

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: P289971

Luminaire Tested: **8SSRK-LW-60-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289971
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-60-L850-CD1-U
Description: 6000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 80 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5619.3 lumens
Efficiency: N/A
Efficacy: 135.8 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

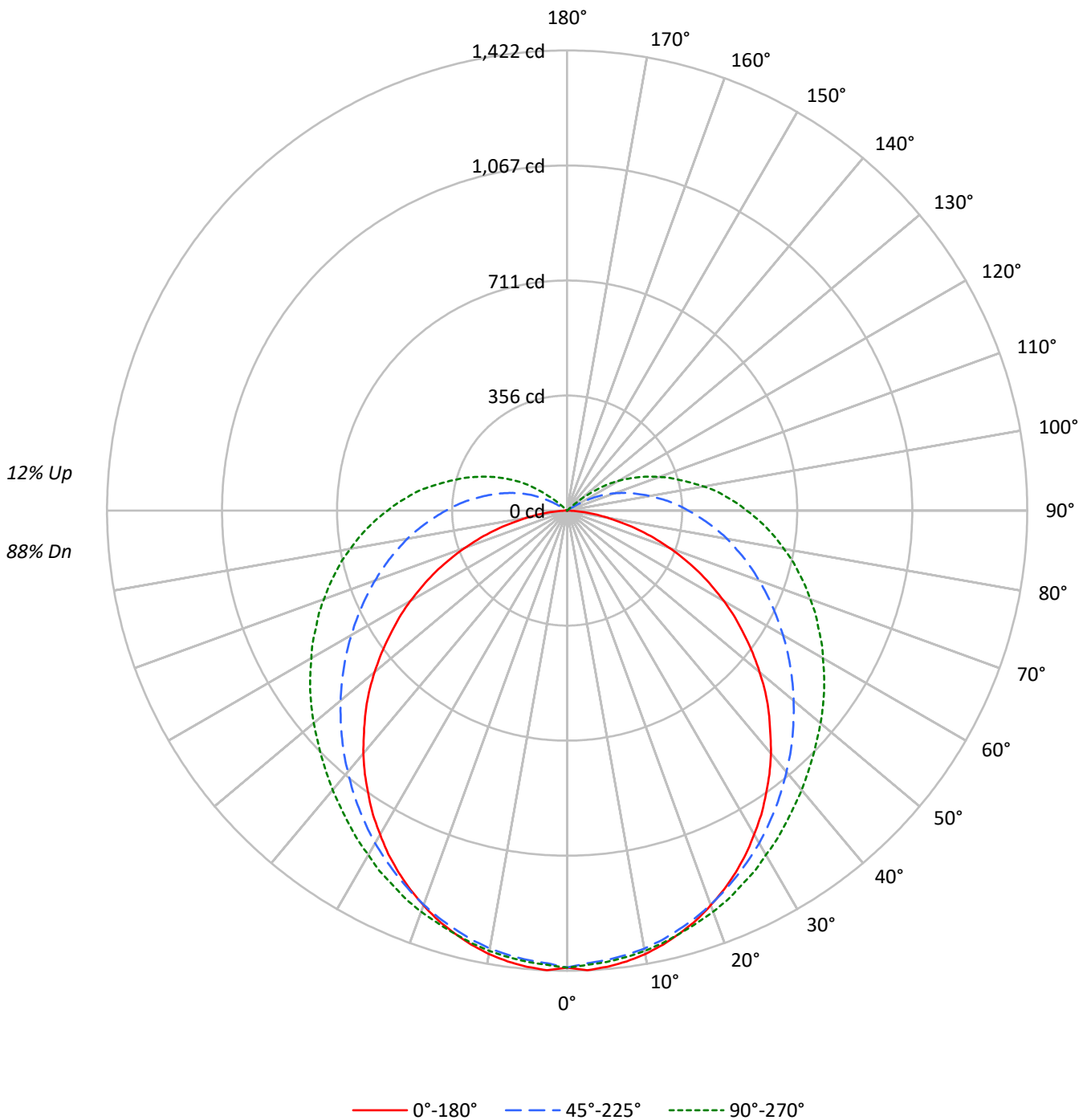
Input Watts (W): 41.3831
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	45599	45599	45599
5°	45787	36193	33621
10°	45453	30013	26567
15°	44921	25413	21816
20°	44258	21890	18460
25°	43512	19060	15870
30°	42588	16757	13844
35°	41620	14794	12227
40°	40592	13124	10911
45°	39412	11705	9810
50°	38054	10460	8904
55°	36472	9363	8130
60°	34869	8397	7437
65°	32818	7534	6833
70°	29988	6765	6300
75°	26232	6075	5801
80°	20872	5454	5337
85°	13556	4822	4913



