

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: P289968

Luminaire Tested: **8SSRK-LW-60-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289968  
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-L830-CD1-U  
Description: 6000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 80 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

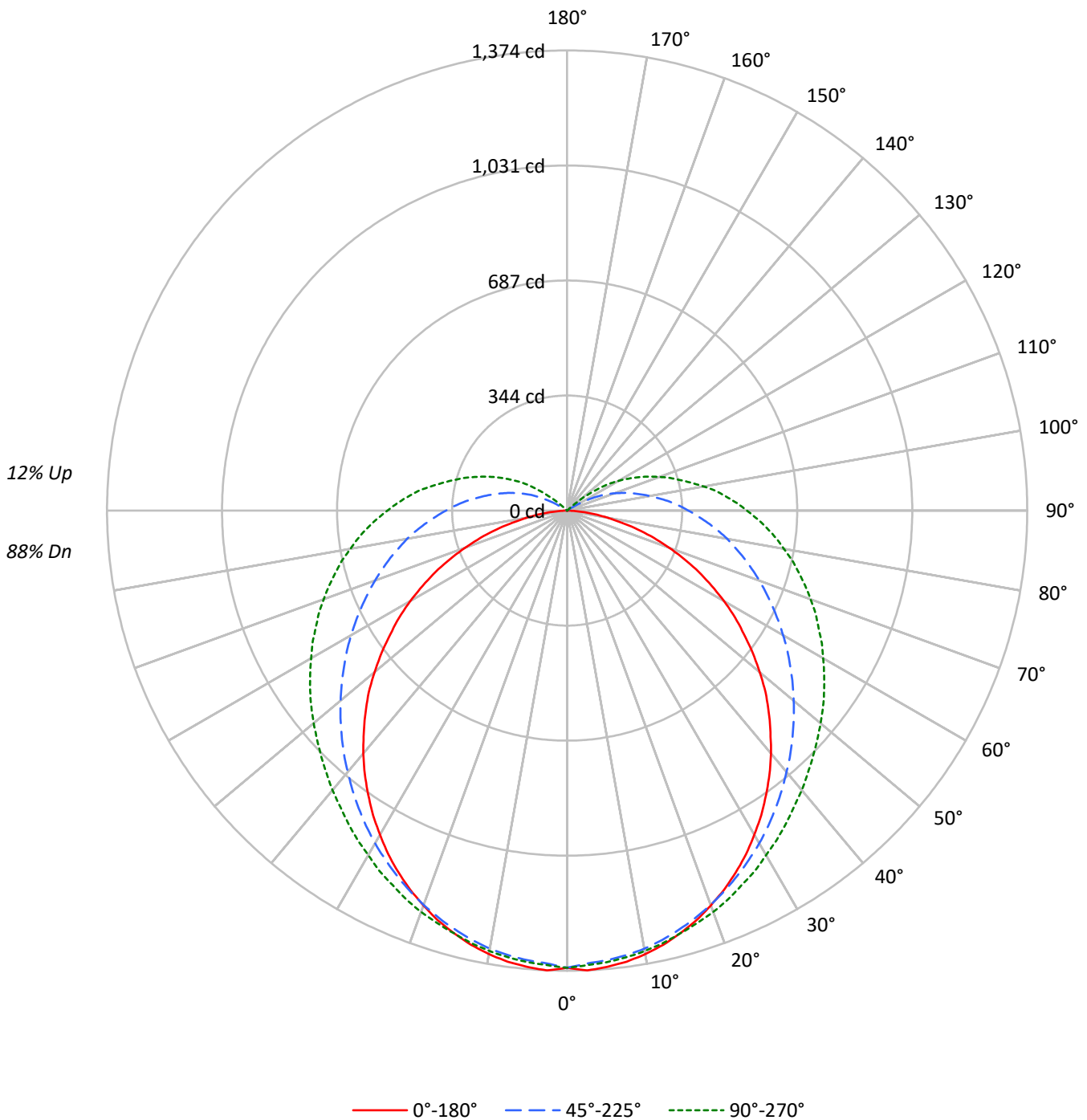
Lumens per Lamp: N/A  
Luminaire Lumens: 5431.9 lumens  
Efficiency: N/A  
Efficacy: 131.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 41.3831  
Input Voltage (V): NR  
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	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°	44078	44078	44078
5°	44260	34986	32500
10°	43937	29013	25681
15°	43425	24567	21088
20°	42785	21161	17845
25°	42062	18426	15340
30°	41166	16198	13382
35°	40229	14301	11820
40°	39238	12686	10547
45°	38096	11315	9483
50°	36784	10111	8607
55°	35252	9051	7859
60°	33704	8117	7189
65°	31721	7282	6605
70°	28988	6540	6090
75°	25352	5871	5608
80°	20190	5271	5158
85°	13107	4662	4749



