

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: P290440

Luminaire Tested: **4SSRK-SLW-20-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290440  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-17)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SSRK-SLW-20-L830-CD1-U  
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 80 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1906.9 lumens  
Efficiency: N/A  
Efficacy: 139.2 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

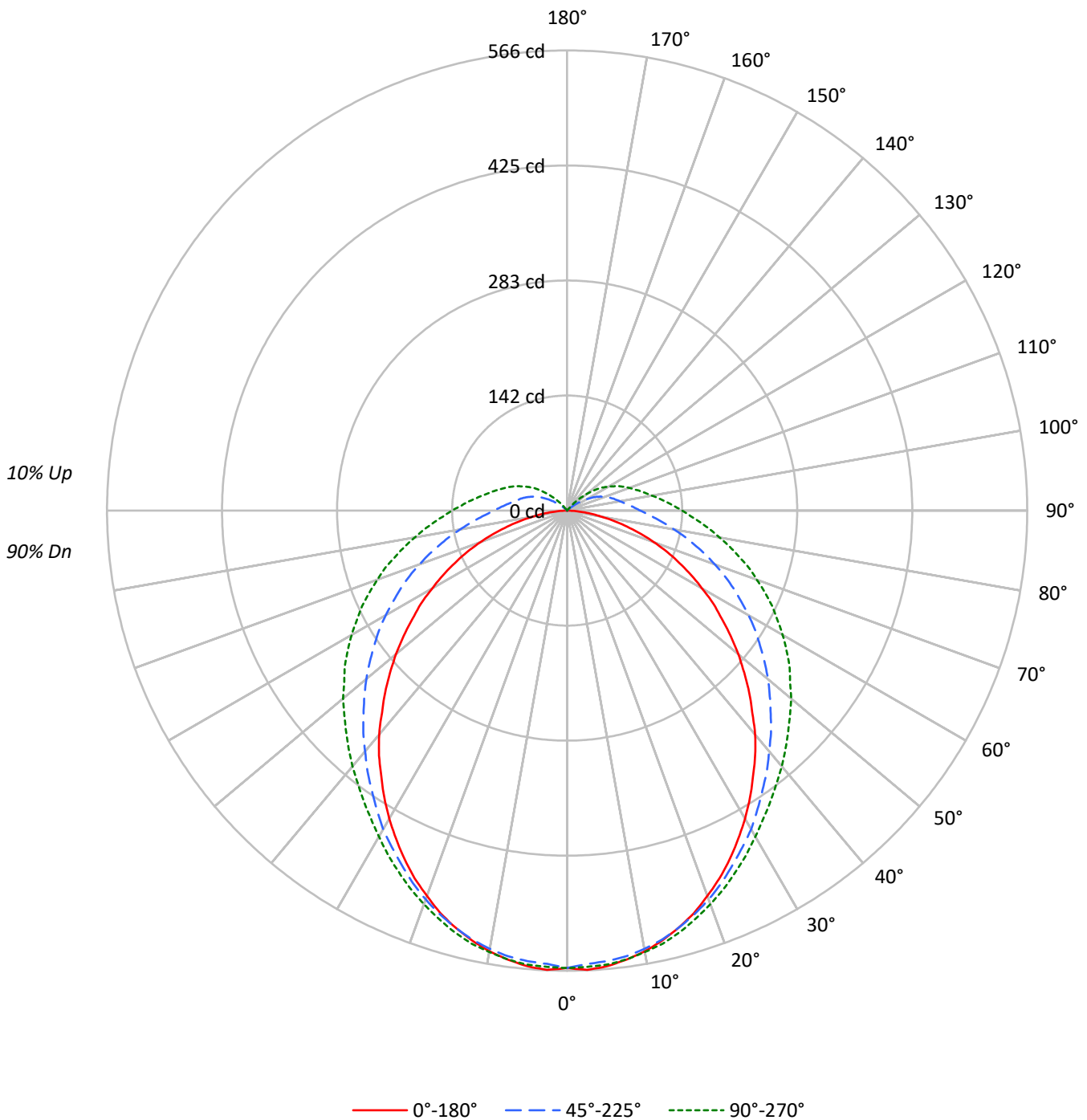
Input Watts (W): 13.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	104	99	94	89	101	96	91	87	89	86	82	84	81	78	79	76	74	71
2	94	85	78	71	91	82	76	70	77	72	67	72	68	64	68	64	61	58
3	86	74	66	59	82	72	64	58	68	61	55	63	58	53	60	55	51	48
4	78	66	56	49	75	64	55	49	60	53	47	56	50	45	53	48	43	41
5	72	59	49	42	69	57	48	42	54	46	40	50	44	39	48	42	38	35
6	66	53	43	37	64	51	43	36	48	41	35	46	39	34	43	37	33	31
7	61	48	39	32	59	46	38	32	44	36	31	42	35	30	39	34	29	27
8	57	43	35	29	55	42	34	28	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	23	48	36	28	23	34	27	23	33	26	22	31	26	21	20

