

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: P290355

Luminaire Tested: **4SSRK-SLN-20-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290355
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-L850-CD1-U
Description: 2000 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: 2126.5 lumens
Efficiency: N/A
Efficacy: 155.2 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

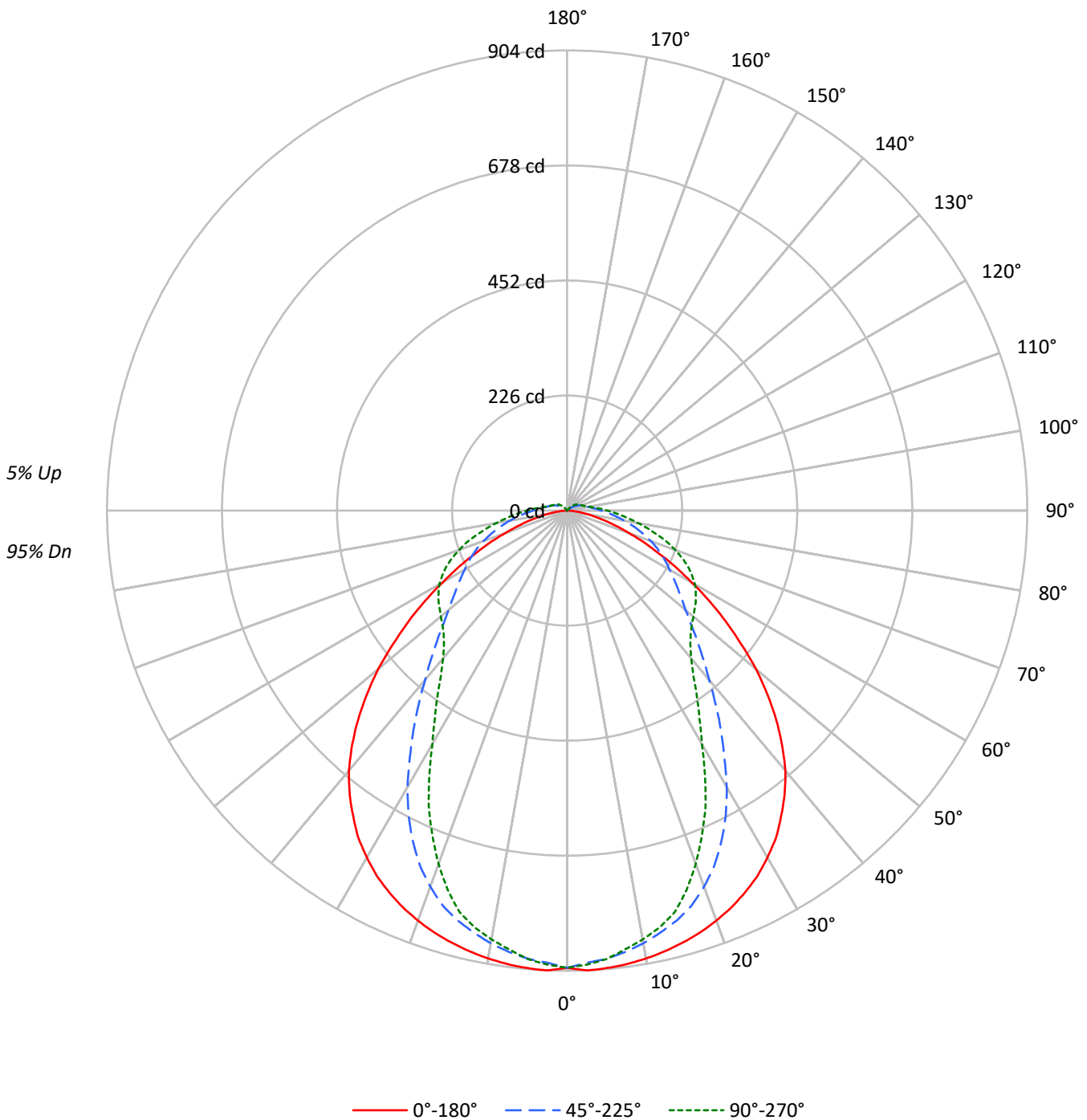
Input Watts (W): 13.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	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°	58008	58008	58008
5°	58270	45831	42472
10°	58168	37645	32888
15°	58089	31553	26363
20°	58033	26485	20675
25°	57836	21900	16002
30°	57304	17645	11941
35°	56145	13837	9208
40°	54333	10758	7327
45°	50943	8544	6269
50°	46376	6926	5638
55°	40490	5859	5176
60°	34033	5045	4726
65°	27748	4382	4190
70°	21975	3731	3556
75°	16606	3080	2872
80°	11612	2468	2219
85°	6776	1930	1688



