

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: P290406

Luminaire Tested: **8SSRK-SLN-60-L940-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290406  
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: 8SSRK-SLN-60-L940-CD1-U  
Description: 6000 LUMEN, 8 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: 5439.4 lumens  
Efficiency: N/A  
Efficacy: 131.4 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

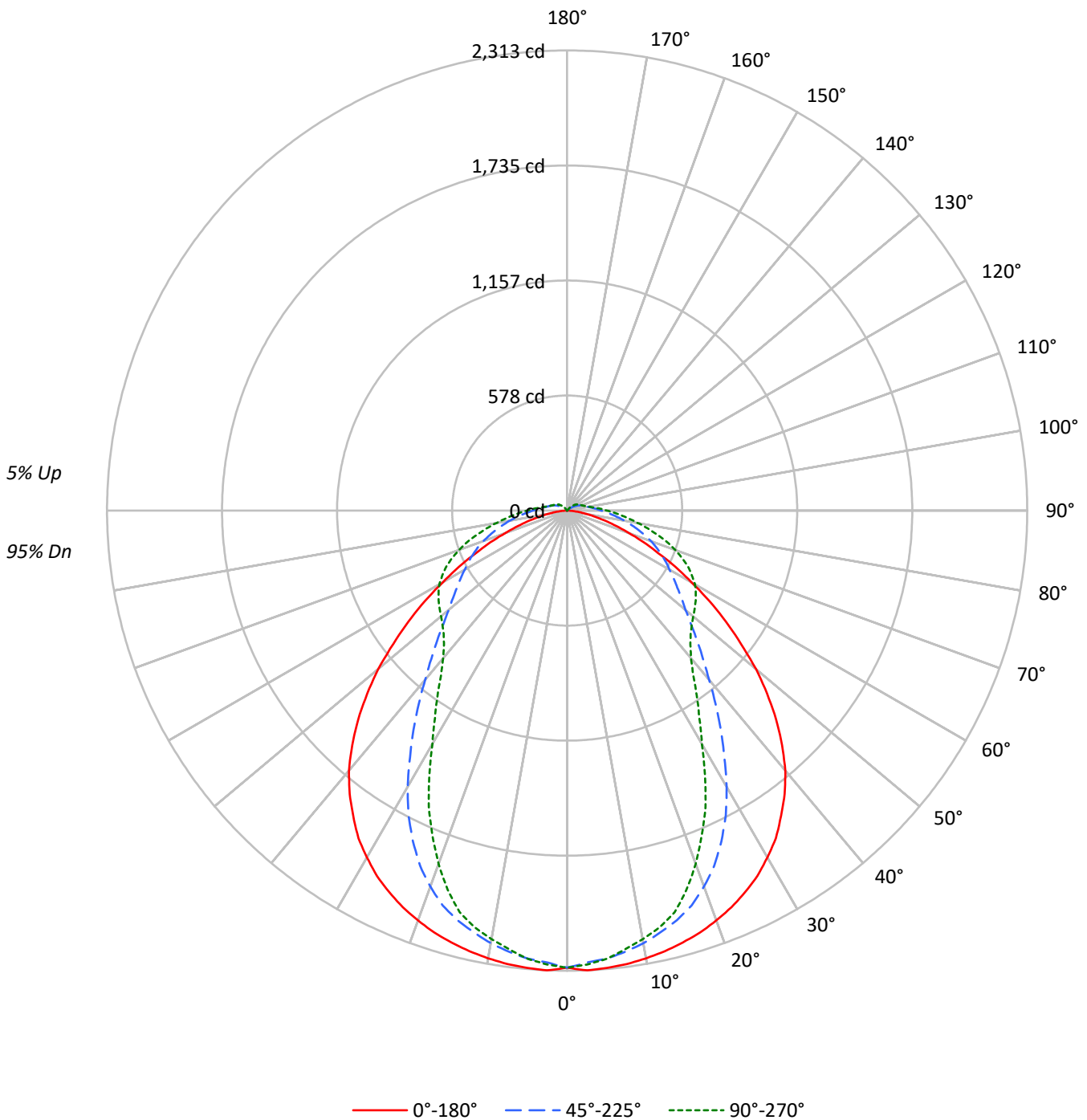
Input Watts (W): 41.3831  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	74190	74190	74190
5°	74661	58675	54322
10°	74666	48228	42061
15°	74708	40447	33716
20°	74776	33960	26440
25°	74685	28091	20466
30°	74159	22638	15272
35°	72835	17758	11777
40°	70683	13810	9371
45°	66485	10969	8018
50°	60745	8892	7209
55°	53289	7523	6620
60°	45049	6481	6046
65°	37002	5628	5359
70°	29631	4794	4548
75°	22771	3958	3672
80°	16415	3173	2837
85°	10354	2481	2158