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	2.4
10°-20°	380.6	6.8
20°-30°	577.2	10.3
30°-40°	704.4	12.5
40°-50°	758.6	13.5
50°-60°	745.1	13.3
60°-70°	673.3	12.0
70°-80°	560.5	10.0
80°-90°	429.9	7.7
90°-100°	311.3	5.5
100°-110°	201.1	3.6
110°-120°	108.4	1.9
120°-130°	34.3	0.6
130°-140°	1.3	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°	1091.2	19.4
0°-40°	1795.6	32.0
0°-60°	3299.3	58.7
0°-90°	4963.0	88.3
90°-120°	620.7	11.0
90°-150°	656.3	11.7
90°-180°	656.0	11.7
0°-180°	5619.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1412	1412	1412	1412	1412	
5°	1415	1410	1394	1405	1400	134
15°	1351	1348	1339	1354	1352	381
25°	1233	1235	1244	1271	1276	568
35°	1071	1085	1122	1167	1179	670
45°	881	914	985	1050	1074	679
55°	667	733	842	935	969	598
65°	449	546	700	817	856	443
75°	227	376	565	696	741	240
85°	45	230	436	572	620	54
90°	2	173	374	509	555	3
95°	3	126	317	449	493	2
105°	3	45	206	323	363	3
115°	2	2	104	206	244	2
125°	2	1	1	82	117	1
135°	0	0	0	0	0	0
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°	1412.1	1412.1	1412.1	1412.1	1412.1
2.5°	1421.8	1415.8	1400.2	1409.9	1405.4
5°	1415.1	1409.9	1394.3	1404.7	1400.2
7.5°	1405.4	1400.2	1385.4	1395.8	1392.1
10°	1391.3	1386.1	1374.2	1384.6	1381.7
12.5°	1373.5	1369.8	1358.6	1371.3	1368.3
15°	1351.2	1348.2	1339.3	1354.2	1352.0
17.5°	1327.4	1324.5	1319.3	1334.9	1335.6
20°	1297.7	1297.0	1296.2	1316.3	1319.3
22.5°	1267.3	1268.0	1271.0	1295.5	1300.0
25°	1233.1	1234.6	1244.2	1271.0	1276.2
27.5°	1196.7	1201.9	1216.0	1247.2	1255.4
30°	1155.9	1164.8	1187.1	1219.7	1228.7
32.5°	1115.7	1125.4	1155.1	1193.7	1205.6
35°	1071.2	1085.3	1122.4	1167.0	1178.9
37.5°	1026.6	1042.9	1089.0	1137.3	1152.1
40°	979.8	1001.3	1054.1	1108.3	1127.6
42.5°	929.3	959.7	1020.7	1078.6	1100.1
45°	881.0	914.4	985.0	1049.6	1074.1
47.5°	831.2	871.3	949.3	1021.4	1047.4
50°	776.3	824.5	913.7	993.2	1022.1
52.5°	722.8	780.0	878.0	964.2	996.1
55°	667.1	733.2	841.6	935.2	969.4
57.5°	615.1	685.6	806.7	904.8	941.2
60°	559.4	639.6	770.3	876.5	912.9
62.5°	502.9	593.5	734.7	846.1	886.9
65°	448.7	546.0	699.8	817.1	856.5
67.5°	390.7	502.9	665.6	785.9	830.5
70°	335.8	458.3	631.4	756.2	800.0
72.5°	280.8	415.2	598.0	726.5	771.1
75°	226.6	375.9	565.3	696.0	740.6
77.5°	172.3	334.3	531.9	665.6	712.4
80°	125.5	297.9	502.2	634.4	679.7
82.5°	85.4	263.7	468.7	604.7	650.7
85°	45.3	230.3	436.0	572.0	619.5
87.5°	13.4	200.6	404.1	540.0	587.6
90°	1.5	173.1	374.4	508.8	554.9
92.5°	2.2	149.3	346.2	480.6	525.2
95°	3.0	125.5	317.2	449.4	493.2
97.5°	3.0	104.7	287.5	417.5	464.3
100°	3.0	84.7	259.2	384.8	427.9
102.5°	3.0	66.1	232.5	352.1	394.4
105°	3.0	44.6	206.5	323.1	363.2
107.5°	3.0	22.3	181.3	294.9	334.3
110°	3.0	4.5	156.0	265.9	303.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	3.0	131.5	235.5	274.1
115°	2.2	2.2	104.0	205.8	244.4
117.5°	2.2	2.2	74.3	178.3	213.2
120°	2.2	1.5	43.1	149.3	184.2
122.5°	1.5	1.5	14.1	115.9	153.8
125°	1.5	0.7	0.7	82.5	117.4
127.5°	1.5	0.7	0.0	46.1	79.5
130°	1.5	0.7	0.0	13.4	45.3
132.5°	1.5	0.7	0.0	0.0	9.7
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)