

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: P289922

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289922  
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-L840-CD1-U  
Description: 3000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 80 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2810.4 lumens  
Efficiency: N/A  
Efficacy: 137.8 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

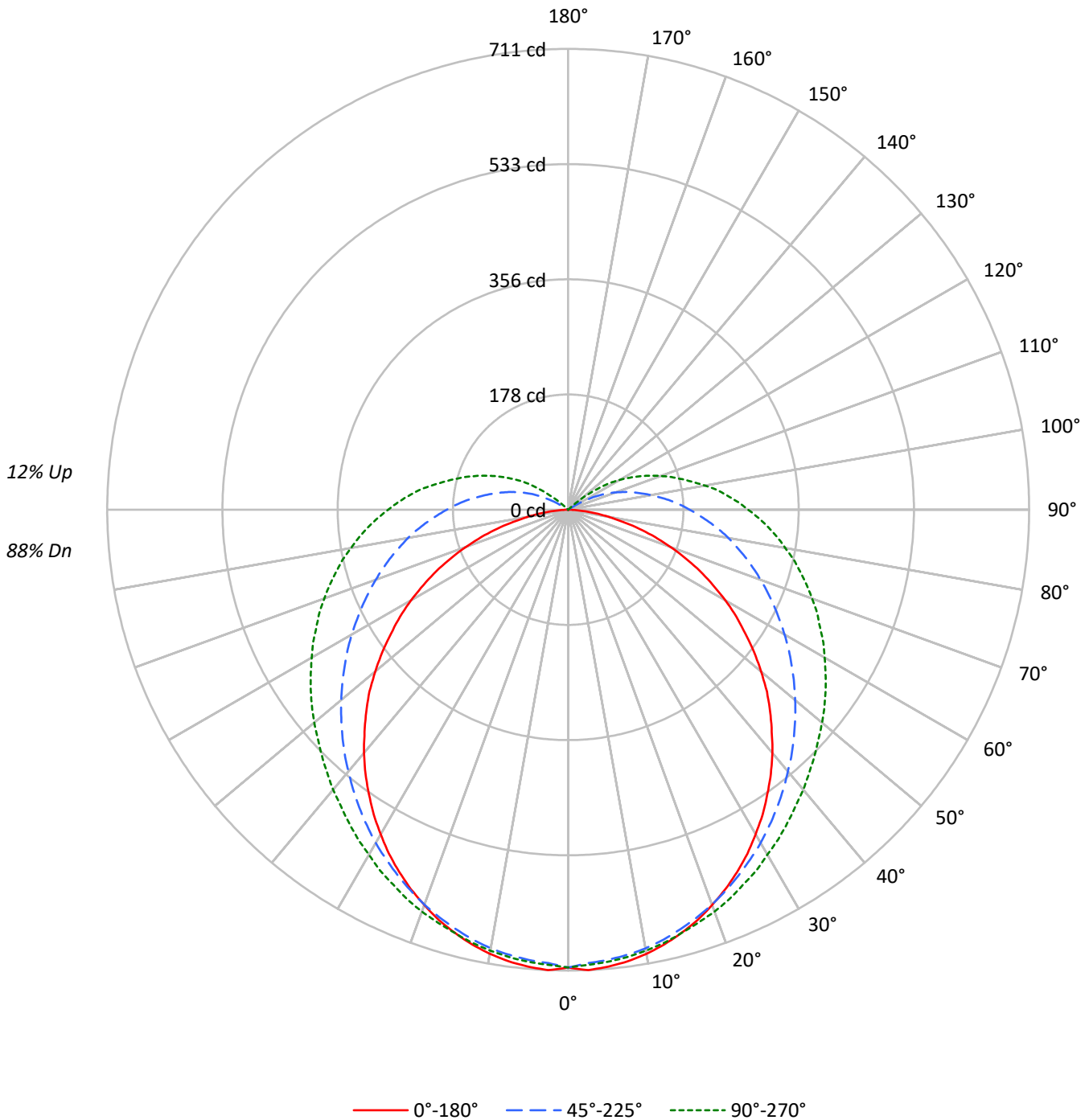
Input Watts (W): 20.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	45615	45615	45615
5°	45713	36164	33631
10°	45304	29970	26573
15°	44686	25362	21822
20°	43938	21839	18465
25°	43108	19010	15875
30°	42098	16707	13847
35°	41038	14748	12230
40°	39915	13080	10915
45°	38632	11662	9813
50°	37159	10422	8906
55°	35453	9326	8132
60°	33708	8364	7439
65°	31479	7503	6835
70°	28448	6737	6301
75°	24467	6047	5803
80°	18892	5427	5337
85°	11394	4801	4914



