

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: P290098

Luminaire Tested: **4SSRK-LN-30-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290098  
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-30-L840-CD1-U  
Description: 3000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 80 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3158.9 lumens  
Efficiency: N/A  
Efficacy: 154.8 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

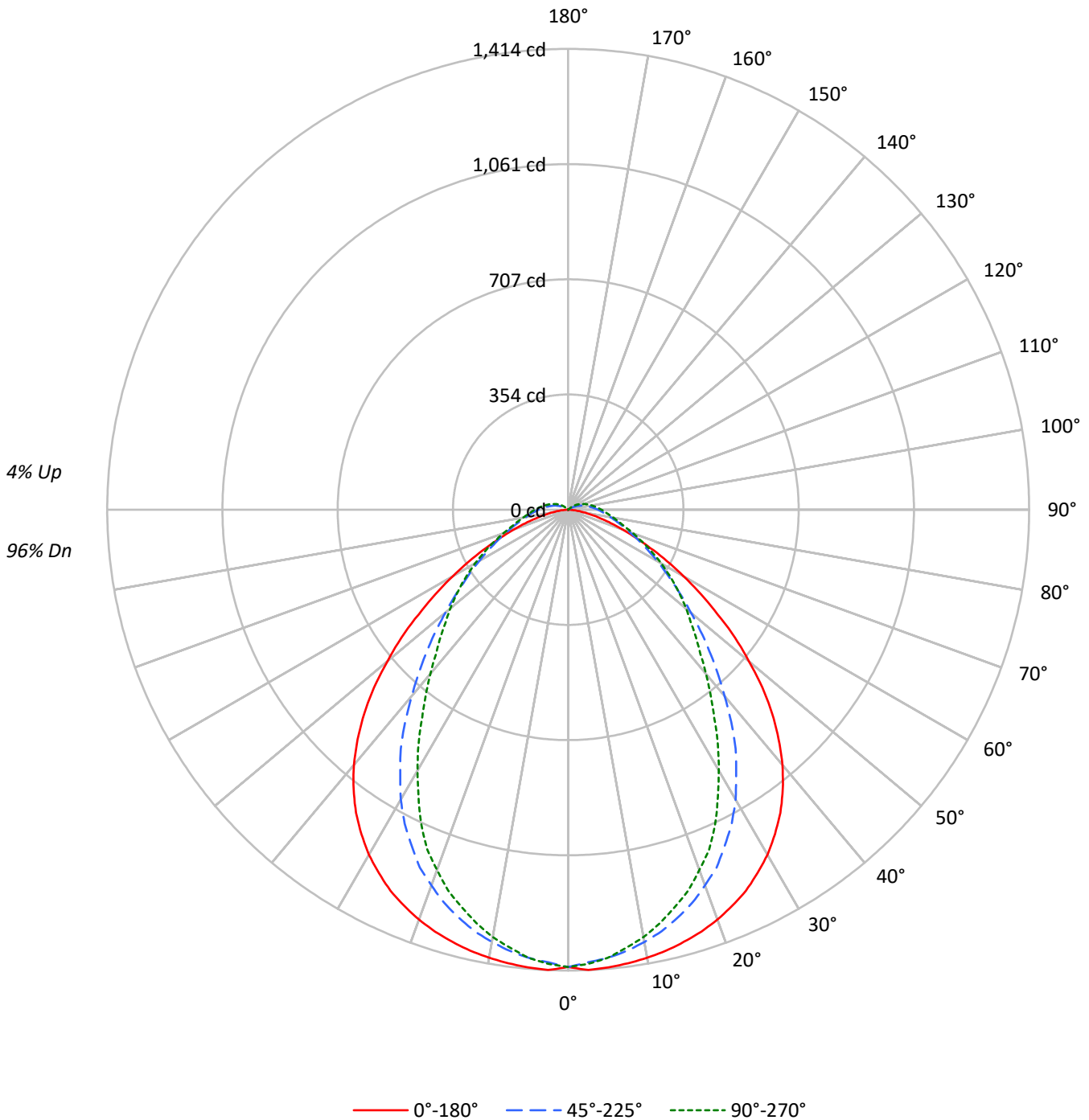
Input Watts (W): 20.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	90623	90623	90623
5°	91071	71617	66316
10°	90887	58724	51216
15°	90767	49081	40750
20°	90618	41324	32927
25°	90187	34728	26527
30°	89011	28895	20819
35°	86940	23531	16207
40°	83316	18526	12732
45°	77589	14477	10118
50°	69340	11192	8239
55°	59502	8710	6693
60°	49273	6832	5381
65°	38984	5376	4250
70°	30091	4256	3340
75°	22135	3457	2660
80°	15523	2851	2205
85°	8935	2404	1879



