

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: P290363

Luminaire Tested: **4SSRK-SLN-30-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290363  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-15)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SSRK-SLN-30-L850-CD1-U  
Description: 3000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 80 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3215.6 lumens  
Efficiency: N/A  
Efficacy: 157.6 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

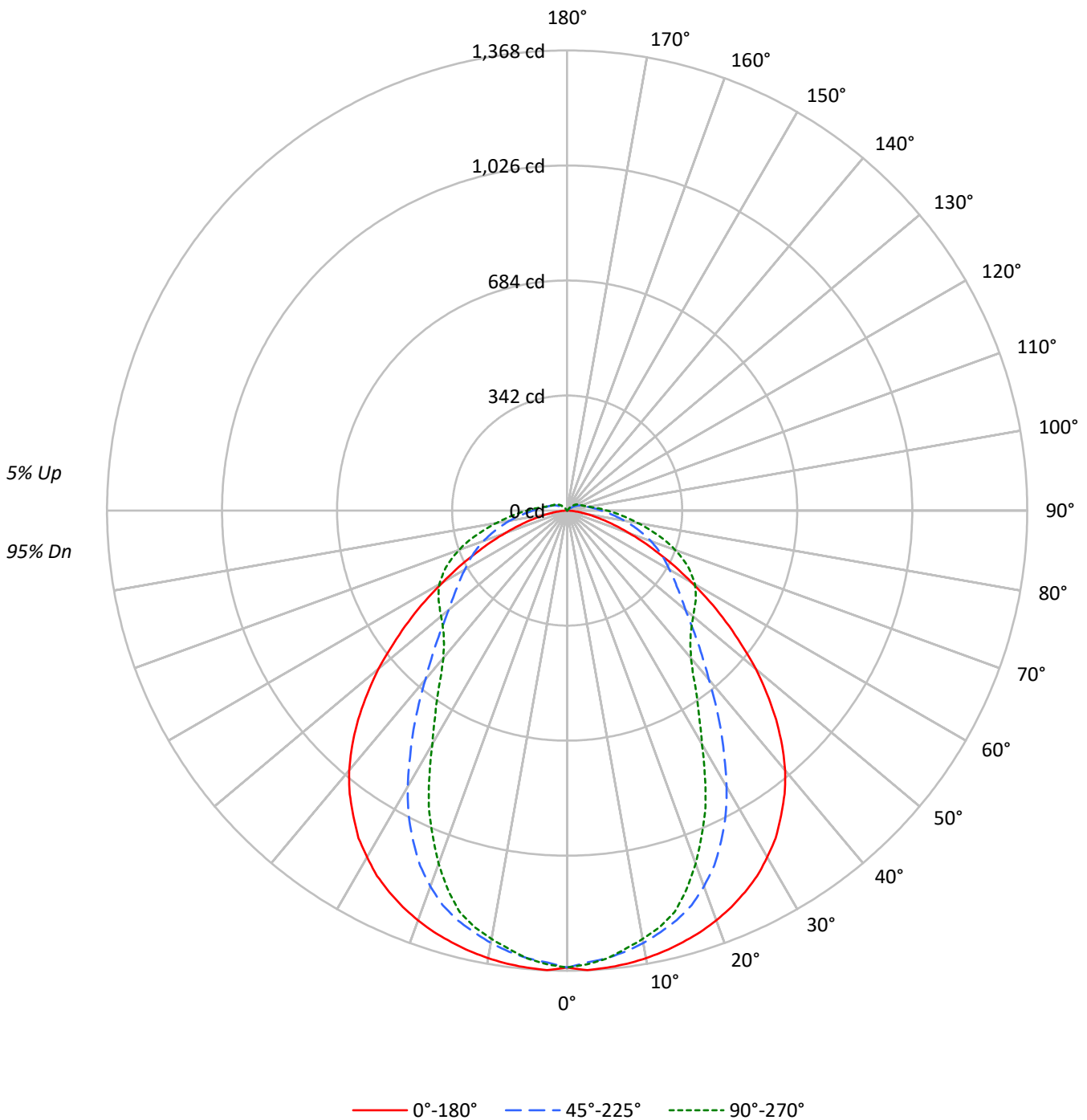
Input Watts (W): 20.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	95
1	107	102	98	94	104	100	96	92	94	91	88	90	87	85	85	83	81	79
2	98	90	83	77	95	87	81	76	83	78	73	79	75	71	75	72	69	66
3	90	79	71	65	87	77	70	64	74	67	62	70	65	60	67	63	59	56
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	49
5	76	64	55	48	74	62	54	48	60	52	47	57	51	46	55	49	45	43
6	71	58	49	43	68	56	48	42	54	47	42	52	46	41	50	45	40	38
7	66	53	44	38	64	52	44	38	50	42	37	48	41	37	46	40	36	34
8	61	48	40	34	60	47	40	34	46	39	34	44	38	33	43	37	33	31
9	57	44	37	31	56	44	36	31	42	35	31	41	35	30	40	34	30	28
10	54	41	34	28	53	41	33	28	39	33	28	38	32	28	37	31	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	87717	87717	87717
5°	88119	69304	64227
10°	87964	56927	49731
15°	87844	47714	39863
20°	87754	40047	31262
25°	87460	33115	24199
30°	86651	26681	18057
35°	84895	20925	13925
40°	82160	16268	11079
45°	77036	12919	9481
50°	70125	10472	8525
55°	61235	8857	7827
60°	51465	7628	7147
65°	41958	6626	6336
70°	33243	5642	5377
75°	25115	4657	4341
80°	17538	3733	3354
85°	10240	2919	2552



