

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: P290110

Luminaire Tested: **4SSRK-LN-60-L940-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290110  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-10)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SSRK-LN-60-L940-CD1-U  
Description: 6000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 90 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5387.8 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

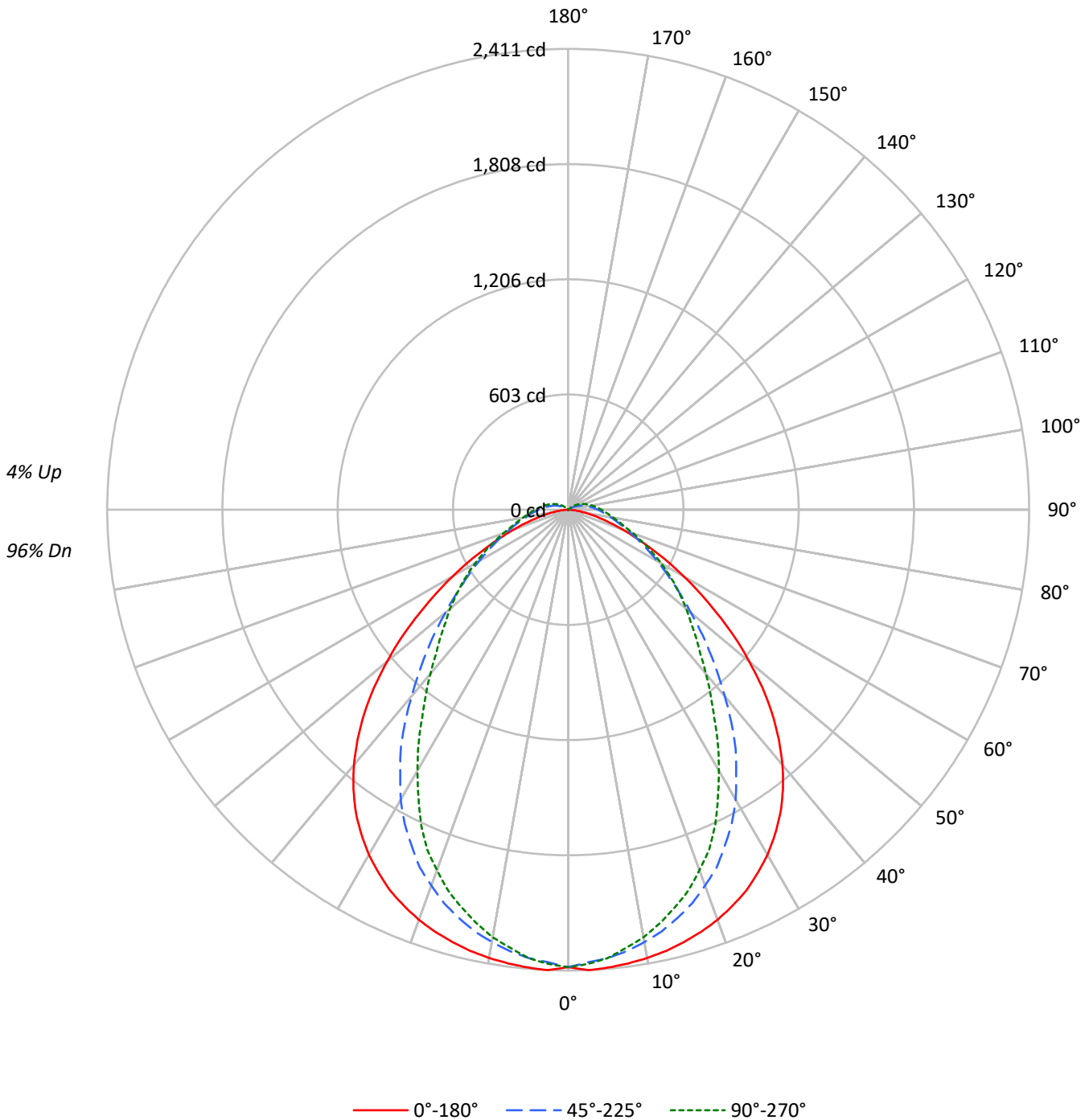
Input Watts (W): 44.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	81				
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	69				
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	59				
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	52				
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	46				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	47	43	41				
7	67	54	46	40	65	53	46	40	52	45	39	50	44	39	48	43	38	36				
8	63	50	42	36	61	49	41	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	38	33	57	45	38	33	44	37	32	43	36	32	41	36	32	30				
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	27				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	154560	154560	154560
5°	155323	122146	113105
10°	155018	100158	87357
15°	154814	83713	69505
20°	154561	70484	56158
25°	153825	59231	45244
30°	151812	49286	35511
35°	148294	40134	27640
40°	142097	31599	21717
45°	132337	24693	17259
50°	118272	19087	14053
55°	101480	14855	11415
60°	84041	11651	9177
65°	66493	9168	7248
70°	51321	7259	5698
75°	37769	5895	4537
80°	26503	4861	3761
85°	15259	4101	3205