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.7	4.2
10°-20°	368.9	11.7
20°-30°	531.6	16.8
30°-40°	575.9	18.2
40°-50°	510.1	16.1
50°-60°	388.1	12.3
60°-70°	258.6	8.2
70°-80°	159.8	5.1
80°-90°	100.1	3.2
90°-100°	65.8	2.1
100°-110°	40.3	1.3
110°-120°	20.8	0.7
120°-130°	6.8	0.2
130°-140°	0.4	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°	1032.3	32.7
0°-40°	1608.2	50.9
0°-60°	2506.4	79.3
0°-90°	3024.8	95.8
90°-120°	126.9	4.0
90°-150°	134.1	4.2
90°-180°	134.0	4.2
0°-180°	3158.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1403	1403	1403	1403	1403	
5°	1410	1401	1381	1386	1381	134
15°	1373	1347	1296	1279	1263	388
25°	1290	1230	1137	1088	1067	594
35°	1135	1029	896	811	781	707
45°	885	746	612	565	554	679
55°	560	457	393	398	399	503
65°	278	244	251	265	266	281
75°	102	125	162	172	170	113
85°	18	64	109	120	118	22
90°	1	47	91	102	102	1
95°	2	33	75	87	87	1
105°	1	13	47	60	62	1
115°	1	1	24	38	41	1
125°	1	1	1	16	20	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°	1403.2	1403.2	1403.2	1403.2	1403.2
2.5°	1413.6	1405.8	1389.8	1399.1	1394.6
5°	1409.9	1400.9	1380.9	1386.1	1380.9
7.5°	1403.9	1392.8	1366.0	1368.3	1356.0
10°	1396.1	1381.3	1346.7	1343.0	1331.8
12.5°	1386.1	1365.3	1324.8	1309.9	1299.2
15°	1372.7	1346.7	1296.2	1278.7	1262.7
17.5°	1357.5	1324.0	1265.3	1244.2	1225.2
20°	1338.5	1296.6	1226.7	1197.4	1176.6
22.5°	1315.5	1266.5	1188.4	1145.7	1129.0
25°	1290.2	1229.7	1136.8	1088.1	1066.6
27.5°	1257.2	1189.2	1085.9	1025.0	994.1
30°	1222.3	1141.3	1026.8	956.6	923.9
32.5°	1180.3	1088.9	958.5	883.8	854.8
35°	1134.9	1028.7	895.7	811.4	781.3
37.5°	1081.5	963.7	821.0	743.8	717.4
40°	1022.8	893.1	746.7	678.7	657.9
42.5°	955.9	821.4	676.9	618.2	600.4
45°	884.9	746.4	611.5	565.1	553.9
47.5°	807.7	671.3	550.2	517.1	509.0
50°	724.4	596.3	490.8	472.6	472.9
52.5°	645.3	525.3	440.2	435.4	434.3
55°	559.9	457.0	393.1	397.9	399.0
57.5°	482.6	393.4	352.9	361.8	363.0
60°	409.0	336.6	314.7	328.4	330.3
62.5°	341.8	287.9	282.0	296.1	295.7
65°	277.9	243.7	250.8	265.3	266.4
67.5°	223.6	207.7	224.8	237.4	236.6
70°	177.6	175.4	199.5	212.9	212.1
72.5°	138.2	148.2	179.8	191.3	188.4
75°	102.5	124.8	161.6	172.4	169.8
77.5°	75.4	105.5	145.6	156.0	154.2
80°	51.6	89.5	131.9	142.7	140.4
82.5°	33.1	76.2	120.0	130.4	128.9
85°	17.8	64.3	109.2	120.4	118.5
87.5°	6.7	54.6	99.6	110.7	110.0
90°	0.7	46.8	91.0	102.5	101.8
92.5°	1.1	39.8	82.8	94.7	94.7
95°	1.9	33.1	75.4	87.3	86.9
97.5°	1.5	27.9	67.2	80.2	80.2
100°	1.5	23.0	59.8	72.8	73.6
102.5°	1.5	18.2	53.5	66.1	67.6
105°	1.1	13.0	47.2	60.2	61.7
107.5°	1.1	7.4	40.9	54.6	56.5
110°	1.1	1.9	35.3	48.7	50.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	1.1	29.7	43.1	45.3
115°	1.1	1.1	24.1	37.5	40.9
117.5°	0.7	0.7	17.8	32.7	35.7
120°	0.7	0.7	11.1	27.5	30.5
122.5°	0.7	0.7	4.8	21.9	26.0
125°	0.7	0.7	0.7	16.3	20.4
127.5°	0.7	0.7	0.4	9.7	14.5
130°	0.7	0.7	0.4	3.7	8.9
132.5°	0.7	0.7	0.4	0.4	2.6
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)