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.7	2.4
10°-20°	190.4	6.8
20°-30°	288.7	10.3
30°-40°	352.3	12.5
40°-50°	379.4	13.5
50°-60°	372.7	13.3
60°-70°	336.7	12.0
70°-80°	280.3	10.0
80°-90°	215.0	7.7
90°-100°	155.7	5.5
100°-110°	100.6	3.6
110°-120°	54.2	1.9
120°-130°	17.1	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°	545.7	19.4
0°-40°	898.0	32.0
0°-60°	1650.1	58.7
0°-90°	2482.2	88.3
90°-120°	310.5	11.0
90°-150°	328.2	11.7
90°-180°	328.0	11.7
0°-180°	2810.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	708	705	697	702	700	67
15°	676	674	670	677	676	191
25°	617	618	622	636	638	284
35°	536	543	561	584	590	335
45°	441	457	493	525	537	340
55°	334	367	421	468	485	299
65°	224	273	350	409	428	221
75°	113	188	283	348	370	120
85°	23	115	218	286	310	27
90°	1	87	187	254	278	1
95°	2	63	159	225	247	1
105°	2	22	103	162	182	2
115°	1	1	52	103	122	1
125°	1	0	0	41	59	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°	706.3	706.3	706.3	706.3	706.3
2.5°	711.1	708.1	700.3	705.1	702.9
5°	707.7	705.1	697.3	702.5	700.3
7.5°	702.9	700.3	692.9	698.1	696.2
10°	695.9	693.3	687.3	692.5	691.0
12.5°	686.9	685.1	679.5	685.8	684.3
15°	675.8	674.3	669.8	677.3	676.2
17.5°	663.9	662.4	659.8	667.6	668.0
20°	649.0	648.7	648.3	658.3	659.8
22.5°	633.8	634.2	635.7	647.9	650.2
25°	616.7	617.5	622.3	635.7	638.3
27.5°	598.5	601.1	608.2	623.8	627.9
30°	578.1	582.5	593.7	610.0	614.5
32.5°	558.0	562.8	577.7	597.0	603.0
35°	535.7	542.8	561.4	583.7	589.6
37.5°	513.4	521.6	544.6	568.8	576.2
40°	490.0	500.8	527.2	554.3	564.0
42.5°	464.8	480.0	510.5	539.4	550.2
45°	440.6	457.3	492.6	525.0	537.2
47.5°	415.7	435.8	474.8	510.8	523.8
50°	388.2	412.4	457.0	496.7	511.2
52.5°	361.5	390.1	439.1	482.2	498.2
55°	333.6	366.7	420.9	467.7	484.8
57.5°	307.6	342.9	403.5	452.5	470.7
60°	279.8	319.9	385.3	438.4	456.6
62.5°	251.5	296.8	367.4	423.2	443.6
65°	224.4	273.1	350.0	408.7	428.4
67.5°	195.4	251.5	332.9	393.1	415.4
70°	167.9	229.2	315.8	378.2	400.1
72.5°	140.4	207.7	299.1	363.3	385.6
75°	113.3	188.0	282.7	348.1	370.4
77.5°	86.2	167.2	266.0	332.9	356.3
80°	62.8	149.0	251.1	317.3	339.9
82.5°	42.7	131.9	234.4	302.4	325.4
85°	22.7	115.2	218.1	286.1	309.8
87.5°	6.7	100.3	202.1	270.1	293.9
90°	0.7	86.6	187.2	254.5	277.5
92.5°	1.1	74.7	173.1	240.4	262.7
95°	1.5	62.8	158.6	224.8	246.7
97.5°	1.5	52.4	143.8	208.8	232.2
100°	1.5	42.4	129.7	192.4	214.0
102.5°	1.5	33.1	116.3	176.1	197.3
105°	1.5	22.3	103.3	161.6	181.7
107.5°	1.5	11.1	90.7	147.5	167.2
110°	1.5	2.2	78.0	133.0	152.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	1.5	65.8	117.8	137.1
115°	1.1	1.1	52.0	102.9	122.2
117.5°	1.1	1.1	37.2	89.2	106.6
120°	1.1	0.7	21.5	74.7	92.1
122.5°	0.7	0.7	7.1	58.0	76.9
125°	0.7	0.4	0.4	41.2	58.7
127.5°	0.7	0.4	0.0	23.0	39.8
130°	0.7	0.4	0.0	6.7	22.7
132.5°	0.7	0.4	0.0	0.0	4.8
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)