

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: P289984

Luminaire Tested: **8SSRK-LW-10-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289984
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-10-L830-CD1-U
Description: 10000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 80 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9111.5 lumens
Efficiency: N/A
Efficacy: 126.7 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

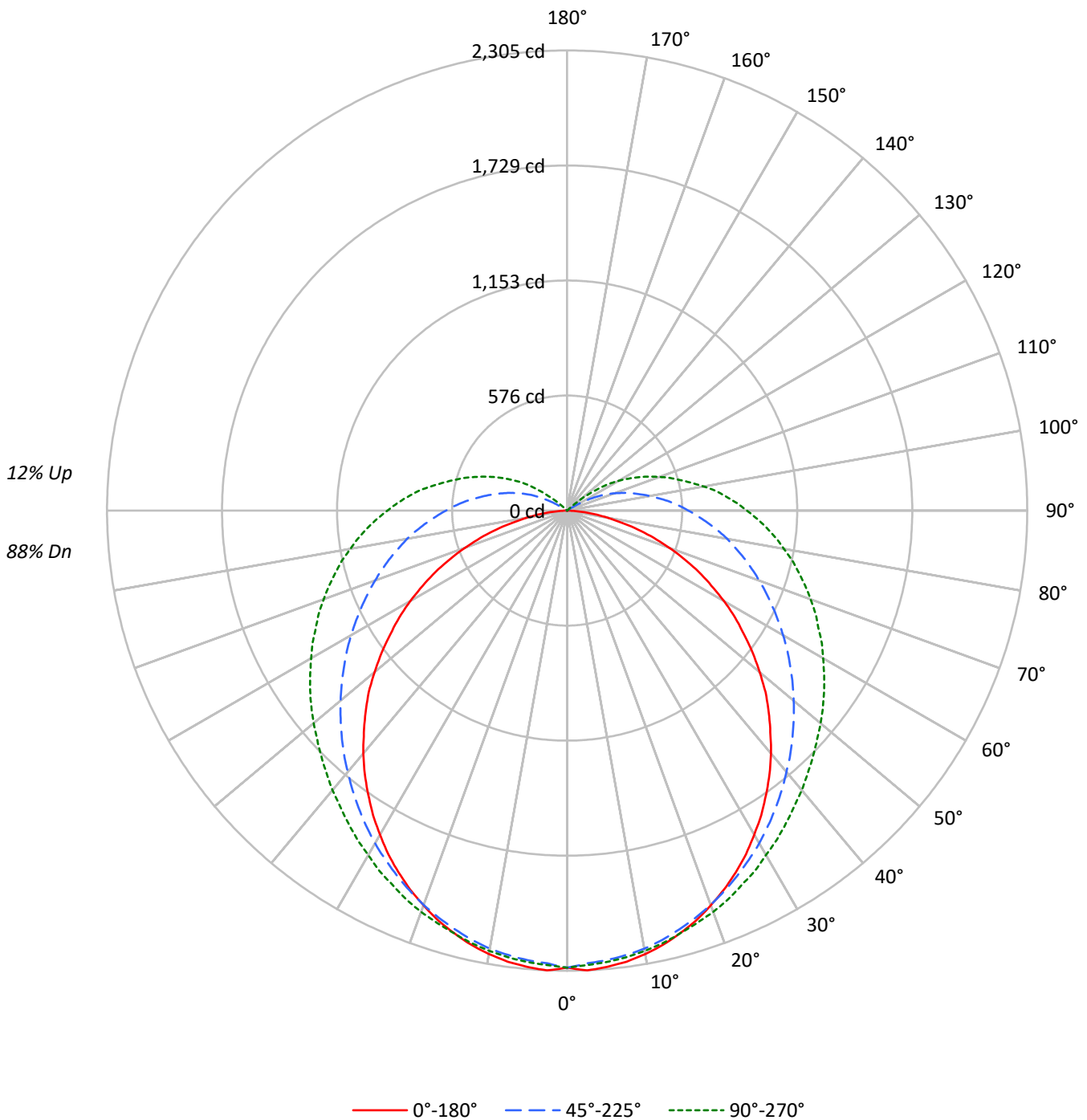
Input Watts (W): 71.9151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	73938	73938	73938
5°	74241	58686	54516
10°	73703	48667	43077
15°	72837	41208	35372
20°	71764	35495	29931
25°	70553	30907	25732
30°	69053	27170	22446
35°	67485	23989	19825
40°	65819	21279	17692
45°	63904	18978	15908
50°	61701	16960	14438
55°	59133	15183	13183
60°	56537	13615	12059
65°	53210	12215	11079
70°	48616	10970	10215
75°	42532	9849	9407
80°	33861	8842	8653
85°	21995	7820	7966



