

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: P290348

Luminaire Tested: **4SSRK-SLN-20-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290348
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-L930-CD1-U
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 90 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1654.8 lumens
Efficiency: N/A
Efficacy: 120.8 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

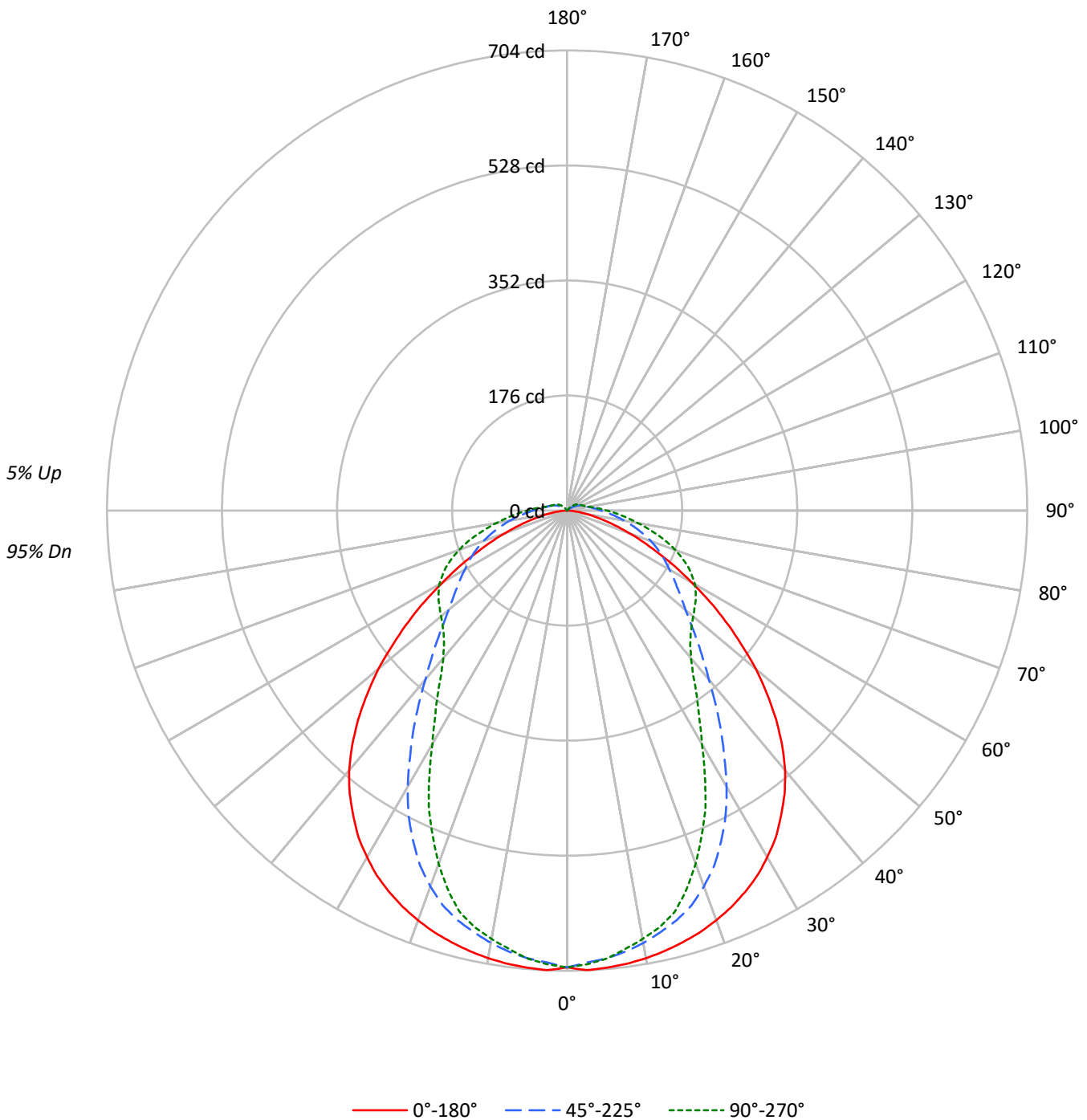
Input Watts (W): 13.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290348

