

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: P290361

Luminaire Tested: **4SSRK-SLN-30-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290361
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-L835-CD1-U
Description: 3000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3162.0 lumens
Efficiency: N/A
Efficacy: 155.0 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

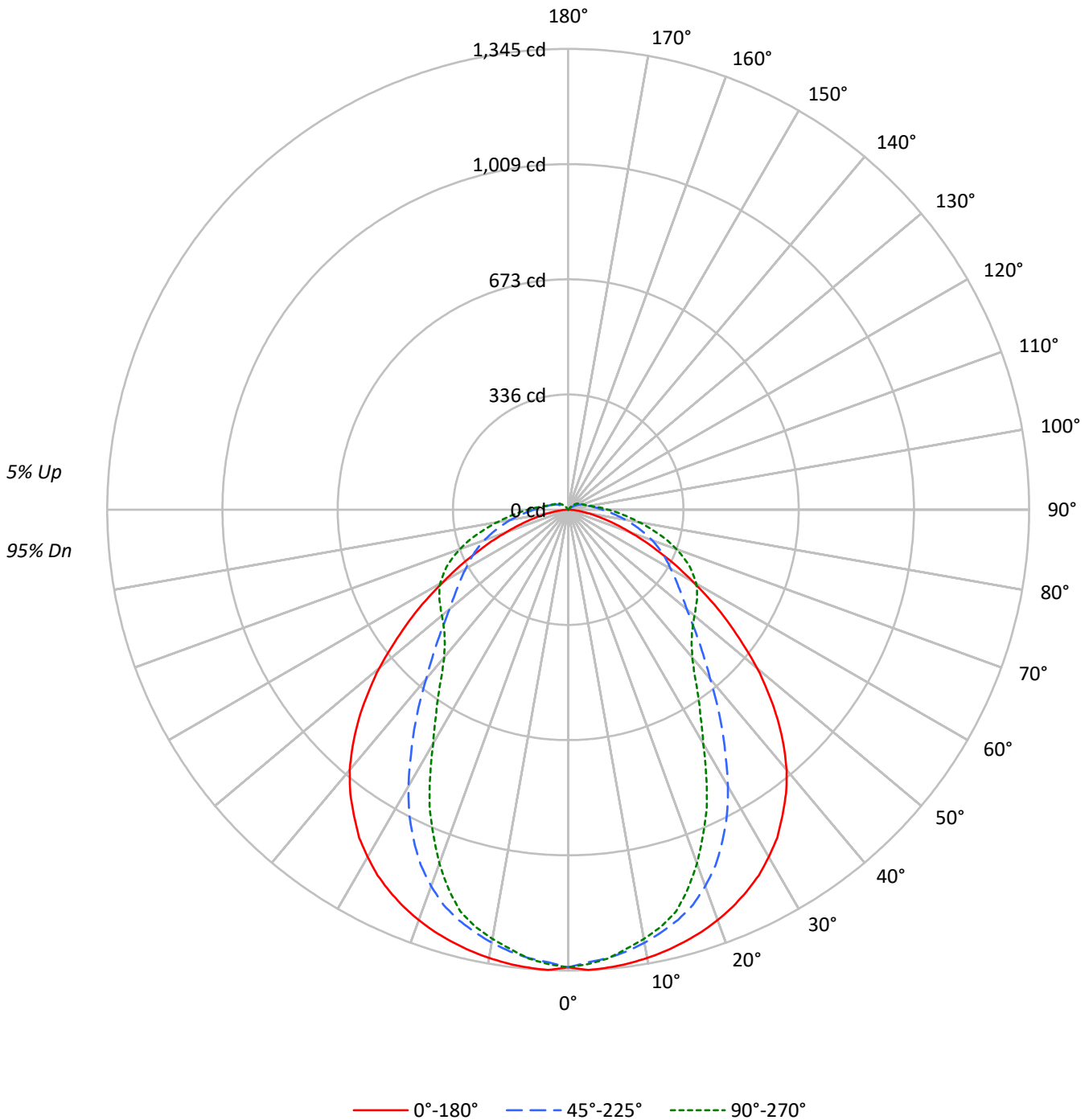
Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	86257	86257	86257
5°	86647	68147	63156
10°	86493	55976	48901
15°	86376	46919	39198
20°	86292	39380	30742
25°	86007	32565	23794
30°	85209	26236	17757
35°	83478	20575	13693
40°	80791	15998	10894
45°	75756	12704	9322
50°	68957	10296	8382
55°	60214	8710	7696
60°	50610	7503	7028
65°	41257	6515	6230
70°	32683	5548	5287
75°	24683	4580	4269
80°	17268	3672	3299
85°	10089	2870	2509



