

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: P289992

Luminaire Tested: **8SSRK-LW-12-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289992
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-L830-CD1-U
Description: 12000 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: 10117.9 lumens
Efficiency: N/A
Efficacy: 125.1 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

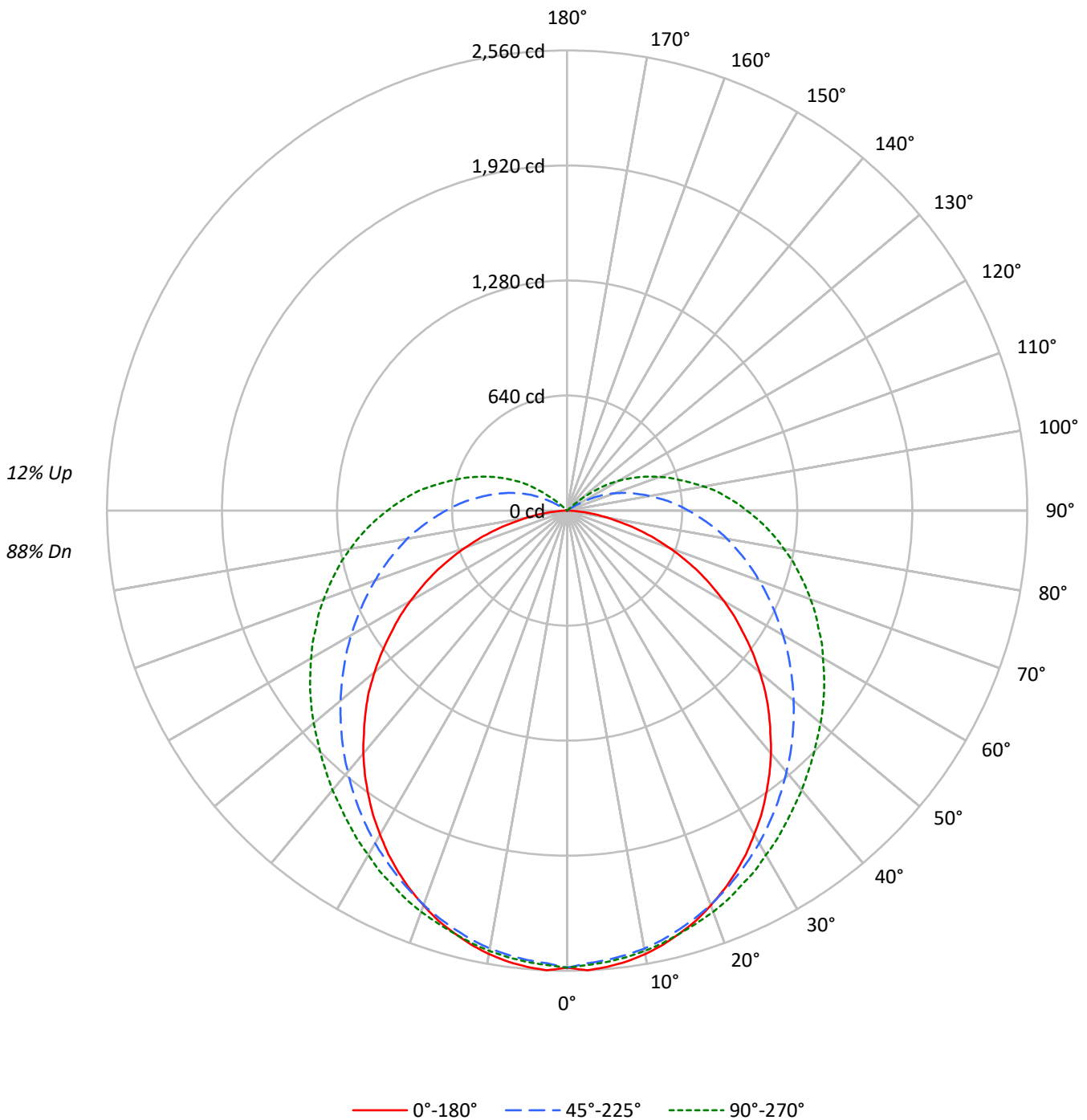
Input Watts (W): 80.8951
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	82104	82104	82104
5°	82443	65168	60539
10°	81844	54042	47835
15°	80882	45758	39280
20°	79690	39416	33238
25°	78348	34320	28574
30°	76679	30170	24925
35°	74937	26638	22015
40°	73090	23630	19646
45°	70963	21074	17664
50°	68515	18833	16032
55°	65666	16859	14640
60°	62776	15120	13390
65°	59090	13564	12302
70°	53992	12182	11343
75°	47220	10937	10445
80°	37586	9819	9608
85°	24418	8684	8846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.1	2.4
10°-20°	685.3	6.8
20°-30°	1039.2	10.3
30°-40°	1268.3	12.5
40°-50°	1366.0	13.5
50°-60°	1341.6	13.3
60°-70°	1212.2	12.0
70°-80°	1009.3	10.0
80°-90°	774.1	7.7
90°-100°	560.4	5.5
100°-110°	362.0	3.6
110°-120°	195.1	1.9
120°-130°	61.7	0.6
130°-140°	2.3	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°	1964.7	19.4
0°-40°	3233.0	32.0
0°-60°	5940.6	58.7
0°-90°	8936.2	88.3
90°-120°	1117.6	11.0
90°-150°	1181.7	11.7
90°-180°	1182.0	11.7
0°-180°	10117.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2543	2543	2543	2543	2543	
5°	2548	2539	2510	2529	2521	242
15°	2433	2428	2412	2438	2434	686
25°	2220	2223	2240	2288	2298	1022
35°	1929	1954	2021	2101	2123	1207
45°	1586	1646	1774	1890	1934	1223
55°	1201	1320	1515	1684	1746	1076
65°	808	983	1260	1471	1542	797
75°	408	677	1018	1253	1334	432
85°	82	415	785	1030	1116	98
90°	3	312	674	916	999	5
95°	5	226	571	809	888	4
105°	5	80	372	582	654	6
115°	4	4	187	370	440	4
125°	3	1	1	148	211	3
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