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.7	4.2
10°-20°	629.2	11.7
20°-30°	906.8	16.8
30°-40°	982.2	18.2
40°-50°	870.0	16.1
50°-60°	662.0	12.3
60°-70°	441.0	8.2
70°-80°	272.5	5.1
80°-90°	170.7	3.2
90°-100°	112.2	2.1
100°-110°	68.7	1.3
110°-120°	35.5	0.7
120°-130°	11.7	0.2
130°-140°	0.7	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1760.6	32.7
0°-40°	2742.9	50.9
0°-60°	4274.8	79.3
0°-90°	5159.1	95.8
90°-120°	216.4	4.0
90°-150°	228.7	4.2
90°-180°	229.0	4.3
0°-180°	5387.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2393	2393	2393	2393	2393	
5°	2405	2389	2355	2364	2355	229
15°	2341	2297	2211	2181	2154	661
25°	2201	2097	1939	1856	1819	1012
35°	1936	1754	1528	1384	1332	1206
45°	1509	1273	1043	964	945	1158
55°	955	779	670	679	680	858
65°	474	416	428	452	454	479
75°	175	213	276	294	290	193
85°	30	110	186	205	202	37
90°	1	80	155	175	174	2
95°	3	56	129	149	148	2
105°	2	22	80	103	105	2
115°	2	2	41	64	70	2
125°	1	1	1	28	35	1
135°	0	0	0	0	0	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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CATALOG NUMBER: 4SSRK-LN-60-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2393.2	2393.2	2393.2	2393.2	2393.2
2.5°	2411.0	2397.7	2370.4	2386.3	2378.7
5°	2404.6	2389.4	2355.2	2364.1	2355.2
7.5°	2394.5	2375.5	2329.9	2333.7	2312.8
10°	2381.2	2355.9	2296.9	2290.6	2271.6
12.5°	2364.1	2328.6	2259.5	2234.2	2215.8
15°	2341.3	2296.9	2210.8	2181.0	2153.7
17.5°	2315.3	2258.3	2158.2	2122.0	2089.7
20°	2283.0	2211.4	2092.3	2042.2	2006.7
22.5°	2243.7	2160.1	2027.0	1954.1	1925.6
25°	2200.6	2097.3	1938.9	1855.9	1819.2
27.5°	2144.2	2028.3	1852.1	1748.2	1695.6
30°	2084.7	1946.5	1751.4	1631.6	1575.9
32.5°	2013.1	1857.2	1634.8	1507.4	1458.0
35°	1935.8	1754.5	1527.7	1383.9	1332.5
37.5°	1844.5	1643.6	1400.3	1268.5	1223.5
40°	1744.4	1523.3	1273.6	1157.7	1122.2
42.5°	1630.3	1401.0	1154.5	1054.4	1024.0
45°	1509.3	1273.0	1043.0	963.8	944.8
47.5°	1377.5	1145.0	938.4	882.0	868.1
50°	1235.6	1017.0	837.0	806.0	806.6
52.5°	1100.6	896.0	750.9	742.6	740.7
55°	954.9	779.4	670.4	678.6	680.5
57.5°	823.1	671.0	602.0	617.2	619.1
60°	697.6	574.1	536.7	560.1	563.3
62.5°	582.9	491.1	480.9	505.0	504.4
65°	474.0	415.7	427.7	452.4	454.3
67.5°	381.4	354.2	383.3	404.9	403.6
70°	302.9	299.1	340.3	363.1	361.8
72.5°	235.7	252.8	306.7	326.3	321.3
75°	174.9	212.9	275.6	294.0	289.6
77.5°	128.6	180.0	248.4	266.1	263.0
80°	88.1	152.7	224.9	243.3	239.5
82.5°	56.4	129.9	204.7	222.4	219.9
85°	30.4	109.6	186.3	205.3	202.1
87.5°	11.4	93.1	169.8	188.8	187.6
90°	1.3	79.8	155.2	174.9	173.6
92.5°	1.9	67.8	141.3	161.6	161.6
95°	3.2	56.4	128.6	148.9	148.3
97.5°	2.5	47.5	114.7	136.9	136.9
100°	2.5	39.3	102.0	124.2	125.5
102.5°	2.5	31.0	91.2	112.8	115.3
105°	1.9	22.2	80.5	102.6	105.2
107.5°	1.9	12.7	69.7	93.1	96.3
110°	1.9	3.2	60.2	83.0	86.8



TEST NUMBER: P290110

CATALOG NUMBER: 4SSRK-LN-60-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	1.9	50.7	73.5	77.3
115°	1.9	1.9	41.2	64.0	69.7
117.5°	1.3	1.3	30.4	55.8	60.8
120°	1.3	1.3	19.0	46.9	52.0
122.5°	1.3	1.3	8.2	37.4	44.4
125°	1.3	1.3	1.3	27.9	34.8
127.5°	1.3	1.3	0.6	16.5	24.7
130°	1.3	1.3	0.6	6.3	15.2
132.5°	1.3	1.3	0.6	0.6	4.4
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
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)