

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: P290438

Luminaire Tested: **4SSRK-SLW-20-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290438
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-17)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-SLW-20-L940-CD1-U
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1668.9 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

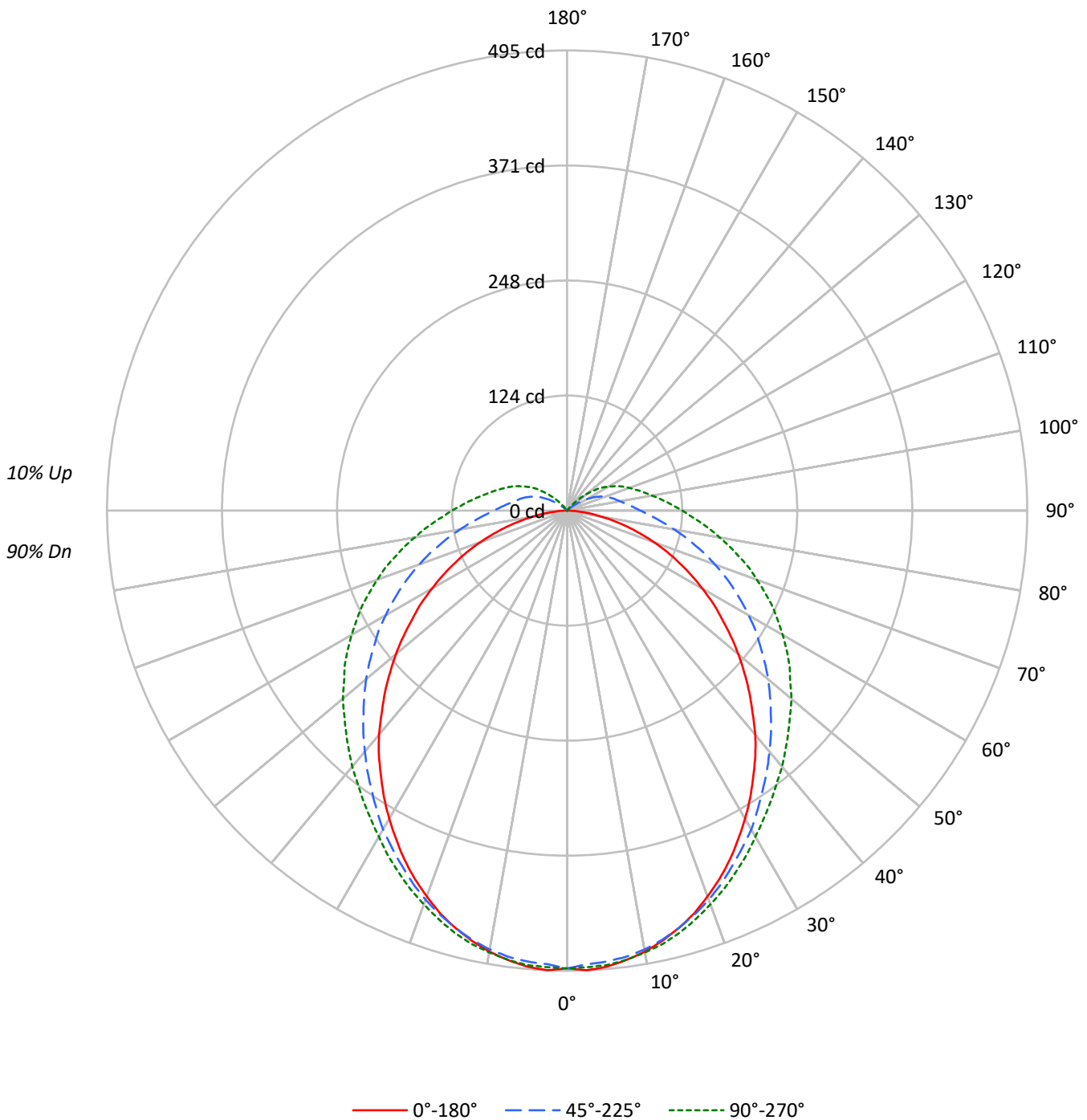
Input Watts (W): 13.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	104	99	94	89	101	96	91	87	89	86	82	84	81	78	79	76	74	71
2	94	85	78	71	91	82	76	70	77	72	67	72	68	64	68	64	61	58
3	86	74	66	59	82	72	64	58	68	61	55	63	58	53	60	55	51	48
4	78	66	56	49	75	64	55	49	60	53	47	56	50	45	53	48	43	41
5	72	59	49	42	69	57	48	42	54	46	40	50	44	39	48	42	38	35
6	66	53	43	37	64	51	43	36	48	41	35	46	39	34	43	37	33	31
7	61	48	39	32	59	46	38	32	44	36	31	42	35	30	39	34	29	27
8	57	43	35	29	55	42	34	28	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	23	48	36	28	23	34	27	23	33	26	22	31	26	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31801	31801	31801
5°	31806	25257	23565
10°	31366	20900	18559
15°	30727	17596	15158
20°	29890	15004	12616
25°	28953	12864	10674
30°	27876	11150	9129
35°	26736	9636	7920
40°	25651	8396	6959
45°	24314	7337	6147
50°	23021	6438	5486
55°	21605	5615	4901
60°	20227	4895	4365
65°	18685	4227	3887
70°	16825	3605	3421
75°	14404	3031	2998
80°	11311	2524	2615
85°	7429	2104	2278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.5	2.8
10°-20°	131.6	7.9
20°-30°	194.7	11.7
30°-40°	229.9	13.8
40°-50°	239.0	14.3
50°-60°	225.4	13.5
60°-70°	192.1	11.5
70°-80°	145.3	8.7
80°-90°	98.0	5.9
90°-100°	67.3	4.0
100°-110°	48.3	2.9
110°-120°	31.0	1.9
120°-130°	15.8	0.9
130°-140°	4.0	0.2
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°	372.8	22.3
0°-40°	602.7	36.1
0°-60°	1067.1	63.9
0°-90°	1502.5	90.0
90°-120°	146.5	8.8
90°-150°	166.4	10.0
90°-180°	166.0	9.9
0°-180°	1668.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	492	492	492	492	492	
5°	492	491	487	492	491	47
15°	465	466	465	469	470	131
25°	414	419	421	428	429	191
35°	349	357	367	378	382	219
45°	277	291	310	329	336	214
55°	203	224	253	281	292	182
