

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: P290353

Luminaire Tested: **4SSRK-SLN-20-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290353
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-20-L835-CD1-U
Description: 2000 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: 2091.1 lumens
Efficiency: N/A
Efficacy: 152.6 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

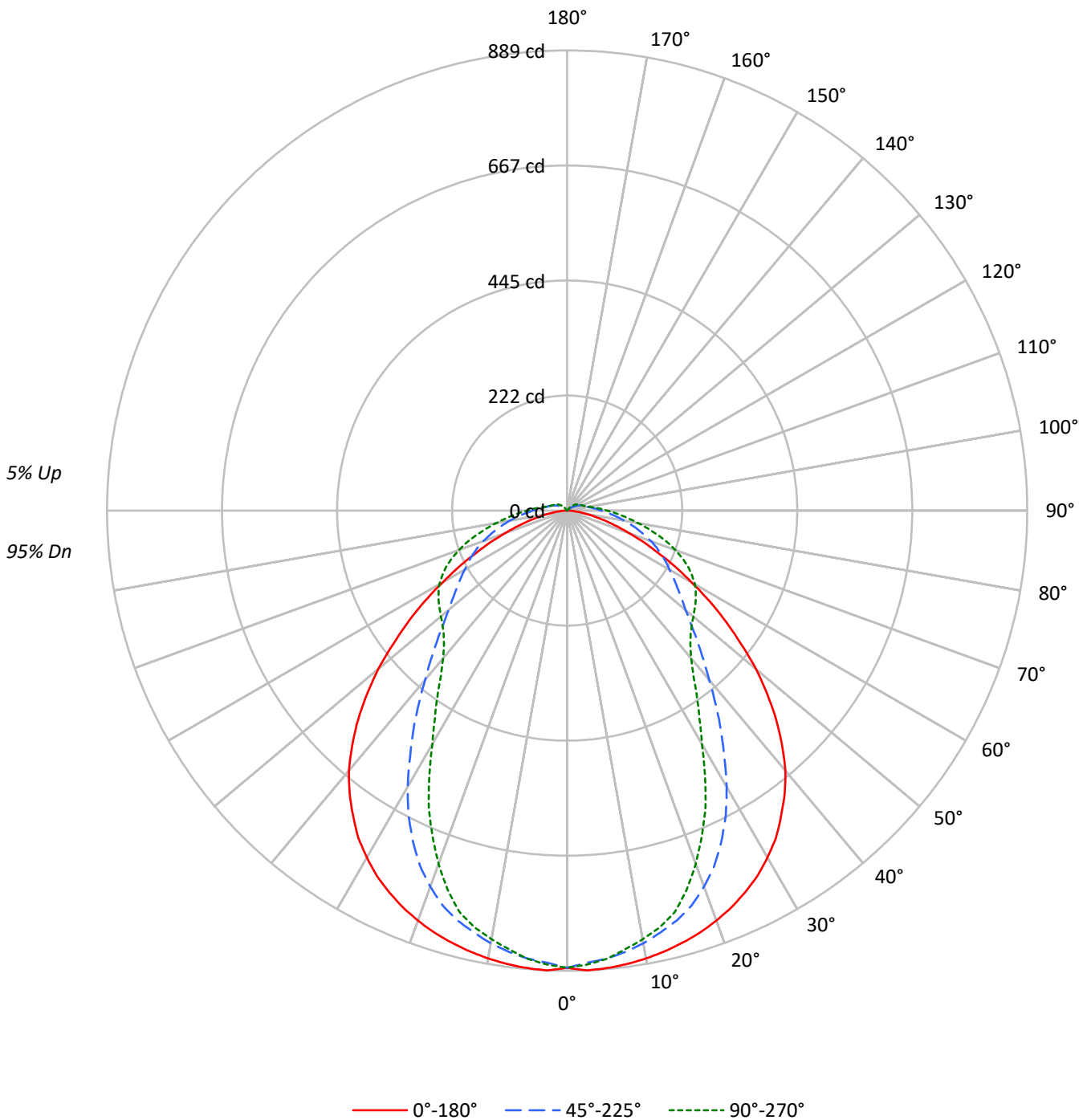
Input Watts (W): 13.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	57040	57040	57040
5°	57302	45068	41766
10°	57198	37017	32338
15°	57124	31027	25924
20°	57065	26043	20328
25°	56872	21534	15736
30°	56350	17349	11743
35°	55202	13608	9054
40°	53429	10579	7205
45°	50092	8402	6165
50°	45601	6809	5544
55°	39821	5759	5089
60°	33467	4960	4648
65°	27285	4309	4121
70°	21619	3669	3496
75°	16326	3029	2823
80°	11401	2427	2181
85°	6676	1897	1659



