

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: P289928

Luminaire Tested: **4SSRK-LW-40-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289928  
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-40-L830-CD1-U  
Description: 4000 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: 3612.3 lumens  
Efficiency: N/A  
Efficacy: 130.4 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

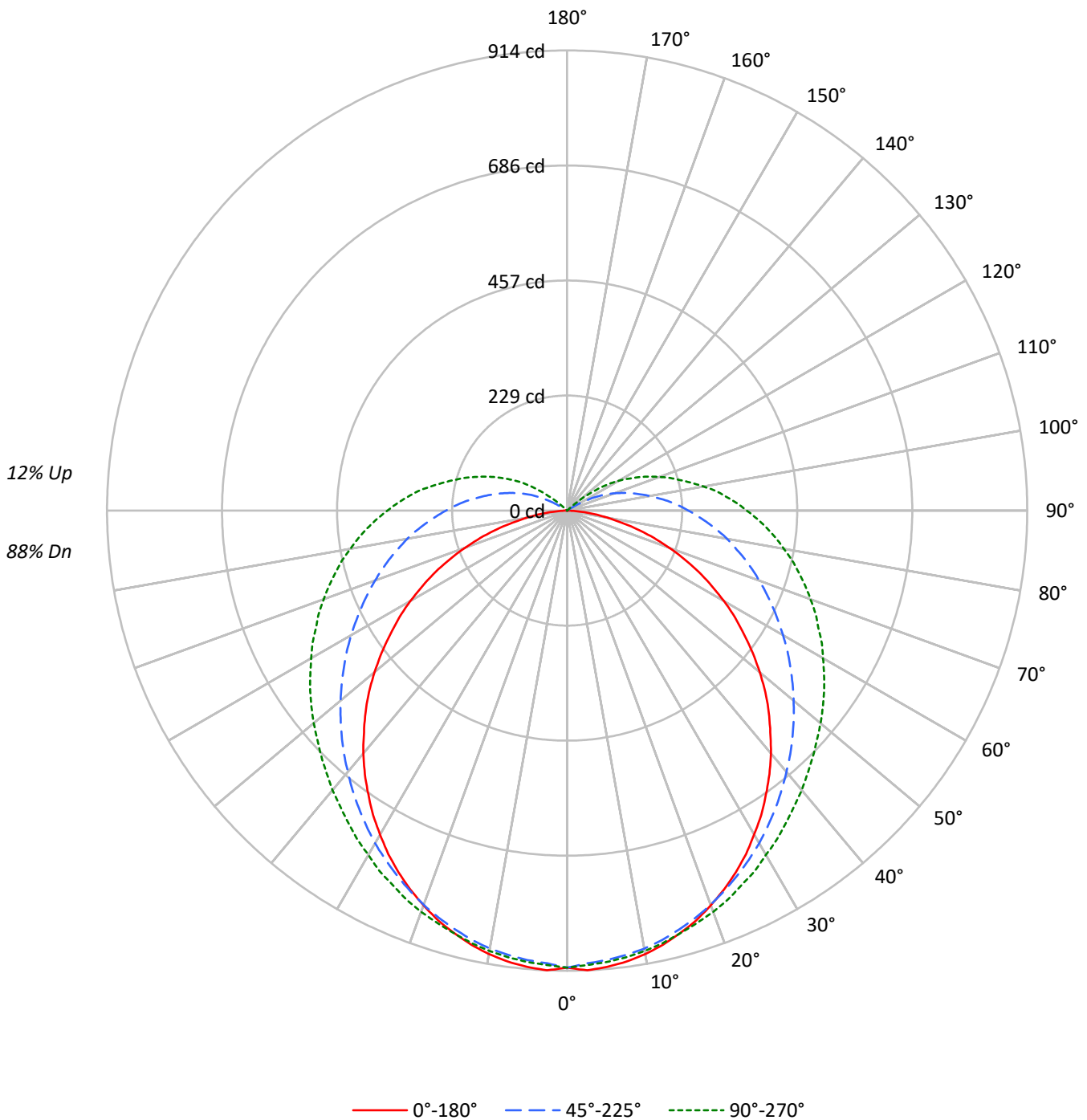
Input Watts (W): 27.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	58628	58628	58628
5°	58761	46484	43226
10°	58226	38521	34157
15°	57434	32602	28048
20°	56476	28071	23734
25°	55411	24433	20404
30°	54107	21475	17797
35°	52751	18954	15719
40°	51303	16812	14029
45°	49654	14991	12613
50°	47764	13393	11448
55°	45570	11988	10454
60°	43322	10750	9562
65°	40457	9642	8785
70°	36563	8659	8100
75°	31442	7773	7459
80°	24277	6977	6861
85°	14607	6170	6316



