	279	463	696	857	912	296
85°	56	284	537	704	763	67
90°	2	213	461	627	684	3
95°	4	155	391	554	608	3
105°	4	55	254	398	447	4
115°	3	3	128	253	301	3
125°	2	1	1	102	145	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°	1739.3	1739.3	1739.3	1739.3	1739.3
2.5°	1751.2	1743.9	1724.6	1736.5	1731.1
5°	1742.9	1736.5	1717.3	1730.1	1724.6
7.5°	1731.1	1724.6	1706.3	1719.2	1714.6
10°	1713.7	1707.3	1692.6	1705.4	1701.8
12.5°	1691.7	1687.1	1673.4	1689.0	1685.3
15°	1664.3	1660.6	1649.6	1667.9	1665.2
17.5°	1635.0	1631.3	1624.9	1644.1	1645.0
20°	1598.4	1597.5	1596.6	1621.3	1624.9
22.5°	1560.9	1561.8	1565.4	1595.6	1601.1
25°	1518.8	1520.6	1532.5	1565.4	1571.9
27.5°	1474.0	1480.4	1497.7	1536.2	1546.2
30°	1423.6	1434.6	1462.1	1502.3	1513.3
32.5°	1374.2	1386.1	1422.7	1470.3	1484.9
35°	1319.3	1336.7	1382.5	1437.4	1452.0
37.5°	1264.4	1284.6	1341.3	1400.8	1419.1
40°	1206.8	1233.3	1298.3	1365.1	1388.9
42.5°	1144.6	1182.1	1257.1	1328.5	1355.0
45°	1085.1	1126.3	1213.2	1292.8	1323.0
47.5°	1023.8	1073.2	1169.3	1258.0	1290.1
50°	956.1	1015.6	1125.4	1223.3	1258.9
52.5°	890.2	960.7	1081.4	1187.6	1226.9
55°	821.6	903.0	1036.6	1151.9	1194.0
57.5°	757.6	844.5	993.6	1114.4	1159.2
60°	688.9	787.8	948.8	1079.6	1124.5
62.5°	619.4	731.0	904.9	1042.1	1092.4
65°	552.6	672.5	861.9	1006.4	1054.9
67.5°	481.3	619.4	819.8	968.0	1022.9
70°	413.5	564.5	777.7	931.4	985.4
72.5°	345.8	511.4	736.5	894.8	949.7
75°	279.1	463.0	696.3	857.3	912.2
77.5°	212.3	411.7	655.1	819.8	877.4
80°	154.6	366.9	618.5	781.4	837.2
82.5°	105.2	324.8	577.3	744.8	801.5
85°	55.8	283.6	537.1	704.5	763.1
87.5°	16.5	247.0	497.7	665.2	723.7
90°	1.8	213.2	461.1	626.7	683.5
92.5°	2.7	183.9	426.4	592.0	646.9
95°	3.7	154.6	390.7	553.5	607.5
97.5°	3.7	129.0	354.1	514.2	571.8
100°	3.7	104.3	319.3	473.9	527.0
102.5°	3.7	81.4	286.4	433.7	485.8
105°	3.7	54.9	254.4	398.0	447.4
107.5°	3.7	27.4	223.2	363.2	411.7
110°	3.7	5.5	192.1	327.5	374.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	3.7	161.9	290.0	337.6
115°	2.7	2.7	128.1	253.4	301.0
117.5°	2.7	2.7	91.5	219.6	262.6
120°	2.7	1.8	53.1	183.9	226.9
122.5°	1.8	1.8	17.4	142.7	189.4
125°	1.8	0.9	0.9	101.6	144.6
127.5°	1.8	0.9	0.0	56.7	97.9
130°	1.8	0.9	0.0	16.5	55.8
132.5°	1.8	0.9	0.0	0.0	11.9
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)