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.9	2.4
10°-20°	367.9	6.8
20°-30°	557.9	10.3
30°-40°	680.9	12.5
40°-50°	733.3	13.5
50°-60°	720.3	13.3
60°-70°	650.8	12.0
70°-80°	541.8	10.0
80°-90°	415.6	7.7
90°-100°	300.9	5.5
100°-110°	194.4	3.6
110°-120°	104.8	1.9
120°-130°	33.1	0.6
130°-140°	1.2	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°	1054.8	19.4
0°-40°	1735.7	32.0
0°-60°	3189.3	58.7
0°-90°	4797.5	88.3
90°-120°	600.0	11.0
90°-150°	634.4	11.7
90°-180°	634.0	11.7
0°-180°	5431.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1365	1365	1365	1365	1365	
5°	1368	1363	1348	1358	1354	130
15°	1306	1303	1295	1309	1307	368
25°	1192	1193	1203	1229	1234	549
35°	1035	1049	1085	1128	1140	648
45°	852	884	952	1015	1038	657
55°	645	709	814	904	937	578
65°	434	528	676	790	828	428
75°	219	363	546	673	716	232
85°	44	223	422	553	599	53
90°	1	167	362	492	536	2
95°	3	121	307	434	477	2
105°	3	43	200	312	351	3
115°	2	2	100	199	236	2
125°	1	1	1	80	114	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°	1365.0	1365.0	1365.0	1365.0	1365.0
2.5°	1374.4	1368.6	1353.5	1362.9	1358.6
5°	1367.9	1362.9	1347.8	1357.9	1353.5
7.5°	1358.6	1353.5	1339.2	1349.2	1345.6
10°	1344.9	1339.9	1328.4	1338.5	1335.6
12.5°	1327.7	1324.1	1313.3	1325.5	1322.7
15°	1306.2	1303.3	1294.7	1309.0	1306.9
17.5°	1283.2	1280.3	1275.3	1290.4	1291.1
20°	1254.5	1253.7	1253.0	1272.4	1275.3
22.5°	1225.0	1225.7	1228.6	1252.3	1256.6
25°	1192.0	1193.4	1202.8	1228.6	1233.6
27.5°	1156.8	1161.8	1175.5	1205.6	1213.5
30°	1117.3	1125.9	1147.5	1179.1	1187.7
32.5°	1078.5	1087.9	1116.6	1153.9	1165.4
35°	1035.4	1049.1	1085.0	1128.1	1139.6
37.5°	992.4	1008.2	1052.7	1099.4	1113.7
40°	947.1	967.9	1018.9	1071.3	1090.0
42.5°	898.3	927.7	986.6	1042.6	1063.5
45°	851.6	883.9	952.2	1014.6	1038.3
47.5°	803.5	842.3	917.7	987.3	1012.5
50°	750.4	797.0	883.2	960.0	988.1
52.5°	698.7	754.0	848.7	932.0	962.9
55°	644.8	708.7	813.6	904.0	937.1
57.5°	594.6	662.8	779.8	874.6	909.8
60°	540.7	618.3	744.6	847.3	882.5
62.5°	486.1	573.7	710.2	817.9	857.4
65°	433.7	527.8	676.4	789.9	827.9
67.5°	377.7	486.1	643.4	759.7	802.8
70°	324.6	443.0	610.4	731.0	773.4
72.5°	271.4	401.4	578.0	702.3	745.3
75°	219.0	363.3	546.4	672.8	715.9
77.5°	166.6	323.1	514.1	643.4	688.6
80°	121.4	287.9	485.4	613.2	657.0
82.5°	82.6	254.9	453.1	584.5	629.0
85°	43.8	222.6	421.5	552.9	598.9
87.5°	12.9	193.9	390.6	522.0	568.0
90°	1.4	167.3	361.9	491.9	536.4
92.5°	2.2	144.3	334.6	464.6	507.7
95°	2.9	121.4	306.6	434.4	476.8
97.5°	2.9	101.2	277.9	403.6	448.8
100°	2.9	81.9	250.6	372.0	413.6
102.5°	2.9	63.9	224.8	340.4	381.3
105°	2.9	43.1	199.6	312.4	351.1
107.5°	2.9	21.5	175.2	285.1	323.1
110°	2.9	4.3	150.8	257.1	293.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	2.9	127.1	227.6	265.0
115°	2.2	2.2	100.5	198.9	236.2
117.5°	2.2	2.2	71.8	172.3	206.1
120°	2.2	1.4	41.6	144.3	178.1
122.5°	1.4	1.4	13.6	112.0	148.6
125°	1.4	0.7	0.7	79.7	113.5
127.5°	1.4	0.7	0.0	44.5	76.8
130°	1.4	0.7	0.0	12.9	43.8
132.5°	1.4	0.7	0.0	0.0	9.3
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)