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.5	4.0
10°-20°	357.5	11.1
20°-30°	502.7	15.6
30°-40°	526.5	16.4
40°-50°	476.6	14.8
50°-60°	405.7	12.6
60°-70°	320.8	10.0
70°-80°	218.4	6.8
80°-90°	124.6	3.9
90°-100°	69.1	2.1
100°-110°	42.2	1.3
110°-120°	25.7	0.8
120°-130°	13.9	0.4
130°-140°	4.2	0.1
140°-150°	0.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	987.8	30.7
0°-40°	1514.3	47.1
0°-60°	2396.6	74.5
0°-90°	3060.4	95.2
90°-120°	137.0	4.3
90°-150°	155.2	4.8
90°-180°	155.0	4.8
0°-180°	3215.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1358	1358	1358	1358	1358	
5°	1364	1356	1336	1342	1337	130
15°	1328	1303	1260	1247	1235	375
25°	1251	1189	1084	1000	973	576
35°	1108	983	796	697	671	692
45°	879	698	546	517	519	675
55°	576	440	400	446	467	515
65°	299	260	309	377	397	301
75°	116	142	218	268	277	127
85°	20	67	133	159	161	25
90°	0	47	101	118	118	1
95°	1	36	80	88	88	1
105°	1	22	54	56	54	1
115°	1	3	36	42	41	1
125°	0	1	16	29	31	0
135°	1	1	1	12	16	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°	1358.2	1358.2	1358.2	1358.2	1358.2
2.5°	1367.5	1360.1	1344.5	1354.5	1350.0
5°	1364.2	1355.6	1336.3	1342.2	1337.4
7.5°	1359.0	1347.4	1322.5	1324.4	1315.1
10°	1351.2	1336.3	1305.5	1302.1	1293.2
12.5°	1341.1	1320.7	1283.5	1279.1	1268.7
15°	1328.5	1303.2	1260.1	1247.1	1235.2
17.5°	1314.4	1282.4	1230.0	1201.1	1180.6
20°	1296.2	1255.7	1188.8	1146.8	1117.1
22.5°	1275.7	1226.7	1142.4	1079.2	1045.4
25°	1251.2	1189.2	1084.0	1000.1	973.0
27.5°	1224.1	1150.2	1020.5	922.4	886.4
30°	1189.9	1100.8	948.1	842.9	801.3
32.5°	1154.3	1047.6	869.3	763.4	731.1
35°	1108.2	983.4	796.5	696.9	671.3
37.5°	1061.8	914.6	724.1	637.5	614.8
40°	1008.6	845.2	655.7	588.5	572.5
42.5°	945.5	774.6	597.7	547.2	541.7
45°	878.6	697.7	545.7	517.1	519.0
47.5°	805.8	627.8	498.6	493.0	502.3
50°	732.6	562.8	459.2	474.8	489.3
52.5°	651.2	500.0	428.0	459.9	477.4
55°	576.2	439.9	399.7	445.8	466.6
57.5°	501.5	388.6	375.2	431.3	453.2
60°	427.2	341.8	351.4	415.7	438.7
62.5°	362.6	297.2	330.6	398.3	418.3
65°	299.1	259.7	309.1	377.4	397.1
67.5°	246.3	226.2	287.5	352.6	370.4
70°	196.2	194.7	264.5	325.1	341.4
72.5°	153.1	166.1	240.4	296.5	312.1
75°	116.3	141.5	217.7	267.5	277.1
77.5°	85.1	118.5	194.7	238.1	244.8
80°	58.3	98.4	172.7	208.8	213.6
82.5°	36.8	81.4	151.6	182.4	185.8
85°	20.4	67.2	132.6	158.6	160.9
87.5°	7.8	55.4	115.5	137.8	139.7
90°	0.4	46.8	101.4	118.1	118.1
92.5°	0.4	40.9	89.9	102.5	103.3
95°	0.7	36.0	79.9	88.4	87.7
97.5°	0.7	32.7	70.6	77.6	75.4
100°	0.7	29.7	63.5	68.4	66.1
102.5°	0.7	26.4	58.0	60.9	58.3
105°	0.7	21.9	53.5	55.7	53.5
107.5°	0.7	17.5	48.7	51.6	49.4
110°	0.7	13.0	44.2	47.9	46.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	8.2	40.1	44.6	43.5
115°	0.7	3.0	36.0	42.0	40.9
117.5°	0.4	1.5	30.8	39.0	38.6
120°	0.4	1.1	26.0	36.4	36.4
122.5°	0.4	1.1	21.5	32.7	34.2
125°	0.4	0.7	16.3	29.0	30.8
127.5°	0.4	0.7	11.5	25.3	27.5
130°	0.4	0.7	5.9	20.8	23.8
132.5°	0.4	0.7	0.7	16.3	19.7
135°	0.7	0.7	0.7	11.9	15.6
137.5°	0.7	0.7	0.7	6.3	11.1
140°	0.7	0.7	0.4	0.4	5.2
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)