

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: P290274

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290274  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-16)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SSRK-SLC-30-L840-CD1-U  
Description: 3000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 80 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3326.2 lumens  
Efficiency: N/A  
Efficacy: 163.0 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

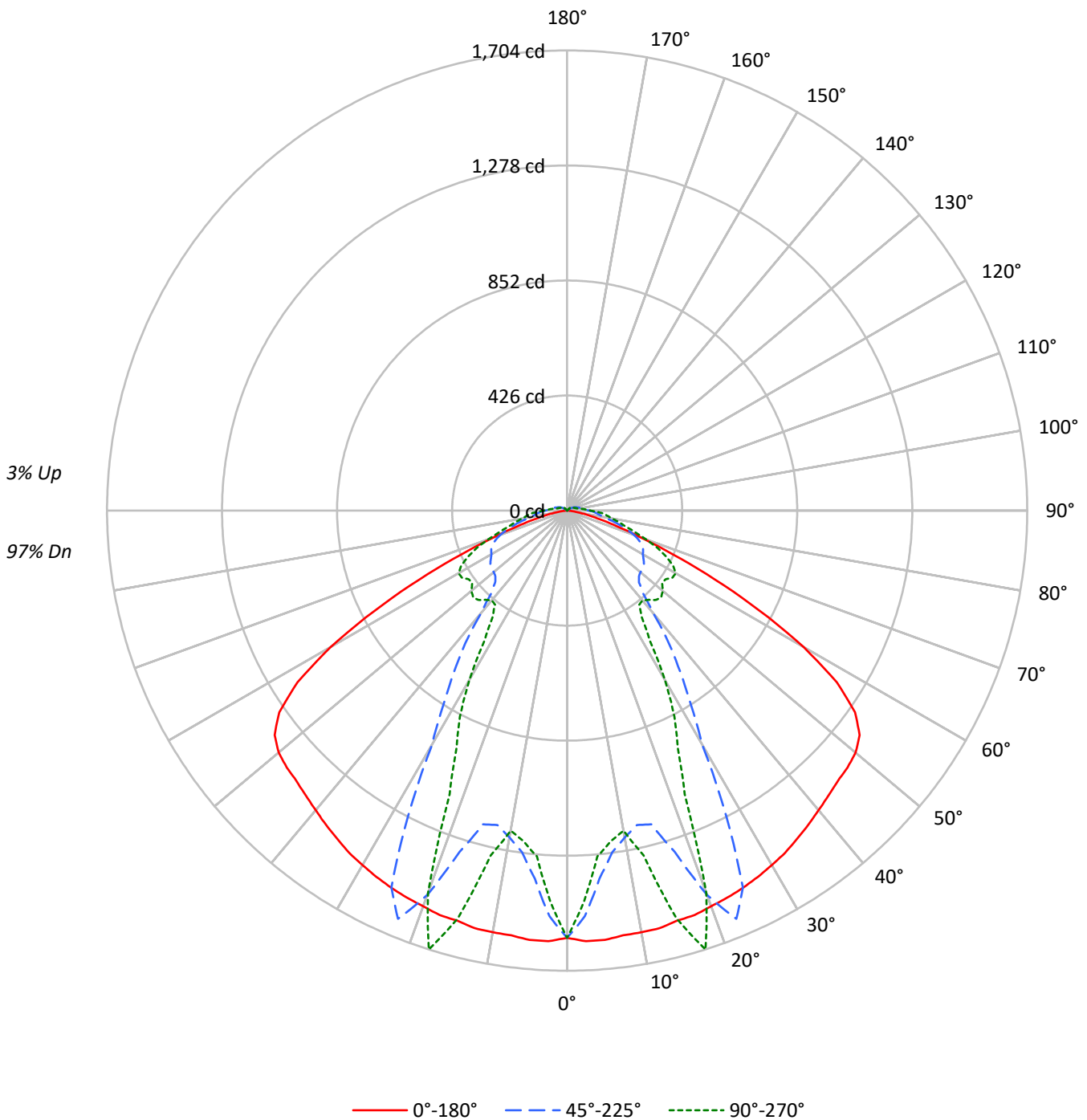
Input Watts (W): 20.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97	
1	108	103	99	95	105	101	97	93	96	93	90	91	89	87	87	85	83	87	85	83	81	
2	99	91	84	79	96	89	83	78	85	80	75	81	77	73	77	74	71	77	74	71	69	
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	65	61	69	65	61	59	
4	84	72	64	57	81	71	63	57	68	61	56	65	59	54	62	57	53	62	57	53	51	
5	77	65	56	50	75	64	56	50	61	54	49	59	53	48	57	51	47	57	51	47	45	
6	72	59	50	44	70	58	50	44	56	49	43	54	47	43	52	46	42	52	46	42	40	
7	67	54	45	40	65	53	45	39	51	44	39	49	43	38	48	42	38	48	42	38	36	
8	62	49	41	36	61	49	41	35	47	40	35	46	39	35	44	38	34	44	38	34	32	
9	58	46	38	32	57	45	37	32	44	37	32	42	36	32	41	35	31	41	35	31	29	
10	55	42	35	30	54	42	34	30	40	34	29	39	33	29	38	33	29	38	33	29	27	