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.2	2.4
10°-20°	617.2	6.8
20°-30°	935.9	10.3
30°-40°	1142.2	12.5
40°-50°	1230.1	13.5
50°-60°	1208.2	13.3
60°-70°	1091.7	12.0
70°-80°	908.9	10.0
80°-90°	697.1	7.7
90°-100°	504.7	5.5
100°-110°	326.0	3.6
110°-120°	175.7	1.9
120°-130°	55.6	0.6
130°-140°	2.1	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°	1769.3	19.4
0°-40°	2911.5	32.0
0°-60°	5349.8	58.7
0°-90°	8047.4	88.3
90°-120°	1006.4	11.0
90°-150°	1064.1	11.7
90°-180°	1064.0	11.7
0°-180°	9111.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2290	2290	2290	2290	2290	
5°	2294	2286	2261	2278	2270	218
15°	2191	2186	2172	2196	2192	618
25°	1999	2002	2018	2061	2069	921
35°	1737	1760	1820	1892	1912	1087
45°	1428	1483	1597	1702	1742	1101
55°	1082	1189	1365	1516	1572	969
65°	728	885	1135	1325	1389	718
75°	367	610	917	1129	1201	389
85°	74	373	707	927	1004	88
90°	2	281	607	825	900	4
95°	5	204	514	729	800	4
105°	5	72	335	524	589	5
115°	4	4	169	334	396	4
125°	2	1	1	134	190	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°	2289.7	2289.7	2289.7	2289.7	2289.7
2.5°	2305.4	2295.7	2270.4	2286.1	2278.9
5°	2294.5	2286.1	2260.8	2277.7	2270.4
7.5°	2278.9	2270.4	2246.3	2263.2	2257.2
10°	2256.0	2247.5	2228.3	2245.1	2240.3
12.5°	2227.1	2221.1	2203.0	2223.5	2218.6
15°	2190.9	2186.1	2171.7	2195.8	2192.1
17.5°	2152.4	2147.6	2139.1	2164.4	2165.6
20°	2104.2	2103.0	2101.8	2134.3	2139.1
22.5°	2054.8	2056.0	2060.9	2100.6	2107.8
25°	1999.4	2001.8	2017.5	2060.9	2069.3
27.5°	1940.4	1948.8	1971.7	2022.3	2035.6
30°	1874.2	1888.6	1924.8	1977.7	1992.2
32.5°	1809.1	1824.8	1873.0	1935.6	1954.9
35°	1736.9	1759.7	1820.0	1892.2	1911.5
37.5°	1664.6	1691.1	1765.8	1844.1	1868.1
40°	1588.7	1623.6	1709.1	1797.1	1828.4
42.5°	1506.8	1556.2	1654.9	1748.9	1783.8
45°	1428.5	1482.7	1597.1	1701.9	1741.7
47.5°	1347.8	1412.8	1539.3	1656.2	1698.3
50°	1258.7	1337.0	1481.5	1610.4	1657.4
52.5°	1172.0	1264.7	1423.7	1563.4	1615.2
55°	1081.6	1188.8	1364.7	1516.4	1571.8
57.5°	997.3	1111.7	1308.1	1467.0	1526.1
60°	907.0	1037.1	1249.0	1421.3	1480.3
62.5°	815.4	962.4	1191.2	1371.9	1438.1
65°	727.5	885.3	1134.6	1324.9	1388.8
67.5°	633.6	815.4	1079.2	1274.3	1346.6
70°	544.4	743.2	1023.8	1226.2	1297.2
72.5°	455.3	673.3	969.6	1178.0	1250.2
75°	367.4	609.5	916.6	1128.6	1200.9
77.5°	279.4	542.0	862.4	1079.2	1155.1
80°	203.6	483.0	814.2	1028.6	1102.1
82.5°	138.5	427.6	760.0	980.4	1055.1
85°	73.5	373.4	707.0	927.4	1004.5
87.5°	21.7	325.2	655.2	875.7	952.7
90°	2.4	280.6	607.1	825.1	899.7
92.5°	3.6	242.1	561.3	779.3	851.6
95°	4.8	203.6	514.3	728.7	799.8
97.5°	4.8	169.8	466.1	676.9	752.8
100°	4.8	137.3	420.4	623.9	693.8
102.5°	4.8	107.2	377.0	570.9	639.6
105°	4.8	72.3	334.8	523.9	589.0
107.5°	4.8	36.1	293.9	478.2	542.0
110°	4.8	7.2	252.9	431.2	492.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.6	4.8	213.2	381.8	444.5
115°	3.6	3.6	168.6	333.6	396.3
117.5°	3.6	3.6	120.4	289.1	345.7
120°	3.6	2.4	69.9	242.1	298.7
122.5°	2.4	2.4	22.9	187.9	249.3
125°	2.4	1.2	1.2	133.7	190.3
127.5°	2.4	1.2	0.0	74.7	128.9
130°	2.4	1.2	0.0	21.7	73.5
132.5°	2.4	1.2	0.0	0.0	15.7
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)