

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: P290102

Luminaire Tested: **4SSRK-LN-40-L940-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290102  
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-40-L940-CD1-U  
Description: 4000 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: 3553.4 lumens  
Efficiency: N/A  
Efficacy: 128.3 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

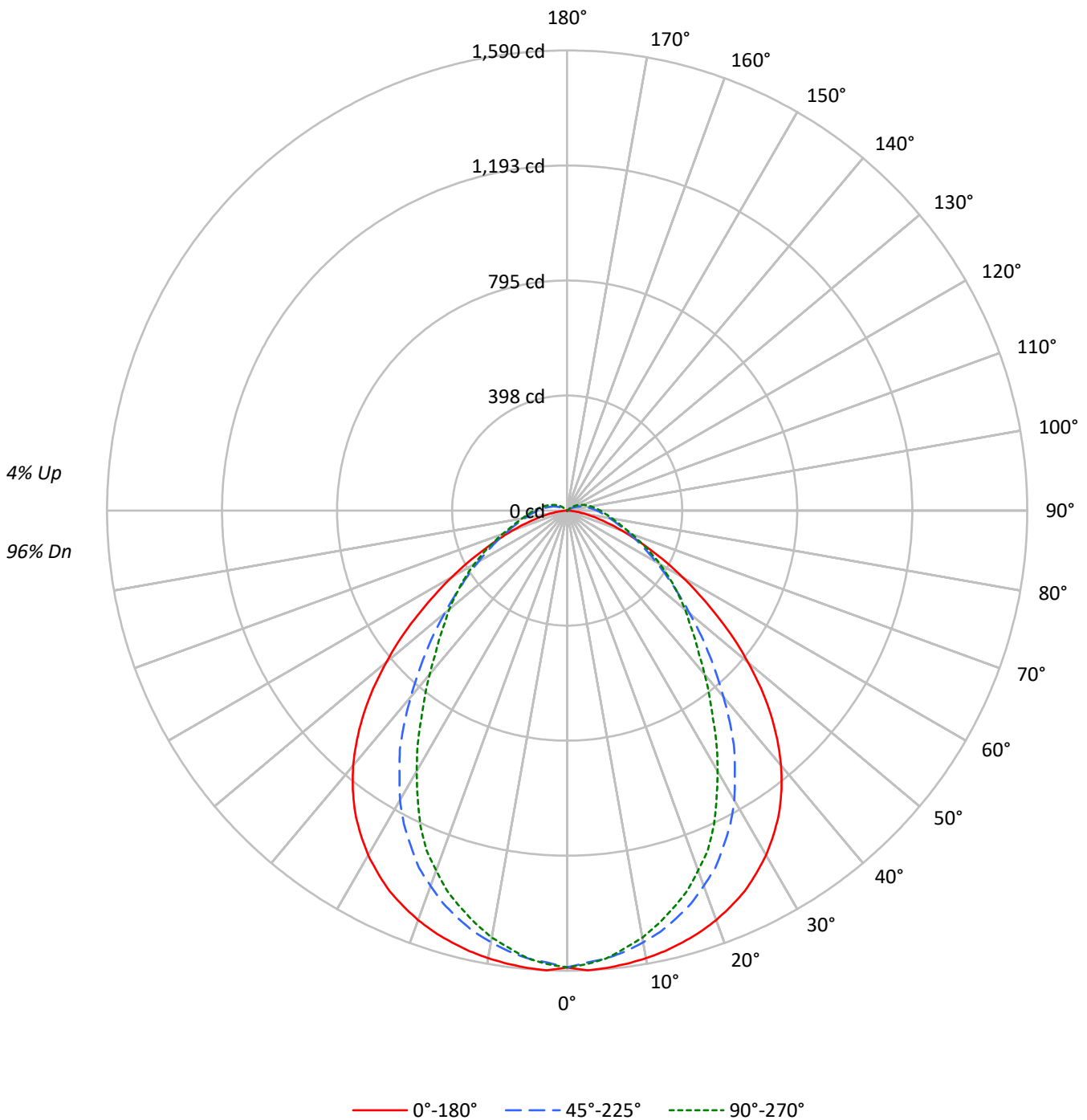
Input Watts (W): 27.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	101938	101938	101938
5°	102440	80558	74595
10°	102241	66058	57615
15°	102100	55211	45839
20°	101937	46485	37038
25°	101455	39066	29840
30°	100123	32506	23420
35°	97803	26470	18229
40°	93719	20841	14323
45°	87277	16286	11382
50°	78002	12588	9269
55°	66931	9796	7528
60°	55429	7685	6052
65°	43852	6047	4780
70°	33852	4787	3758
75°	24899	3889	2992
80°	17478	3207	2481
85°	10089	2705	2114