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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°	45137	45137	45137
5°	45345	35666	33050
10°	45265	29294	25593
15°	45202	24556	20515
20°	45157	20610	16089
25°	45009	17043	12453
30°	44589	13730	9293
35°	43689	10768	7167
40°	42277	8371	5701
45°	39640	6648	4879
50°	36086	5389	4387
55°	31510	4558	4027
60°	26492	3927	3679
65°	21589	3411	3261
70°	17096	2903	2767
75°	12914	2396	2234
80°	9025	1921	1726
85°	5270	1501	1313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	4.0
10°-20°	184.0	11.1
20°-30°	258.7	15.6
30°-40°	270.9	16.4
40°-50°	245.3	14.8
50°-60°	208.8	12.6
60°-70°	165.1	10.0
70°-80°	112.4	6.8
80°-90°	64.1	3.9
90°-100°	35.6	2.1
100°-110°	21.7	1.3
110°-120°	13.2	0.8
120°-130°	7.2	0.4
130°-140°	2.2	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°	508.3	30.7
0°-40°	779.3	47.1
0°-60°	1233.3	74.5
0°-90°	1574.9	95.2
90°-120°	70.5	4.3
90°-150°	79.9	4.8
90°-180°	80.0	4.8
0°-180°	1654.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	699	699	699	699	699	
5°	702	698	688	691	688	67
15°	684	671	648	642	636	193
25°	644	612	558	515	501	297
35°	570	506	410	359	346	356
45°	452	359	281	266	267	347
55°	296	226	206	229	240	265
65°	154	134	159	194	204	155
75°	60	73	112	138	143	65
85°	10	35	68	82	83	13
90°	0	24	52	61	61	1
95°	0	18	41	46	45	0
105°	0	11	28	29	28	0
115°	0	2	18	22	21	0
125°	0	0	8	15	16	0
135°	0	0	0	6	8	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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CATALOG NUMBER: 4SSRK-SLN-20-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	698.9	698.9	698.9	698.9	698.9
2.5°	703.7	699.9	691.9	697.0	694.7
5°	702.0	697.6	687.7	690.7	688.2
7.5°	699.3	693.4	680.6	681.5	676.8
10°	695.3	687.7	671.8	670.1	665.5
12.5°	690.1	679.6	660.5	658.2	652.9
15°	683.6	670.6	648.5	641.8	635.7
17.5°	676.4	659.9	633.0	618.1	607.6
20°	667.0	646.2	611.8	590.2	574.9
22.5°	656.5	631.3	587.9	555.4	538.0
25°	643.9	612.0	557.9	514.6	500.7
27.5°	629.9	591.9	525.2	474.7	456.1
30°	612.3	566.5	487.9	433.8	412.4
32.5°	594.0	539.1	447.4	392.9	376.2
35°	570.3	506.0	409.9	358.6	345.5
37.5°	546.4	470.7	372.6	328.1	316.4
40°	519.0	434.9	337.4	302.8	294.6
42.5°	486.5	398.6	307.6	281.6	278.7
45°	452.1	359.0	280.8	266.1	267.1
47.5°	414.7	323.1	256.6	253.7	258.5
50°	377.0	289.6	236.3	244.3	251.8
52.5°	335.1	257.3	220.2	236.7	245.7
55°	296.5	226.4	205.7	229.4	240.1
57.5°	258.1	200.0	193.1	222.0	233.2
60°	219.9	175.9	180.9	213.9	225.8
62.5°	186.6	152.9	170.1	204.9	215.3
65°	153.9	133.6	159.1	194.2	204.4
67.5°	126.7	116.4	148.0	181.4	190.6
70°	100.9	100.2	136.1	167.3	175.7
72.5°	78.8	85.5	123.7	152.6	160.6
75°	59.8	72.8	112.0	137.6	142.6
77.5°	43.8	61.0	100.2	122.5	126.0
80°	30.0	50.7	88.9	107.4	109.9
82.5°	18.9	41.9	78.0	93.9	95.6
85°	10.5	34.6	68.2	81.6	82.8
87.5°	4.0	28.5	59.5	70.9	71.9
90°	0.2	24.1	52.2	60.8	60.8
92.5°	0.2	21.0	46.3	52.8	53.1
95°	0.4	18.5	41.1	45.5	45.1
97.5°	0.4	16.8	36.3	40.0	38.8
100°	0.4	15.3	32.7	35.2	34.0
102.5°	0.4	13.6	29.8	31.4	30.0
105°	0.4	11.3	27.5	28.7	27.5
107.5°	0.4	9.0	25.0	26.6	25.4
110°	0.4	6.7	22.7	24.7	23.7



TEST NUMBER: P290348

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.2	4.2	20.6	22.9	22.4
115°	0.4	1.5	18.5	21.6	21.0
117.5°	0.2	0.8	15.9	20.1	19.9
120°	0.2	0.6	13.4	18.7	18.7
122.5°	0.2	0.6	11.1	16.8	17.6
125°	0.2	0.4	8.4	14.9	15.9
127.5°	0.2	0.4	5.9	13.0	14.1
130°	0.2	0.4	3.1	10.7	12.2
132.5°	0.2	0.4	0.4	8.4	10.1
135°	0.4	0.4	0.4	6.1	8.0
137.5°	0.4	0.4	0.4	3.2	5.7
140°	0.4	0.4	0.2	0.2	2.7
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)