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

	0°	45°	90°
0°	102164	102164	102164
5°	103092	70979	61749
10°	103224	53587	46274
15°	103959	45537	50451
20°	105532	51009	42168
25°	107718	47042	24087
30°	110377	28164	16317
35°	113699	19178	9988
40°	117961	12333	8397
45°	124235	8918	8538
50°	133463	8082	8051
55°	138304	7698	7446
60°	121821	7025	7566
65°	84632	6609	6473
70°	48661	5619	4868
75°	27188	4244	3462
80°	14981	2996	2677
85°	6726	2404	2192



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.4	4.0
10°-20°	394.7	11.9
20°-30°	580.9	17.5
30°-40°	567.5	17.1
40°-50°	470.5	14.1
50°-60°	431.9	13.0
60°-70°	342.3	10.3
70°-80°	190.1	5.7
80°-90°	100.7	3.0
90°-100°	52.9	1.6
100°-110°	31.9	1.0
110°-120°	18.2	0.5
120°-130°	10.0	0.3
130°-140°	3.2	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°	1107.0	33.3
0°-40°	1674.5	50.3
0°-60°	2577.0	77.5
0°-90°	3210.0	96.5
90°-120°	103.0	3.1
90°-150°	116.2	3.5
90°-180°	116.0	3.5
0°-180°	3326.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1582	1582	1582	1582	1582	
5°	1596	1506	1369	1310	1286	152
15°	1572	1256	1203	1473	1563	446
25°	1541	1199	1540	1050	968	712
35°	1484	1431	730	522	482	931
45°	1417	647	377	430	467	1099
55°	1301	288	347	416	444	1130
65°	603	187	308	391	406	611
75°	126	114	198	212	221	149
85°	13	56	109	133	138	18
90°	0	41	80	87	87	1
95°	1	32	62	65	62	1
105°	1	22	44	38	34	1
115°	1	3	28	27	25	1
125°	1	1	13	21	20	1
135°	1	1	1	9	11	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°	1581.9	1581.9	1581.9	1581.9	1581.9
2.5°	1596.0	1567.4	1503.8	1460.8	1446.3
5°	1596.0	1506.4	1368.6	1310.3	1285.8
7.5°	1586.3	1429.2	1276.1	1250.9	1234.9
10°	1585.6	1346.7	1228.9	1207.8	1203.3
12.5°	1583.7	1301.0	1192.5	1267.6	1308.1
15°	1572.2	1255.7	1202.6	1472.6	1563.3
17.5°	1570.3	1221.9	1324.4	1666.2	1704.5
20°	1558.8	1195.1	1514.2	1641.7	1506.8
22.5°	1551.4	1176.6	1636.5	1320.7	1137.2
25°	1541.0	1198.8	1539.9	1049.9	968.5
27.5°	1529.1	1270.5	1276.5	913.9	860.0
30°	1515.7	1382.7	1000.8	798.7	724.1
32.5°	1502.4	1464.8	851.9	655.7	568.0
35°	1484.2	1431.0	730.0	521.6	481.5
37.5°	1467.1	1275.0	618.9	450.3	438.7
40°	1448.1	1027.2	497.1	422.0	433.9
42.5°	1432.1	814.3	417.6	419.1	448.4
45°	1416.9	647.2	376.7	429.8	467.4
47.5°	1408.0	514.5	360.4	442.8	472.9
50°	1394.3	412.4	354.4	445.4	462.1
52.5°	1365.3	339.9	352.6	431.7	443.2
55°	1301.4	288.3	347.4	416.1	443.9
57.5°	1183.6	256.3	335.5	419.4	462.1
60°	1011.2	231.4	323.6	430.2	464.4
62.5°	804.7	208.8	317.3	421.3	442.5
65°	603.3	187.2	308.3	391.2	405.7
67.5°	422.4	168.7	288.3	353.7	361.5
70°	287.2	150.8	263.4	305.7	309.1
72.5°	193.2	133.0	232.6	256.3	261.5
75°	125.9	114.1	198.4	211.8	221.0
77.5°	80.2	97.0	164.6	181.7	193.6
80°	49.8	80.2	138.6	163.1	170.5
82.5°	27.9	66.9	120.0	145.6	149.7
85°	13.4	56.1	109.2	132.6	138.2
87.5°	3.3	47.6	96.2	110.0	110.0
90°	0.4	40.9	79.9	87.3	86.6
92.5°	0.4	36.0	69.5	74.3	72.8
95°	0.7	32.3	62.0	64.6	61.7
97.5°	0.7	30.5	57.2	55.4	50.9
100°	0.7	28.2	52.0	47.2	42.4
102.5°	0.7	25.3	47.6	41.6	37.5
105°	0.7	21.5	43.5	37.5	33.8
107.5°	0.7	17.1	39.0	34.2	31.2
110°	0.7	12.3	34.9	31.6	29.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	7.4	31.6	29.3	27.5
115°	0.7	2.6	28.2	26.7	24.9
117.5°	0.7	1.1	24.9	25.6	23.4
120°	0.7	1.1	20.8	24.1	22.3
122.5°	0.7	1.1	17.1	22.7	21.5
125°	0.7	0.7	13.0	20.8	20.4
127.5°	0.7	0.7	8.9	18.2	18.9
130°	0.7	0.7	4.5	14.9	16.7
132.5°	0.7	0.7	0.7	12.3	13.7
135°	0.7	0.7	0.7	8.9	11.1
137.5°	0.7	0.7	0.7	4.5	8.2
140°	0.7	0.7	0.7	0.7	3.3
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)