

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: P290358

Luminaire Tested: **4SSRK-SLN-30-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290358
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-30-L940-CD1-U
Description: 3000 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: 2720.3 lumens
Efficiency: N/A
Efficacy: 133.4 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

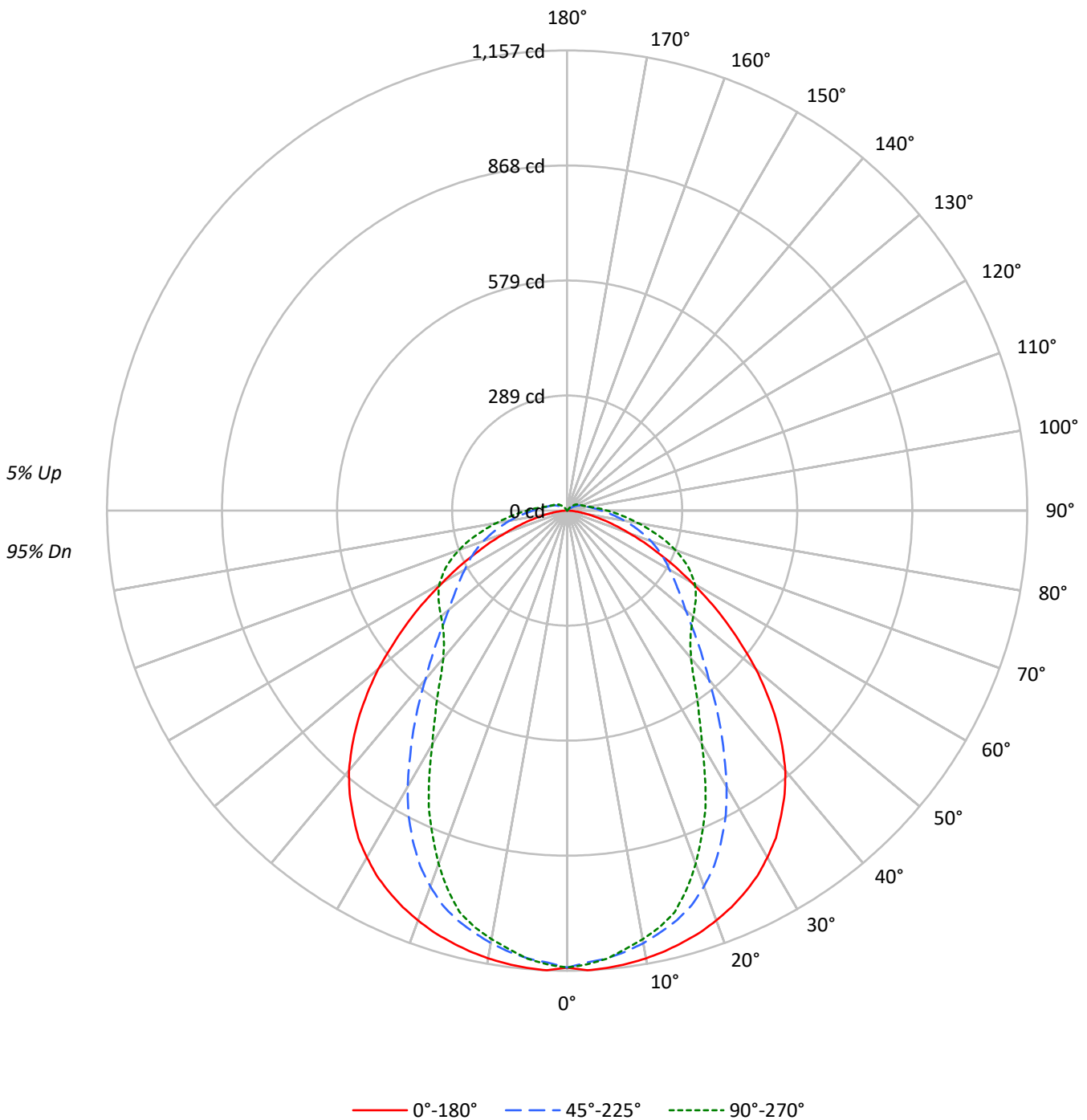
Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	74206	74206	74206
5°	74548	58630	54334
10°	74417	48158	42071
15°	74316	40368	33724
20°	74241	33879	26449
25°	73991	28016	20471
30°	73310	22572	15276
35°	71818	17701	11780
40°	69509	13762	9372
45°	65173	10931	8021
50°	59327	8859	7211
55°	51808	7494	6621
60°	43538	6454	6048
65°	35491	5606	5361
70°	28109	4774	4548
75°	21249	3940	3674
80°	14831	3158	2837
85°	8684	2470	2159



