

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: P289920

Luminaire Tested: **4SSRK-LW-30-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289920  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SSRK-LW-30-L830-CD1-U  
Description: 3000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 80 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2716.7 lumens  
Efficiency: N/A  
Efficacy: 133.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct

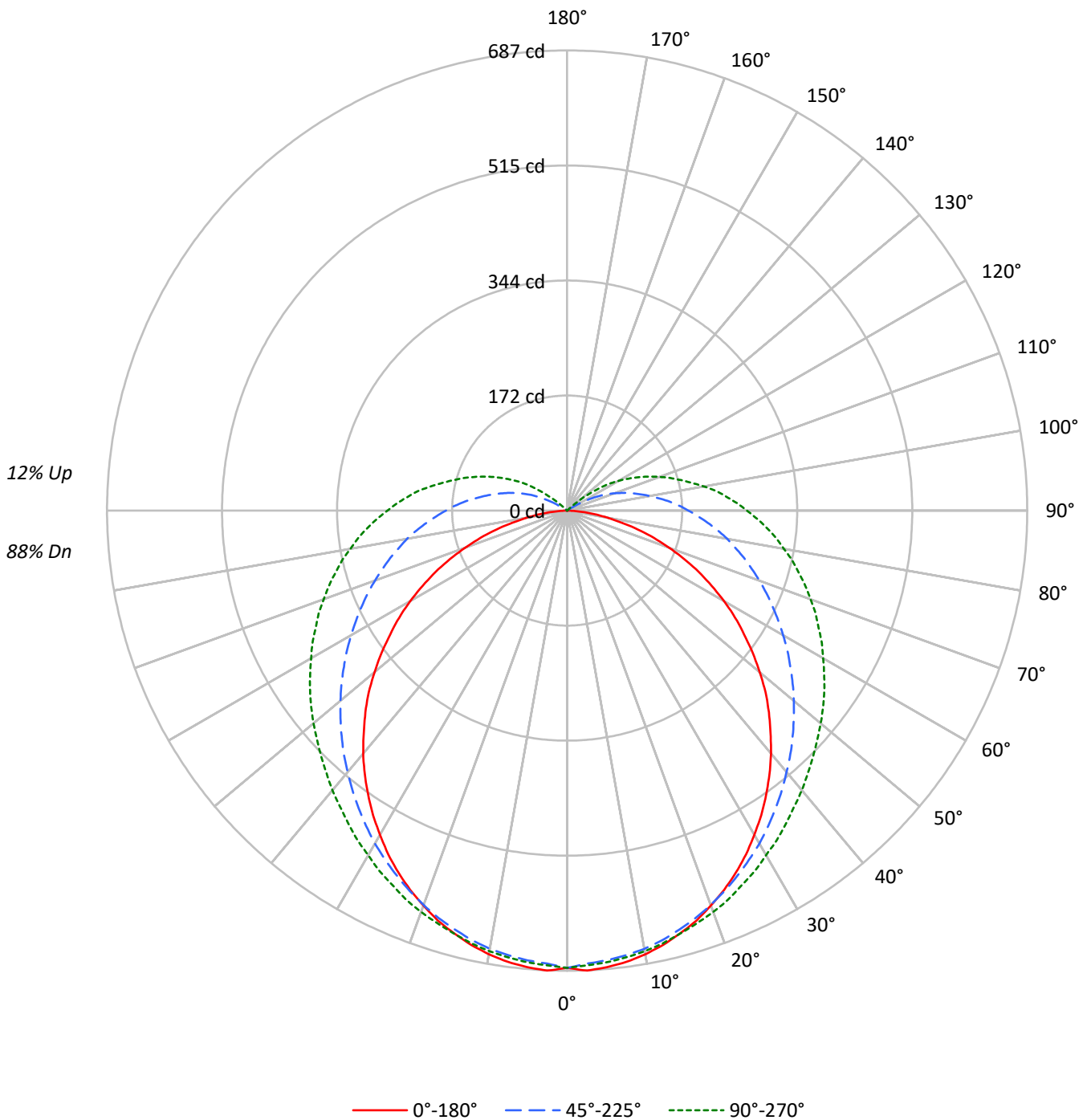
Input Watts (W): 20.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																				
0	116	116	116	116	112	112	112	112	105	105	105		98	98	98		91	91	91	88
1	103	97	92	87	99	94	89	84	87	83	79		81	78	75		75	73	71	67
2	93	83	75	68	89	80	73	67	74	68	63		69	64	60		65	61	57	54
3	84	72	63	56	80	70	61	54	65	58	52		60	54	50		56	51	47	44
4	76	63	54	47	73	61	52	46	57	50	44		53	47	42		50	44	40	37
5	70	56	47	40	67	54	46	39	51	43	37		48	41	36		45	39	34	32
6	65	50	41	34	62	49	40	34	46	38	32		43	36	31		40	35	30	28
7	60	46	36	30	57	44	36	30	42	34	28		39	32	27		37	31	26	24
8	55	41	33	27	53	40	32	26	38	31	25		36	29	24		34	28	24	21
9	52	38	30	24	50	37	29	23	35	28	23		33	27	22		31	25	21	19
10	49	35	27	21	47	34	26	21	32	25	21		31	24	20		29	23	19	17