65°	133	160	197	230	244	132
75°	67	99	142	178	191	71
85°	15	50	96	131	144	17
90°	0	35	79	112	124	1
95°	0	28	67	96	107	0
105°	0	18	51	73	81	0
115°	0	2	35	55	62	0
125°	0	1	15	34	41	0
135°	0	0	0	11	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°	492.4	492.4	492.4	492.4	492.4
2.5°	494.9	493.2	488.4	492.6	491.6
5°	492.4	491.1	487.0	491.6	490.7
7.5°	487.6	487.4	484.1	488.8	487.4
10°	481.8	482.0	479.3	484.1	482.6
12.5°	473.9	474.7	472.8	477.4	477.2
15°	464.7	466.2	464.7	469.3	469.7
17.5°	454.3	456.6	455.6	461.2	460.6
20°	441.5	444.6	445.4	451.0	450.8
22.5°	428.6	432.5	434.0	439.8	440.6
25°	414.2	419.0	421.1	428.4	429.2
27.5°	398.6	404.9	408.6	415.9	417.8
30°	382.8	389.5	396.2	403.4	405.1
32.5°	366.4	373.7	381.4	391.4	393.2
35°	349.0	357.3	366.8	377.9	381.8
37.5°	332.6	341.9	353.1	366.0	370.2
40°	314.9	324.4	338.4	352.9	359.6
42.5°	295.1	308.0	324.7	342.1	347.9
45°	277.3	291.0	309.9	329.0	336.5
47.5°	258.6	274.6	296.0	317.2	325.3
50°	240.5	257.9	282.3	305.1	314.9
52.5°	221.8	241.5	267.9	293.3	302.4
55°	203.3	224.3	253.4	280.6	292.2
57.5°	186.6	208.1	240.3	268.1	280.0
60°	167.9	192.7	225.5	255.4	267.9
62.5°	150.7	175.8	211.0	242.8	255.2
65°	133.2	160.2	197.2	229.9	243.6
67.5°	116.8	144.0	183.3	217.2	230.3
70°	99.3	128.9	169.0	203.9	217.2
72.5°	83.3	113.7	155.7	191.0	205.3
75°	66.7	99.1	141.7	177.9	191.4
77.5°	52.0	85.0	129.3	165.7	179.2
80°	37.6	72.1	116.8	153.4	166.5
82.5°	25.6	60.3	105.8	142.2	155.1
85°	14.8	49.7	95.6	130.9	143.6
87.5°	5.6	41.4	86.5	121.2	132.8
90°	0.2	35.1	78.6	112.0	123.9
92.5°	0.2	30.8	72.5	103.7	114.7
95°	0.2	27.9	66.9	96.4	107.2
97.5°	0.4	25.6	61.9	90.0	99.6
100°	0.4	23.3	57.8	83.8	92.9
102.5°	0.4	21.0	54.0	78.1	86.7
105°	0.4	17.9	50.7	73.0	81.3
107.5°	0.4	13.9	47.0	68.6	75.9
110°	0.4	10.2	43.0	64.2	71.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	6.2	39.5	59.9	66.7
115°	0.4	2.3	35.1	55.1	61.9
117.5°	0.4	0.8	29.9	50.5	56.5
120°	0.4	0.6	24.9	45.5	51.5
122.5°	0.4	0.6	19.7	40.1	46.6
125°	0.4	0.6	14.8	34.3	41.2
127.5°	0.4	0.4	9.6	28.3	34.5
130°	0.4	0.4	4.6	22.4	28.5
132.5°	0.4	0.4	0.2	16.4	22.2
135°	0.4	0.2	0.2	10.8	16.0
137.5°	0.4	0.2	0.0	5.2	10.4
140°	0.4	0.2	0.0	0.0	4.2
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)