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.7	2.4
10°-20°	244.7	6.8
20°-30°	371.0	10.3
30°-40°	452.8	12.5
40°-50°	487.7	13.5
50°-60°	479.0	13.3
60°-70°	432.8	12.0
70°-80°	360.3	10.0
80°-90°	276.4	7.7
90°-100°	200.1	5.5
100°-110°	129.3	3.6
110°-120°	69.7	1.9
120°-130°	22.1	0.6
130°-140°	0.8	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°	701.4	19.4
0°-40°	1154.2	32.0
0°-60°	2120.9	58.7
0°-90°	3190.4	88.3
90°-120°	399.0	11.0
90°-150°	421.9	11.7
90°-180°	422.0	11.7
0°-180°	3612.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	910	906	896	903	900	86
15°	869	867	861	870	869	245
25°	793	794	800	817	820	365
35°	689	698	722	750	758	431
45°	566	588	633	675	690	437
55°	429	471	541	601	623	384
65°	288	351	450	525	551	285
75°	146	242	363	447	476	154
85°	29	148	280	368	398	35
90°	1	111	241	327	357	2
95°	2	81	204	289	317	1
105°	2	29	133	208	234	2
115°	1	1	67	132	157	1
125°	1	0	0	53	75	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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CATALOG NUMBER: 4SSRK-LW-40-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	907.8	907.8	907.8	907.8	907.8
2.5°	914.0	910.1	900.1	906.3	903.5
5°	909.7	906.3	896.3	903.0	900.1
7.5°	903.5	900.1	890.6	897.2	894.9
10°	894.4	891.0	883.4	890.1	888.2
12.5°	882.9	880.5	873.4	881.5	879.6
15°	868.6	866.7	861.0	870.5	869.1
17.5°	853.3	851.4	848.1	858.1	858.6
20°	834.2	833.7	833.3	846.2	848.1
22.5°	814.6	815.1	817.0	832.8	835.6
25°	792.7	793.6	799.8	817.0	820.4
27.5°	769.3	772.6	781.7	801.7	807.0
30°	743.0	748.7	763.1	784.1	789.8
32.5°	717.2	723.4	742.5	767.4	775.0
35°	688.6	697.6	721.5	750.2	757.8
37.5°	659.9	670.4	700.0	731.1	740.6
40°	629.8	643.7	677.6	712.5	724.9
42.5°	597.4	616.9	656.1	693.4	707.2
45°	566.3	587.8	633.2	674.7	690.5
47.5°	534.3	560.1	610.3	656.6	673.3
50°	499.0	530.0	587.3	638.4	657.1
52.5°	464.6	501.4	564.4	619.8	640.3
55°	428.8	471.3	541.0	601.2	623.2
57.5°	395.4	440.7	518.6	581.6	605.0
60°	359.6	411.1	495.2	563.5	586.9
62.5°	323.3	381.5	472.3	543.9	570.2
65°	288.4	351.0	449.8	525.3	550.6
67.5°	251.2	323.3	427.9	505.2	533.9
70°	215.8	294.6	405.9	486.1	514.3
72.5°	180.5	266.9	384.4	467.0	495.7
75°	145.6	241.6	363.4	447.4	476.1
77.5°	110.8	214.9	341.9	427.9	457.9
80°	80.7	191.5	322.8	407.8	436.9
82.5°	54.9	169.5	301.3	388.7	418.3
85°	29.1	148.0	280.3	367.7	398.2
87.5°	8.6	128.9	259.8	347.2	377.7
90°	1.0	111.3	240.7	327.1	356.7
92.5°	1.4	96.0	222.5	309.0	337.6
95°	1.9	80.7	203.9	288.9	317.1
97.5°	1.9	67.3	184.8	268.4	298.4
100°	1.9	54.4	166.7	247.4	275.0
102.5°	1.9	42.5	149.5	226.3	253.6
105°	1.9	28.7	132.7	207.7	233.5
107.5°	1.9	14.3	116.5	189.6	214.9
110°	1.9	2.9	100.3	170.9	195.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	1.9	84.5	151.4	176.2
115°	1.4	1.4	66.9	132.3	157.1
117.5°	1.4	1.4	47.8	114.6	137.0
120°	1.4	1.0	27.7	96.0	118.4
122.5°	1.0	1.0	9.1	74.5	98.8
125°	1.0	0.5	0.5	53.0	75.4
127.5°	1.0	0.5	0.0	29.6	51.1
130°	1.0	0.5	0.0	8.6	29.1
132.5°	1.0	0.5	0.0	0.0	6.2
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)