

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: P289936

Luminaire Tested: **4SSRK-LW-60-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289936  
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: 4SSRK-LW-60-L830-CD1-U  
Description: 6000 LUMEN, 4 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: 5477.0 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct

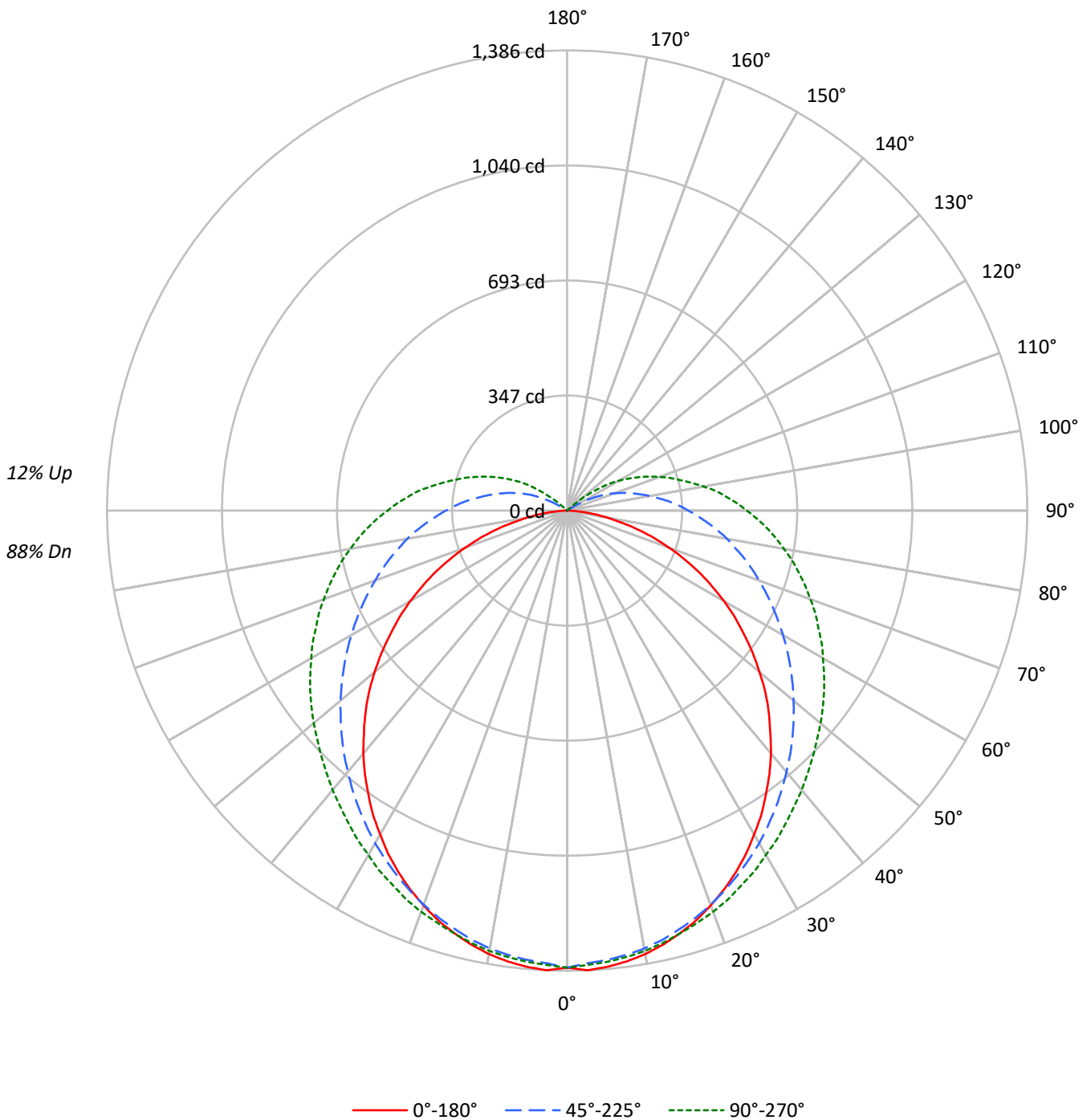
Input Watts (W): 44.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	88892	88892	88892
5°	89095	70481	65543
10°	88283	58405	51789
15°	87084	49429	42525
20°	85635	42560	35986
25°	84014	37046	30936
30°	82041	32559	26985
35°	79977	28740	23834
40°	77793	25490	21270
45°	75291	22730	19124
50°	72422	20307	17358
55°	69099	18177	15850
60°	65681	16299	14497
65°	61345	14620	13319
70°	55455	13128	12281
75°	47682	11786	11309
80°	36822	10578	10403
85°	22186	9355	9577