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	4.0
10°-20°	232.5	11.1
20°-30°	326.9	15.6
30°-40°	342.4	16.4
40°-50°	310.0	14.8
50°-60°	263.8	12.6
60°-70°	208.6	10.0
70°-80°	142.0	6.8
80°-90°	81.0	3.9
90°-100°	45.0	2.1
100°-110°	27.5	1.3
110°-120°	16.7	0.8
120°-130°	9.0	0.4
130°-140°	2.7	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°	642.3	30.7
0°-40°	984.7	47.1
0°-60°	1558.4	74.5
0°-90°	1990.1	95.2
90°-120°	89.1	4.3
90°-150°	101.0	4.8
90°-180°	101.0	4.8
0°-180°	2091.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	883	883	883	883	883	
5°	887	882	869	873	870	84
15°	864	848	819	811	803	244
25°	814	773	705	650	633	375
35°	721	640	518	453	436	450
45°	571	454	355	336	338	439
55°	375	286	260	290	303	335
65°	194	169	201	245	258	196
75°	76	92	142	174	180	82
85°	13	44	86	103	105	16
90°	0	30	66	77	77	1
95°	0	23	52	58	57	0
105°	0	14	35	36	35	1
115°	0	2	23	27	27	0
125°	0	0	11	19	20	0
135°	0	0	0	8	10	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°	883.2	883.2	883.2	883.2	883.2
2.5°	889.3	884.4	874.3	880.8	877.9
5°	887.1	881.5	869.0	872.8	869.7
7.5°	883.7	876.2	860.0	861.2	855.2
10°	878.6	869.0	848.9	846.7	840.9
12.5°	872.1	858.8	834.7	831.8	825.0
15°	863.9	847.5	819.4	811.0	803.3
17.5°	854.7	833.9	799.9	781.0	767.7
20°	842.9	816.5	773.1	745.8	726.4
22.5°	829.6	797.7	742.9	701.8	679.8
25°	813.6	773.3	704.9	650.3	632.7
27.5°	796.0	747.9	663.6	599.8	576.4
30°	773.8	715.8	616.5	548.1	521.1
32.5°	750.6	681.3	565.3	496.5	475.4
35°	720.6	639.5	518.0	453.2	436.5
37.5°	690.4	594.8	470.8	414.6	399.8
40°	655.9	549.6	426.4	382.7	372.3
42.5°	614.8	503.7	388.7	355.9	352.2
45°	571.3	453.7	354.9	336.3	337.5
47.5°	524.0	408.3	324.2	320.6	326.6
50°	476.4	366.0	298.6	308.7	318.2
52.5°	423.5	325.2	278.3	299.1	310.4
55°	374.7	286.0	259.9	289.9	303.4
57.5°	326.1	252.7	244.0	280.5	294.7
60°	277.8	222.3	228.5	270.3	285.3
62.5°	235.8	193.3	215.0	259.0	272.0
65°	194.5	168.9	201.0	245.4	258.3
67.5°	160.2	147.1	187.0	229.3	240.9
70°	127.6	126.6	172.0	211.4	222.0
72.5°	99.5	108.0	156.3	192.8	202.9
75°	75.6	92.0	141.6	173.9	180.2
77.5°	55.3	77.1	126.6	154.9	159.2
80°	37.9	64.0	112.3	135.8	138.9
82.5°	23.9	52.9	98.6	118.6	120.8
85°	13.3	43.7	86.2	103.2	104.6
87.5°	5.1	36.0	75.1	89.6	90.8
90°	0.2	30.4	66.0	76.8	76.8
92.5°	0.2	26.6	58.5	66.7	67.2
95°	0.5	23.4	51.9	57.5	57.0
97.5°	0.5	21.3	45.9	50.5	49.0
100°	0.5	19.3	41.3	44.5	43.0
102.5°	0.5	17.2	37.7	39.6	37.9
105°	0.5	14.3	34.8	36.2	34.8
107.5°	0.5	11.4	31.6	33.6	32.1
110°	0.5	8.5	28.7	31.2	30.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.2	5.3	26.1	29.0	28.3
115°	0.5	1.9	23.4	27.3	26.6
117.5°	0.2	1.0	20.1	25.4	25.1
120°	0.2	0.7	16.9	23.7	23.7
122.5°	0.2	0.7	14.0	21.3	22.2
125°	0.2	0.5	10.6	18.8	20.1
127.5°	0.2	0.5	7.5	16.4	17.9
130°	0.2	0.5	3.9	13.5	15.5
132.5°	0.2	0.5	0.5	10.6	12.8
135°	0.5	0.5	0.5	7.7	10.1
137.5°	0.5	0.5	0.5	4.1	7.2
140°	0.5	0.5	0.2	0.2	3.4
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)