

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: P290382

Luminaire Tested: **4SSRK-SLN-80-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290382
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-80-L940-CD1-U
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7322.7 lumens
Efficiency: N/A
Efficacy: 116.4 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

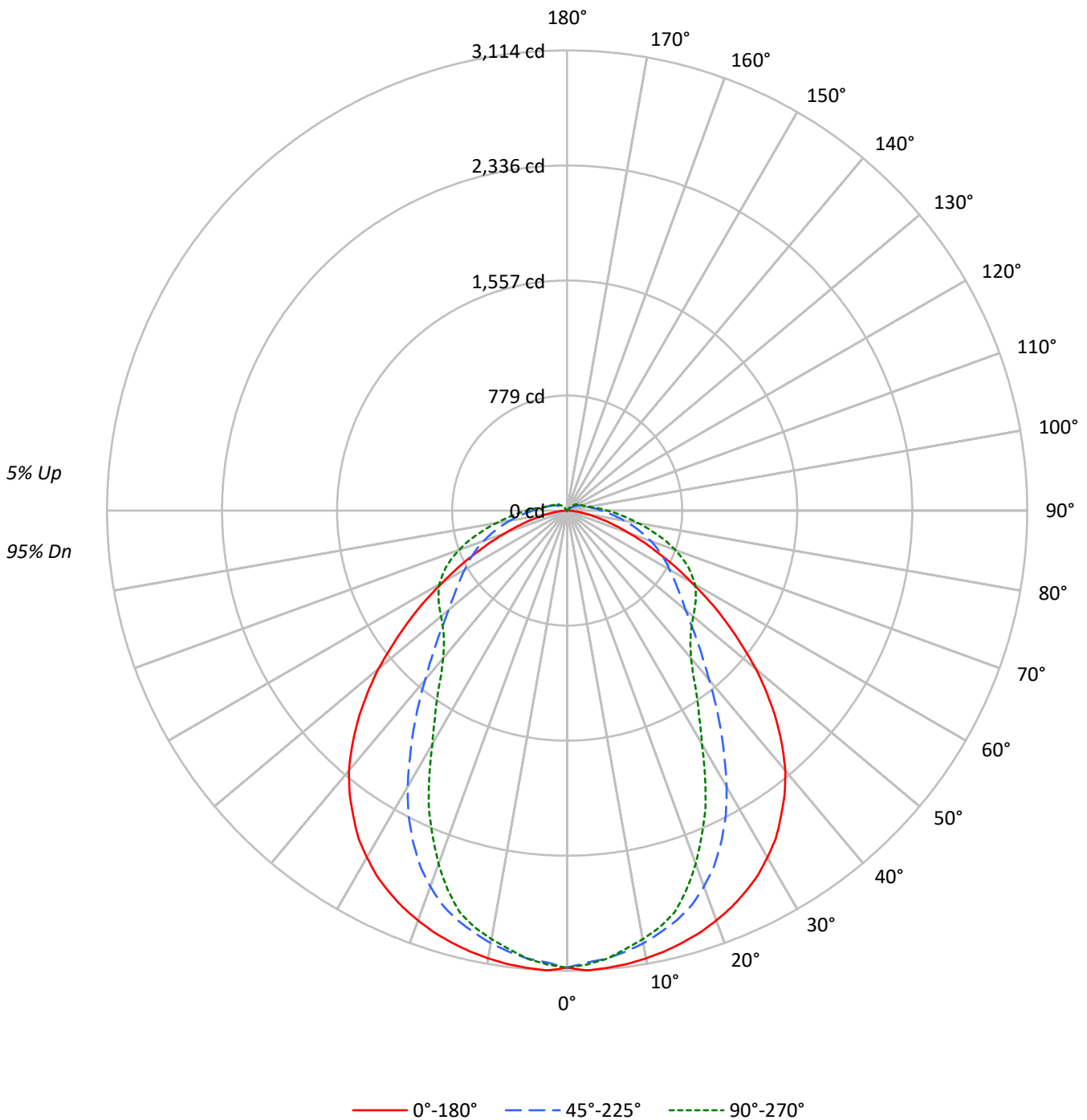
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290382

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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°	199755	199755	199755
5°	200662	157823	146261
10°	200309	129631	113249
15°	200042	108658	90778
20°	199833	91198	71191
25°	199170	75413	55106
30°	197326	60757	41120
35°	193324	47650	31710
40°	187103	37047	25230
45°	175432	29423	21590
50°	159690	23847	19412
55°	139441	20171	17824
60°	117207	17373	16277
65°	95532	15089	14430
70°	75685	12850	12245
75°	57183	10605	9887
80°	39950	8503	7638
85°	23341	6647	5810