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

	0°	45°	90°
0°	44091	44091	44091
5°	44189	34960	32512
10°	43787	28972	25689
15°	43198	24518	21093
20°	42476	21112	17849
25°	41675	18375	15345
30°	40693	16150	13385
35°	39674	14255	11822
40°	38587	12643	10551
45°	37343	11274	9486
50°	35924	10073	8610
55°	34273	9016	7862
60°	32576	8084	7191
65°	30427	7252	6607
70°	27499	6513	6092
75°	23646	5846	5608
80°	18260	5248	5160
85°	10993	4640	4750



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.5	2.4
10°-20°	184.0	6.8
20°-30°	279.0	10.3
30°-40°	340.5	12.5
40°-50°	366.8	13.5
50°-60°	360.2	13.3
60°-70°	325.5	12.0
70°-80°	271.0	10.0
80°-90°	207.8	7.7
90°-100°	150.5	5.5
100°-110°	97.2	3.6
110°-120°	52.4	1.9
120°-130°	16.6	0.6
130°-140°	0.6	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°	527.5	19.4
0°-40°	868.1	32.0
0°-60°	1595.1	58.7
0°-90°	2399.4	88.3
90°-120°	300.1	11.0
90°-150°	317.3	11.7
90°-180°	317.0	11.7
0°-180°	2716.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	683	683	683	683	683	
5°	684	682	674	679	677	65
15°	653	652	648	655	654	184
25°	596	597	602	614	617	275
35°	518	525	543	564	570	324
45°	426	442	476	507	519	328
55°	322	354	407	452	469	289
65°	217	264	338	395	414	214
75°	110	182	273	336	358	116
85°	22	111	211	276	300	26
90°	1	84	181	246	268	1
95°	1	61	153	217	238	1
105°	1	22	100	156	176	1
115°	1	1	50	100	118	1
125°	1	0	0	40	57	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°	682.7	682.7	682.7	682.7	682.7
2.5°	687.4	684.5	677.0	681.6	679.5
5°	684.1	681.6	674.1	679.1	677.0
7.5°	679.5	677.0	669.8	674.8	673.0
10°	672.6	670.1	664.4	669.4	668.0
12.5°	664.0	662.2	656.8	662.9	661.5
15°	653.3	651.8	647.5	654.7	653.6
17.5°	641.8	640.3	637.8	645.4	645.7
20°	627.4	627.0	626.7	636.4	637.8
22.5°	612.7	613.0	614.5	626.3	628.5
25°	596.2	596.9	601.5	614.5	617.0
27.5°	578.6	581.1	587.9	603.0	606.9
30°	558.8	563.1	573.9	589.7	594.0
32.5°	539.4	544.1	558.4	577.1	582.9
35°	517.9	524.7	542.6	564.2	569.9
37.5°	496.3	504.2	526.5	549.8	557.0
40°	473.7	484.1	509.6	535.8	545.2
42.5°	449.3	464.0	493.4	521.5	531.9
45°	425.9	442.1	476.2	507.4	519.3
47.5°	401.9	421.3	459.0	493.8	506.4
50°	375.3	398.6	441.7	480.2	494.2
52.5°	349.4	377.1	424.5	466.1	481.6
55°	322.5	354.5	406.9	452.1	468.7
57.5°	297.4	331.5	390.0	437.4	455.0
60°	270.4	309.2	372.4	423.8	441.4
62.5°	243.1	286.9	355.2	409.0	428.8
65°	216.9	264.0	338.3	395.0	414.1
67.5°	188.9	243.1	321.8	380.0	401.5
70°	162.3	221.6	305.3	365.6	386.8
72.5°	135.8	200.8	289.1	351.2	372.8
75°	109.5	181.7	273.3	336.5	358.0
77.5°	83.3	161.6	257.1	321.8	344.4
80°	60.7	144.0	242.8	306.7	328.6
82.5°	41.3	127.5	226.6	292.3	314.6
85°	21.9	111.3	210.8	276.5	299.5
87.5°	6.5	97.0	195.4	261.1	284.1
90°	0.7	83.7	181.0	246.0	268.3
92.5°	1.1	72.2	167.4	232.4	253.9
95°	1.4	60.7	153.3	217.3	238.5
97.5°	1.4	50.6	139.0	201.8	224.5
100°	1.4	40.9	125.3	186.0	206.9
102.5°	1.4	32.0	112.4	170.2	190.7
105°	1.4	21.5	99.8	156.2	175.6
107.5°	1.4	10.8	87.6	142.6	161.6
110°	1.4	2.2	75.4	128.6	146.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	1.4	63.6	113.8	132.5
115°	1.1	1.1	50.3	99.5	118.2
117.5°	1.1	1.1	35.9	86.2	103.1
120°	1.1	0.7	20.8	72.2	89.1
122.5°	0.7	0.7	6.8	56.0	74.3
125°	0.7	0.4	0.4	39.9	56.7
127.5°	0.7	0.4	0.0	22.3	38.4
130°	0.7	0.4	0.0	6.5	21.9
132.5°	0.7	0.4	0.0	0.0	4.7
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)