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.7	4.0
10°-20°	604.8	11.1
20°-30°	850.4	15.6
30°-40°	890.5	16.4
40°-50°	806.3	14.8
50°-60°	686.2	12.6
60°-70°	542.6	10.0
70°-80°	369.5	6.8
80°-90°	210.8	3.9
90°-100°	116.9	2.1
100°-110°	71.4	1.3
110°-120°	43.4	0.8
120°-130°	23.5	0.4
130°-140°	7.1	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°	1670.9	30.7
0°-40°	2561.4	47.1
0°-60°	4053.9	74.5
0°-90°	5176.8	95.2
90°-120°	231.8	4.3
90°-150°	262.6	4.8
90°-180°	263.0	4.8
0°-180°	5439.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2298	2298	2298	2298	2298	
5°	2308	2293	2260	2270	2262	220
15°	2247	2204	2132	2110	2090	635
25°	2116	2012	1834	1692	1646	975
35°	1875	1663	1347	1179	1136	1171
45°	1486	1180	923	875	878	1141
55°	975	744	676	754	789	872
65°	506	439	523	638	672	509
75°	197	239	368	452	469	215
85°	35	114	224	268	272	42
90°	1	79	172	200	200	2
95°	1	61	135	150	148	1
105°	1	37	90	94	90	1
115°	1	5	61	71	69	1
125°	1	1	28	49	52	1
135°	1	1	1	20	26	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2297.5	2297.5	2297.5	2297.5	2297.5
2.5°	2313.2	2300.6	2274.2	2291.2	2283.7
5°	2307.5	2293.1	2260.4	2270.5	2262.3
7.5°	2298.7	2279.3	2237.2	2240.3	2224.6
10°	2285.5	2260.4	2208.2	2202.6	2187.5
12.5°	2268.6	2234.0	2171.2	2163.6	2146.0
15°	2247.2	2204.5	2131.6	2109.6	2089.5
17.5°	2223.3	2169.3	2080.7	2031.7	1997.1
20°	2192.5	2124.0	2010.9	1939.9	1889.6
22.5°	2158.0	2075.0	1932.4	1825.5	1768.4
25°	2116.5	2011.6	1833.7	1691.7	1645.8
27.5°	2070.6	1945.6	1726.3	1560.4	1499.4
30°	2012.8	1862.0	1603.7	1425.9	1355.5
32.5°	1952.5	1772.1	1470.5	1291.4	1236.7
35°	1874.6	1663.4	1347.3	1178.9	1135.5
37.5°	1796.0	1547.2	1224.8	1078.4	1040.0
40°	1706.1	1429.6	1109.2	995.4	968.4
42.5°	1599.3	1310.2	1011.1	925.7	916.2
45°	1486.2	1180.2	923.1	874.8	877.9
47.5°	1363.0	1062.0	843.3	833.9	849.6
50°	1239.2	952.0	776.7	803.1	827.6
52.5°	1101.6	845.8	723.9	778.0	807.5
55°	974.7	744.0	676.2	754.1	789.3
57.5°	848.4	657.3	634.7	729.6	766.7
60°	722.7	578.1	594.5	703.2	742.2
62.5°	613.3	502.7	559.3	673.7	707.6
65°	505.9	439.3	522.8	638.5	671.8
67.5°	416.6	382.7	486.4	596.4	626.5
70°	331.8	329.3	447.4	549.9	577.5
72.5°	258.9	280.9	406.6	501.5	527.9
75°	196.7	239.4	368.3	452.5	468.8
77.5°	143.9	200.5	329.3	402.8	414.1
80°	98.7	166.5	292.2	353.2	361.3
82.5°	62.2	137.6	256.4	308.6	314.2
85°	34.6	113.7	224.3	268.3	272.1
87.5°	13.2	93.6	195.4	233.1	236.3
90°	0.6	79.2	171.6	199.8	199.8
92.5°	0.6	69.1	152.1	173.4	174.7
95°	1.3	61.0	135.1	149.6	148.3
97.5°	1.3	55.3	119.4	131.3	127.6
100°	1.3	50.3	107.5	115.6	111.9
102.5°	1.3	44.6	98.0	103.1	98.7
105°	1.3	37.1	90.5	94.3	90.5
107.5°	1.3	29.5	82.3	87.3	83.6
110°	1.3	22.0	74.8	81.1	77.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	13.8	67.9	75.4	73.5
115°	1.3	5.0	61.0	71.0	69.1
117.5°	0.6	2.5	52.2	66.0	65.4
120°	0.6	1.9	44.0	61.6	61.6
122.5°	0.6	1.9	36.4	55.3	57.8
125°	0.6	1.3	27.7	49.0	52.2
127.5°	0.6	1.3	19.5	42.7	46.5
130°	0.6	1.3	10.1	35.2	40.2
132.5°	0.6	1.3	1.3	27.7	33.3
135°	1.3	1.3	1.3	20.1	26.4
137.5°	1.3	1.3	1.3	10.7	18.9
140°	1.3	1.3	0.6	0.6	8.8
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)