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.2	4.2
10°-20°	415.0	11.7
20°-30°	598.0	16.8
30°-40°	647.8	18.2
40°-50°	573.8	16.1
50°-60°	436.6	12.3
60°-70°	290.9	8.2
70°-80°	179.7	5.1
80°-90°	112.6	3.2
90°-100°	74.0	2.1
100°-110°	45.3	1.3
110°-120°	23.4	0.7
120°-130°	7.7	0.2
130°-140°	0.5	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°	1161.2	32.7
0°-40°	1809.0	50.9
0°-60°	2819.4	79.3
0°-90°	3402.5	95.8
90°-120°	142.7	4.0
90°-150°	150.9	4.2
90°-180°	151.0	4.2
0°-180°	3553.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1578	1578	1578	1578	1578	
5°	1586	1576	1553	1559	1553	151
15°	1544	1515	1458	1438	1420	436
25°	1451	1383	1279	1224	1200	668
35°	1277	1157	1008	913	879	796
45°	995	840	688	636	623	764
55°	630	514	442	448	449	566
65°	313	274	282	298	300	316
75°	115	140	182	194	191	128
85°	20	72	123	135	133	24
90°	1	53	102	115	114	1
95°	2	37	85	98	98	1
105°	1	15	53	68	69	2
115°	1	1	27	42	46	1
125°	1	1	1	18	23	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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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1578.4	1578.4	1578.4	1578.4	1578.4
2.5°	1590.1	1581.3	1563.4	1573.8	1568.8
5°	1585.9	1575.9	1553.3	1559.2	1553.3
7.5°	1579.2	1566.7	1536.6	1539.1	1525.3
10°	1570.5	1553.8	1514.9	1510.7	1498.2
12.5°	1559.2	1535.8	1490.2	1473.5	1461.4
15°	1544.1	1514.9	1458.1	1438.4	1420.4
17.5°	1527.0	1489.4	1423.4	1399.5	1378.2
20°	1505.7	1458.5	1379.9	1346.9	1323.5
22.5°	1479.8	1424.6	1336.9	1288.8	1270.0
25°	1451.4	1383.3	1278.8	1224.0	1199.8
27.5°	1414.2	1337.7	1221.5	1153.0	1118.3
30°	1374.9	1283.8	1155.1	1076.1	1039.3
32.5°	1327.7	1224.9	1078.2	994.2	961.6
35°	1276.7	1157.2	1007.6	912.7	878.8
37.5°	1216.5	1084.0	923.6	836.6	807.0
40°	1150.5	1004.6	840.0	763.5	740.1
42.5°	1075.3	924.0	761.4	695.4	675.3
45°	995.4	839.6	687.9	635.6	623.1
47.5°	908.5	755.1	618.9	581.7	572.5
50°	814.9	670.7	552.0	531.6	532.0
52.5°	725.9	590.9	495.2	489.8	488.5
55°	629.8	514.0	442.1	447.6	448.8
57.5°	542.9	442.6	397.0	407.0	408.3
60°	460.1	378.6	354.0	369.4	371.5
62.5°	384.5	323.9	317.2	333.1	332.6
65°	312.6	274.1	282.1	298.4	299.6
67.5°	251.6	233.6	252.8	267.0	266.2
70°	199.8	197.2	224.4	239.5	238.6
72.5°	155.5	166.7	202.3	215.2	211.9
75°	115.3	140.4	181.8	193.9	191.0
77.5°	84.8	118.7	163.8	175.5	173.4
80°	58.1	100.7	148.4	160.5	158.0
82.5°	37.2	85.7	135.0	146.7	145.0
85°	20.1	72.3	122.9	135.4	133.3
87.5°	7.5	61.4	112.0	124.5	123.7
90°	0.8	52.7	102.4	115.3	114.5
92.5°	1.3	44.7	93.2	106.6	106.6
95°	2.1	37.2	84.8	98.2	97.8
97.5°	1.7	31.3	75.6	90.3	90.3
100°	1.7	25.9	67.3	81.9	82.7
102.5°	1.7	20.5	60.2	74.4	76.1
105°	1.3	14.6	53.1	67.7	69.4
107.5°	1.3	8.4	46.0	61.4	63.5
110°	1.3	2.1	39.7	54.7	57.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	1.3	33.4	48.5	51.0
115°	1.3	1.3	27.2	42.2	46.0
117.5°	0.8	0.8	20.1	36.8	40.1
120°	0.8	0.8	12.5	30.9	34.3
122.5°	0.8	0.8	5.4	24.7	29.3
125°	0.8	0.8	0.8	18.4	23.0
127.5°	0.8	0.8	0.4	10.9	16.3
130°	0.8	0.8	0.4	4.2	10.0
132.5°	0.8	0.8	0.4	0.4	2.9
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)