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.0	2.4
10°-20°	371.0	6.8
20°-30°	562.6	10.3
30°-40°	686.6	12.5
40°-50°	739.4	13.5
50°-60°	726.2	13.3
60°-70°	656.2	12.0
70°-80°	546.3	10.0
80°-90°	419.0	7.7
90°-100°	303.4	5.5
100°-110°	196.0	3.6
110°-120°	105.6	1.9
120°-130°	33.4	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°	1063.5	19.4
0°-40°	1750.1	32.0
0°-60°	3215.8	58.7
0°-90°	4837.4	88.3
90°-120°	605.0	11.0
90°-150°	639.7	11.7
90°-180°	640.0	11.7
0°-180°	5477.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1376	1376	1376	1376	1376	
5°	1379	1374	1359	1369	1365	131
15°	1317	1314	1305	1320	1318	371
25°	1202	1203	1213	1239	1244	553
35°	1044	1058	1094	1137	1149	653
45°	859	891	960	1023	1047	662
55°	650	715	820	912	945	582
65°	437	532	682	796	835	432
75°	221	366	551	678	722	234
85°	44	224	425	558	604	53
90°	1	169	365	496	541	2
95°	3	122	309	438	481	2
105°	3	43	201	315	354	3
115°	2	2	101	201	238	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°	1376.4	1376.4	1376.4	1376.4	1376.4
2.5°	1385.8	1380.0	1364.8	1374.2	1369.9
5°	1379.3	1374.2	1359.0	1369.1	1364.8
7.5°	1369.9	1364.8	1350.3	1360.4	1356.8
10°	1356.1	1351.0	1339.4	1349.6	1346.7
12.5°	1338.7	1335.1	1324.2	1336.5	1333.7
15°	1317.0	1314.1	1305.4	1319.9	1317.7
17.5°	1293.8	1290.9	1285.9	1301.1	1301.8
20°	1264.9	1264.1	1263.4	1283.0	1285.9
22.5°	1235.2	1235.9	1238.8	1262.7	1267.0
25°	1201.9	1203.3	1212.7	1238.8	1243.9
27.5°	1166.4	1171.5	1185.2	1215.6	1223.6
30°	1126.6	1135.3	1157.0	1188.8	1197.5
32.5°	1087.5	1096.9	1125.9	1163.5	1175.1
35°	1044.0	1057.8	1094.0	1137.4	1149.0
37.5°	1000.6	1016.5	1061.4	1108.5	1123.0
40°	955.0	976.0	1027.4	1080.2	1099.1
42.5°	905.8	935.4	994.8	1051.3	1072.3
45°	858.7	891.3	960.1	1023.0	1046.9
47.5°	810.2	849.3	925.3	995.5	1020.9
50°	756.6	803.7	890.5	968.0	996.3
52.5°	704.5	760.2	855.8	939.8	970.9
55°	650.2	714.6	820.3	911.5	944.9
57.5°	599.5	668.3	786.3	881.9	917.3
60°	545.2	623.4	750.8	854.3	889.8
62.5°	490.2	578.5	716.1	824.7	864.5
65°	437.3	532.2	682.0	796.4	834.8
67.5°	380.8	490.2	648.7	766.0	809.5
70°	327.3	446.7	615.4	737.1	779.8
72.5°	273.7	404.7	582.8	708.1	751.5
75°	220.8	366.4	551.0	678.4	721.9
77.5°	168.0	325.8	518.4	648.7	694.3
80°	122.4	290.3	489.4	618.3	662.5
82.5°	83.3	257.0	456.9	589.4	634.2
85°	44.2	224.4	425.0	557.5	603.8
87.5°	13.0	195.5	393.9	526.4	572.7
90°	1.4	168.7	364.9	496.0	540.8
92.5°	2.2	145.5	337.4	468.4	511.9
95°	2.9	122.4	309.2	438.0	480.8
97.5°	2.9	102.1	280.2	406.9	452.5
100°	2.9	82.5	252.7	375.0	417.0
102.5°	2.9	64.4	226.6	343.2	384.5
105°	2.9	43.4	201.3	315.0	354.0
107.5°	2.9	21.7	176.7	287.4	325.8
110°	2.9	4.3	152.0	259.2	296.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	2.9	128.2	229.5	267.2
115°	2.2	2.2	101.4	200.6	238.2
117.5°	2.2	2.2	72.4	173.8	207.8
120°	2.2	1.4	42.0	145.5	179.6
122.5°	1.4	1.4	13.8	112.9	149.9
125°	1.4	0.7	0.7	80.4	114.4
127.5°	1.4	0.7	0.0	44.9	77.5
130°	1.4	0.7	0.0	13.0	44.2
132.5°	1.4	0.7	0.0	0.0	9.4
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)