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	4.0
10°-20°	351.5	11.1
20°-30°	494.4	15.6
30°-40°	517.7	16.4
40°-50°	468.7	14.8
50°-60°	398.9	12.6
60°-70°	315.4	10.0
70°-80°	214.8	6.8
80°-90°	122.5	3.9
90°-100°	68.0	2.1
100°-110°	41.5	1.3
110°-120°	25.2	0.8
120°-130°	13.7	0.4
130°-140°	4.1	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°	971.3	30.7
0°-40°	1489.0	47.1
0°-60°	2356.6	74.5
0°-90°	3009.4	95.2
90°-120°	134.7	4.3
90°-150°	152.6	4.8
90°-180°	153.0	4.8
0°-180°	3162.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1341	1333	1314	1320	1315	128
15°	1306	1282	1239	1226	1215	369
25°	1230	1169	1066	983	957	567
35°	1090	967	783	685	660	681
45°	864	686	537	508	510	664
55°	567	432	393	438	459	507
65°	294	255	304	371	390	296
75°	114	139	214	263	272	125
85°	20	66	130	156	158	24
90°	0	46	100	116	116	1
95°	1	35	78	87	86	1
105°	1	22	53	55	53	1
115°	1	3	35	41	40	1
125°	0	1	16	28	30	0
135°	1	1	1	12	15	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°	1335.6	1335.6	1335.6	1335.6	1335.6
2.5°	1344.7	1337.4	1322.0	1331.9	1327.5
5°	1341.4	1333.0	1314.0	1319.9	1315.1
7.5°	1336.3	1325.0	1300.5	1302.3	1293.2
10°	1328.6	1314.0	1283.7	1280.4	1271.6
12.5°	1318.8	1298.7	1262.1	1257.8	1247.5
15°	1306.3	1281.5	1239.1	1226.3	1214.6
17.5°	1292.5	1261.0	1209.5	1181.0	1160.9
20°	1274.6	1234.7	1169.0	1127.7	1098.5
22.5°	1254.5	1206.2	1123.3	1061.2	1028.0
25°	1230.4	1169.3	1066.0	983.4	956.7
27.5°	1203.7	1131.0	1003.5	907.1	871.6
30°	1170.1	1082.4	932.3	828.9	788.0
32.5°	1135.0	1030.2	854.8	750.7	718.9
35°	1089.7	967.0	783.2	685.3	660.1
37.5°	1044.0	899.4	712.0	626.9	604.6
40°	991.8	831.1	644.8	578.6	562.9
42.5°	929.7	761.7	587.8	538.1	532.6
45°	864.0	686.0	536.6	508.5	510.3
47.5°	792.4	617.4	490.2	484.8	493.9
50°	720.4	553.4	451.5	466.9	481.1
52.5°	640.4	491.7	420.8	452.3	469.4
55°	566.6	432.5	393.1	438.4	458.8
57.5°	493.2	382.1	369.0	424.1	445.7
60°	420.1	336.1	345.6	408.8	431.4
62.5°	356.5	292.2	325.1	391.6	411.3
65°	294.1	255.3	303.9	371.2	390.5
67.5°	242.2	222.5	282.7	346.7	364.2
70°	192.9	191.4	260.1	319.6	335.7
72.5°	150.5	163.3	236.4	291.5	306.9
75°	114.3	139.2	214.1	263.0	272.5
77.5°	83.7	116.5	191.4	234.2	240.7
80°	57.4	96.8	169.9	205.3	210.1
82.5°	36.2	80.0	149.0	179.4	182.7
85°	20.1	66.1	130.4	156.0	158.2
87.5°	7.7	54.4	113.6	135.5	137.4
90°	0.4	46.0	99.7	116.2	116.2
92.5°	0.4	40.2	88.4	100.8	101.6
95°	0.7	35.4	78.5	86.9	86.2
97.5°	0.7	32.1	69.4	76.3	74.2
100°	0.7	29.2	62.5	67.2	65.0
102.5°	0.7	25.9	57.0	59.9	57.4
105°	0.7	21.6	52.6	54.8	52.6
107.5°	0.7	17.2	47.9	50.8	48.6
110°	0.7	12.8	43.5	47.1	45.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	8.0	39.5	43.8	42.7
115°	0.7	2.9	35.4	41.3	40.2
117.5°	0.4	1.5	30.3	38.4	38.0
120°	0.4	1.1	25.6	35.8	35.8
122.5°	0.4	1.1	21.2	32.1	33.6
125°	0.4	0.7	16.1	28.5	30.3
127.5°	0.4	0.7	11.3	24.8	27.0
130°	0.4	0.7	5.8	20.5	23.4
132.5°	0.4	0.7	0.7	16.1	19.4
135°	0.7	0.7	0.7	11.7	15.3
137.5°	0.7	0.7	0.7	6.2	11.0
140°	0.7	0.7	0.4	0.4	5.1
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)