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	4.0
10°-20°	236.4	11.1
20°-30°	332.5	15.6
30°-40°	348.2	16.4
40°-50°	315.2	14.8
50°-60°	268.3	12.6
60°-70°	212.1	10.0
70°-80°	144.4	6.8
80°-90°	82.4	3.9
90°-100°	45.7	2.1
100°-110°	27.9	1.3
110°-120°	17.0	0.8
120°-130°	9.2	0.4
130°-140°	2.8	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°	653.2	30.7
0°-40°	1001.4	47.1
0°-60°	1584.9	74.5
0°-90°	2023.9	95.2
90°-120°	90.6	4.3
90°-150°	102.6	4.8
90°-180°	103.0	4.8
0°-180°	2126.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	898	898	898	898	898	
5°	902	896	884	888	884	86
15°	878	862	833	825	817	248
25°	827	786	717	661	643	381
35°	733	650	527	461	444	458
45°	581	461	361	342	343	446
55°	381	291	264	295	309	341
65°	198	172	204	250	263	199
75°	77	94	144	177	183	84
85°	14	44	88	105	106	16
90°	0	31	67	78	78	1
95°	0	24	53	58	58	0
105°	0	14	35	37	35	1
115°	0	2	24	28	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°	898.2	898.2	898.2	898.2	898.2
2.5°	904.3	899.4	889.1	895.7	892.8
5°	902.1	896.5	883.7	887.6	884.4
7.5°	898.7	891.1	874.6	875.8	869.7
10°	893.5	883.7	863.3	861.1	855.2
12.5°	886.9	873.4	848.8	845.9	839.0
15°	878.5	861.8	833.3	824.7	816.9
17.5°	869.2	848.1	813.4	794.3	780.8
20°	857.2	830.4	786.2	758.4	738.8
22.5°	843.7	811.2	755.5	713.7	691.3
25°	827.4	786.4	716.9	661.4	643.4
27.5°	809.5	760.6	674.9	610.0	586.2
30°	786.9	727.9	627.0	557.4	529.9
32.5°	763.3	692.8	574.9	504.9	483.5
35°	732.9	650.3	526.7	460.9	443.9
37.5°	702.2	604.9	478.8	421.6	406.6
40°	667.0	558.9	433.6	389.2	378.6
42.5°	625.3	512.2	395.3	361.9	358.2
45°	581.0	461.4	360.9	342.0	343.2
47.5°	532.9	415.2	329.7	326.0	332.2
50°	484.5	372.2	303.7	314.0	323.6
52.5°	430.7	330.7	283.0	304.2	315.7
55°	381.0	290.9	264.4	294.8	308.6
57.5°	331.7	257.0	248.1	285.2	299.7
60°	282.5	226.0	232.4	274.9	290.1
62.5°	239.8	196.5	218.7	263.4	276.6
65°	197.8	171.7	204.4	249.6	262.6
67.5°	162.9	149.6	190.2	233.1	244.9
70°	129.7	128.7	174.9	215.0	225.8
72.5°	101.2	109.8	159.0	196.1	206.4
75°	76.9	93.6	144.0	176.9	183.3
77.5°	56.3	78.4	128.7	157.5	161.9
80°	38.6	65.1	114.2	138.1	141.3
82.5°	24.3	53.8	100.2	120.6	122.8
85°	13.5	44.5	87.7	104.9	106.4
87.5°	5.2	36.6	76.4	91.1	92.4
90°	0.2	31.0	67.1	78.1	78.1
92.5°	0.2	27.0	59.5	67.8	68.3
95°	0.5	23.8	52.8	58.5	58.0
97.5°	0.5	21.6	46.7	51.3	49.9
100°	0.5	19.7	42.0	45.2	43.7
102.5°	0.5	17.4	38.3	40.3	38.6
105°	0.5	14.5	35.4	36.9	35.4
107.5°	0.5	11.5	32.2	34.1	32.7
110°	0.5	8.6	29.2	31.7	30.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.2	5.4	26.5	29.5	28.7
115°	0.5	2.0	23.8	27.8	27.0
117.5°	0.2	1.0	20.4	25.8	25.6
120°	0.2	0.7	17.2	24.1	24.1
122.5°	0.2	0.7	14.2	21.6	22.6
125°	0.2	0.5	10.8	19.2	20.4
127.5°	0.2	0.5	7.6	16.7	18.2
130°	0.2	0.5	3.9	13.8	15.7
132.5°	0.2	0.5	0.5	10.8	13.0
135°	0.5	0.5	0.5	7.9	10.3
137.5°	0.5	0.5	0.5	4.2	7.4
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)