TEST NUMBER: P289992

CATALOG NUMBER: 8SSRK-LW-12-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2542.6	2542.6	2542.6	2542.6	2542.6
2.5°	2560.0	2549.3	2521.2	2538.6	2530.6
5°	2548.0	2538.6	2510.5	2529.2	2521.2
7.5°	2530.6	2521.2	2494.5	2513.2	2506.5
10°	2505.2	2495.8	2474.4	2493.1	2487.8
12.5°	2473.1	2466.4	2446.3	2469.0	2463.7
15°	2432.9	2427.6	2411.5	2438.3	2434.3
17.5°	2390.1	2384.8	2375.4	2403.5	2404.8
20°	2336.6	2335.3	2334.0	2370.1	2375.4
22.5°	2281.8	2283.1	2288.5	2332.6	2340.6
25°	2220.3	2222.9	2240.3	2288.5	2297.8
27.5°	2154.7	2164.1	2189.5	2245.7	2260.4
30°	2081.2	2097.2	2137.3	2196.2	2212.2
32.5°	2008.9	2026.3	2079.8	2149.4	2170.8
35°	1928.7	1954.1	2021.0	2101.2	2122.6
37.5°	1848.4	1877.9	1960.8	2047.7	2074.5
40°	1764.2	1803.0	1897.9	1995.6	2030.3
42.5°	1673.2	1728.1	1837.7	1942.1	1980.9
45°	1586.3	1646.5	1773.5	1889.9	1934.0
47.5°	1496.7	1568.9	1709.3	1839.1	1885.9
50°	1397.7	1484.6	1645.1	1788.3	1840.4
52.5°	1301.4	1404.4	1580.9	1736.1	1793.6
55°	1201.1	1320.1	1515.4	1683.9	1745.5
57.5°	1107.5	1234.5	1452.5	1629.1	1694.6
60°	1007.1	1151.6	1387.0	1578.3	1643.8
62.5°	905.5	1068.7	1322.8	1523.4	1597.0
65°	807.9	983.1	1259.9	1471.3	1542.1
67.5°	703.5	905.5	1198.4	1415.1	1495.3
70°	604.6	825.2	1136.9	1361.6	1440.5
72.5°	505.6	747.7	1076.7	1308.1	1388.3
75°	407.9	676.8	1017.8	1253.2	1333.5
77.5°	310.3	601.9	957.7	1198.4	1282.7
80°	226.0	536.3	904.2	1142.2	1223.8
82.5°	153.8	474.8	844.0	1088.7	1171.7
85°	81.6	414.6	785.1	1029.9	1115.5
87.5°	24.1	361.1	727.6	972.4	1058.0
90°	2.7	311.6	674.1	916.2	999.1
92.5°	4.0	268.8	623.3	865.4	945.6
95°	5.4	226.0	571.1	809.2	888.1
97.5°	5.4	188.6	517.6	751.7	835.9
100°	5.4	152.5	466.8	692.8	770.4
102.5°	5.4	119.0	418.6	634.0	710.2
105°	5.4	80.3	371.8	581.8	654.0
107.5°	5.4	40.1	326.4	531.0	601.9
110°	5.4	8.0	280.9	478.8	547.0



TEST NUMBER: P289992

CATALOG NUMBER: 8SSRK-LW-12-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.0	5.4	236.7	424.0	493.5
115°	4.0	4.0	187.3	370.5	440.0
117.5°	4.0	4.0	133.8	321.0	383.9
120°	4.0	2.7	77.6	268.8	331.7
122.5°	2.7	2.7	25.4	208.7	276.9
125°	2.7	1.3	1.3	148.5	211.3
127.5°	2.7	1.3	0.0	82.9	143.1
130°	2.7	1.3	0.0	24.1	81.6
132.5°	2.7	1.3	0.0	0.0	17.4
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)