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.4	4.0
10°-20°	814.1	11.1
20°-30°	1144.9	15.6
30°-40°	1198.9	16.4
40°-50°	1085.4	14.8
50°-60°	923.8	12.6
60°-70°	730.5	10.0
70°-80°	497.4	6.8
80°-90°	283.8	3.9
90°-100°	157.4	2.1
100°-110°	96.2	1.3
110°-120°	58.5	0.8
120°-130°	31.7	0.4
130°-140°	9.6	0.1
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2249.4	30.7
0°-40°	3448.3	47.1
0°-60°	5457.6	74.5
0°-90°	6969.2	95.2
90°-120°	312.0	4.3
90°-150°	353.5	4.8
90°-180°	353.0	4.8
0°-180°	7322.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3093	3093	3093	3093	3093	
5°	3106	3087	3043	3057	3046	296
15°	3025	2968	2870	2840	2813	855
25°	2849	2708	2469	2277	2216	1313
35°	2524	2239	1814	1587	1529	1577
45°	2001	1589	1243	1178	1182	1537
55°	1312	1002	910	1015	1063	1173
65°	681	591	704	860	904	686
75°	265	322	496	609	631	289
85°	46	153	302	361	366	56
90°	1	107	231	269	269	3
95°	2	82	182	201	200	1
105°	2	50	122	127	122	2
115°	2	7	82	96	93	1
125°	1	2	37	66	70	1
135°	2	2	2	27	36	1
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



TEST NUMBER: P290382

CATALOG NUMBER: 4SSRK-SLN-80-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3093.0	3093.0	3093.0	3093.0	3093.0
2.5°	3114.1	3097.2	3061.7	3084.5	3074.4
5°	3106.5	3087.0	3043.1	3056.6	3045.6
7.5°	3094.7	3068.4	3011.8	3016.0	2994.8
10°	3076.9	3043.1	2972.8	2965.2	2944.9
12.5°	3054.1	3007.5	2922.9	2912.8	2889.1
15°	3025.3	2967.8	2869.6	2840.0	2812.9
17.5°	2993.1	2920.4	2801.1	2735.1	2688.6
20°	2951.7	2859.5	2707.2	2611.6	2543.9
22.5°	2905.2	2793.5	2601.4	2457.6	2380.6
25°	2849.3	2708.0	2468.6	2277.4	2215.7
27.5°	2787.6	2619.2	2324.0	2100.6	2018.6
30°	2709.7	2506.7	2159.0	1919.6	1824.8
32.5°	2628.5	2385.7	1979.6	1738.5	1664.9
35°	2523.6	2239.4	1813.8	1587.1	1528.7
37.5°	2417.9	2082.8	1648.8	1451.7	1400.1
40°	2296.9	1924.6	1493.2	1340.1	1303.7
42.5°	2153.1	1763.9	1361.2	1246.2	1233.5
45°	2000.8	1588.8	1242.8	1177.6	1181.9
47.5°	1835.0	1429.7	1135.3	1122.6	1143.8
50°	1668.3	1281.7	1045.7	1081.2	1114.2
52.5°	1483.0	1138.7	974.6	1047.3	1087.1
55°	1312.1	1001.7	910.3	1015.2	1062.6
57.5°	1142.1	884.9	854.5	982.2	1032.1
60°	972.9	778.3	800.3	946.7	999.1
62.5°	825.7	676.8	752.9	906.9	952.6
65°	681.0	591.4	703.9	859.5	904.4
67.5°	560.9	515.2	654.8	802.9	843.5
70°	446.7	443.3	602.4	740.2	777.5
72.5°	348.6	378.2	547.4	675.1	710.6
75°	264.8	322.3	495.8	609.1	631.1
77.5°	193.7	269.9	443.3	542.3	557.5
80°	132.8	224.2	393.4	475.5	486.4
82.5°	83.8	185.3	345.2	415.4	423.0
85°	46.5	153.1	302.0	361.2	366.3
87.5°	17.8	126.1	263.1	313.9	318.1
90°	0.8	106.6	231.0	269.0	269.0
92.5°	0.8	93.1	204.7	233.5	235.2
95°	1.7	82.1	181.9	201.3	199.7
97.5°	1.7	74.4	160.7	176.8	171.7
100°	1.7	67.7	144.7	155.7	150.6
102.5°	1.7	60.1	132.0	138.7	132.8
105°	1.7	49.9	121.8	126.9	121.8
107.5°	1.7	39.8	110.8	117.6	112.5
110°	1.7	29.6	100.7	109.1	104.9



TEST NUMBER: P290382

CATALOG NUMBER: 4SSRK-SLN-80-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	18.6	91.4	101.5	99.0
115°	1.7	6.8	82.1	95.6	93.1
117.5°	0.8	3.4	70.2	88.8	88.0
120°	0.8	2.5	59.2	82.9	82.9
122.5°	0.8	2.5	49.1	74.4	77.8
125°	0.8	1.7	37.2	66.0	70.2
127.5°	0.8	1.7	26.2	57.5	62.6
130°	0.8	1.7	13.5	47.4	54.1
132.5°	0.8	1.7	1.7	37.2	44.8
135°	1.7	1.7	1.7	27.1	35.5
137.5°	1.7	1.7	1.7	14.4	25.4
140°	1.7	1.7	0.8	0.8	11.8
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)