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	4.0
10°-20°	302.5	11.1
20°-30°	425.3	15.6
30°-40°	445.4	16.4
40°-50°	403.2	14.8
50°-60°	343.2	12.6
60°-70°	271.4	10.0
70°-80°	184.8	6.8
80°-90°	105.4	3.9
90°-100°	58.5	2.1
100°-110°	35.7	1.3
110°-120°	21.7	0.8
120°-130°	11.8	0.4
130°-140°	3.5	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°	835.7	30.7
0°-40°	1281.1	47.1
0°-60°	2027.5	74.5
0°-90°	2589.1	95.2
90°-120°	115.9	4.3
90°-150°	131.3	4.8
90°-180°	131.0	4.8
0°-180°	2720.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1149	1149	1149	1149	1149	
5°	1154	1147	1130	1136	1131	110
15°	1124	1102	1066	1055	1045	318
25°	1058	1006	917	846	823	488
35°	938	832	674	590	568	586
45°	743	590	462	438	439	571
55°	488	372	338	377	395	436
65°	253	220	262	319	336	255
75°	98	120	184	226	234	107
85°	17	57	112	134	136	21
90°	0	40	86	100	100	1
95°	1	30	68	75	74	0
105°	1	18	45	47	45	1
115°	1	2	30	36	35	0
125°	0	1	14	24	26	0
135°	1	1	1	10	13	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°	1149.0	1149.0	1149.0	1149.0	1149.0
2.5°	1156.9	1150.6	1137.4	1145.9	1142.1
5°	1154.1	1146.8	1130.5	1135.5	1131.4
7.5°	1149.7	1139.9	1118.9	1120.4	1112.6
10°	1143.1	1130.5	1104.4	1101.6	1094.0
12.5°	1134.6	1117.3	1085.9	1082.1	1073.3
15°	1123.9	1102.5	1066.1	1055.1	1045.0
17.5°	1112.0	1084.9	1040.6	1016.1	998.8
20°	1096.6	1062.3	1005.7	970.2	945.1
22.5°	1079.3	1037.8	966.4	913.0	884.4
25°	1058.5	1006.0	917.1	846.1	823.1
27.5°	1035.6	973.0	863.4	780.4	749.9
30°	1006.7	931.2	802.1	713.1	677.9
32.5°	976.5	886.3	735.4	645.9	618.5
35°	937.5	831.9	673.8	589.6	567.9
37.5°	898.2	773.8	612.6	539.3	520.2
40°	853.3	715.0	554.7	497.8	484.3
42.5°	799.9	655.3	505.7	463.0	458.2
45°	743.3	590.2	461.7	437.5	439.1
47.5°	681.7	531.2	421.8	417.1	424.9
50°	619.8	476.2	388.5	401.7	413.9
52.5°	551.0	423.0	362.1	389.1	403.9
55°	487.5	372.1	338.2	377.1	394.7
57.5°	424.3	328.7	317.4	364.9	383.4
60°	361.4	289.1	297.3	351.7	371.2
62.5°	306.7	251.4	279.7	336.9	353.9
65°	253.0	219.7	261.5	319.3	336.0
67.5°	208.4	191.4	243.3	298.3	313.3
70°	165.9	164.7	223.8	275.0	288.8
72.5°	129.5	140.5	203.3	250.8	264.0
75°	98.4	119.7	184.2	226.3	234.5
77.5°	72.0	100.3	164.7	201.5	207.1
80°	49.3	83.3	146.1	176.6	180.7
82.5°	31.1	68.8	128.2	154.3	157.1
85°	17.3	56.9	112.2	134.2	136.1
87.5°	6.6	46.8	97.7	116.6	118.2
90°	0.3	39.6	85.8	99.9	99.9
92.5°	0.3	34.6	76.1	86.7	87.4
95°	0.6	30.5	67.6	74.8	74.2
97.5°	0.6	27.7	59.7	65.7	63.8
100°	0.6	25.1	53.7	57.8	55.9
102.5°	0.6	22.3	49.0	51.5	49.3
105°	0.6	18.5	45.3	47.1	45.3
107.5°	0.6	14.8	41.2	43.7	41.8
110°	0.6	11.0	37.4	40.5	39.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	6.9	33.9	37.7	36.8
115°	0.6	2.5	30.5	35.5	34.6
117.5°	0.3	1.3	26.1	33.0	32.7
120°	0.3	0.9	22.0	30.8	30.8
122.5°	0.3	0.9	18.2	27.7	28.9
125°	0.3	0.6	13.8	24.5	26.1
127.5°	0.3	0.6	9.7	21.4	23.3
130°	0.3	0.6	5.0	17.6	20.1
132.5°	0.3	0.6	0.6	13.8	16.7
135°	0.6	0.6	0.6	10.1	13.2
137.5°	0.6	0.6	0.6	5.3	9.4
140°	0.6	0.6	0.3	0.3	4.4
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)