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

	0°	45°	90°
0°	36334	36334	36334
5°	36341	28856	26927
10°	35838	23878	21205
15°	35111	20106	17320
20°	34148	17143	14415
25°	33084	14697	12196
30°	31852	12737	10431
35°	30543	11013	9050
40°	29309	9592	7950
45°	27777	8383	7024
50°	26304	7354	6268
55°	24687	6415	5601
60°	23119	5594	4987
65°	21351	4832	4440
70°	19230	4119	3909
75°	16455	3465	3426
80°	12936	2885	2987
85°	8483	2404	2603



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.2	2.8
10°-20°	150.4	7.9
20°-30°	222.4	11.7
30°-40°	262.7	13.8
40°-50°	273.1	14.3
50°-60°	257.5	13.5
60°-70°	219.5	11.5
70°-80°	166.0	8.7
80°-90°	112.0	5.9
90°-100°	76.9	4.0
100°-110°	55.2	2.9
110°-120°	35.4	1.9
120°-130°	18.1	0.9
130°-140°	4.6	0.2
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°	426.0	22.3
0°-40°	688.7	36.1
0°-60°	1219.3	63.9
0°-90°	1716.8	90.0
90°-120°	167.4	8.8
90°-150°	190.1	10.0
90°-180°	190.0	10.0
0°-180°	1906.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	563	563	563	563	563	
5°	563	561	556	562	561	53
15°	531	533	531	536	537	150
25°	473	479	481	490	490	218
35°	399	408	419	432	436	250
45°	317	332	354	376	384	244
55°	232	256	290	321	334	208
65°	152	183	225	263	278	151
75°	76	113	162	203	219	81
85°	17	57	109	150	164	19
90°	0	40	90	128	142	1
95°	0	32	76	110	122	0
105°	0	20	58	83	93	1
115°	0	3	40	63	71	0
125°	0	1	17	39	47	0
135°	0	0	0	12	18	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°	562.6	562.6	562.6	562.6	562.6
2.5°	565.5	563.6	558.1	562.8	561.7
5°	562.6	561.2	556.4	561.7	560.7
7.5°	557.1	556.9	553.1	558.6	556.9
10°	550.5	550.7	547.6	553.1	551.4
12.5°	541.5	542.4	540.3	545.5	545.3
15°	531.0	532.7	531.0	536.2	536.7
17.5°	519.1	521.8	520.6	527.0	526.3
20°	504.4	508.0	508.9	515.3	515.1
22.5°	489.7	494.2	495.9	502.5	503.5
25°	473.3	478.8	481.1	489.5	490.4
27.5°	455.5	462.6	466.9	475.2	477.3
30°	437.4	445.0	452.6	461.0	462.9
32.5°	418.7	427.0	435.8	447.2	449.3
35°	398.7	408.2	419.2	431.7	436.3
37.5°	380.0	390.7	403.5	418.2	423.0
40°	359.8	370.7	386.6	403.3	410.8
42.5°	337.2	352.0	371.0	390.9	397.6
45°	316.8	332.5	354.1	375.9	384.5
47.5°	295.4	313.7	338.2	362.4	371.7
50°	274.8	294.7	322.5	348.6	359.8
52.5°	253.4	276.0	306.1	335.1	345.5
55°	232.3	256.2	289.5	320.6	333.9
57.5°	213.3	237.7	274.5	306.4	319.9
60°	191.9	220.1	257.7	291.9	306.1
62.5°	172.2	200.9	241.0	277.4	291.6
65°	152.2	183.1	225.4	262.7	278.3
67.5°	133.5	164.6	209.5	248.2	263.1
70°	113.5	147.2	193.1	233.0	248.2
72.5°	95.2	129.9	177.9	218.2	234.6
75°	76.2	113.3	162.0	203.3	218.7
77.5°	59.4	97.1	147.7	189.3	204.7
80°	43.0	82.4	133.5	175.3	190.2
82.5°	29.2	68.9	120.9	162.4	177.2
85°	16.9	56.8	109.2	149.6	164.1
87.5°	6.4	47.3	98.8	138.5	151.8
90°	0.2	40.1	89.8	128.0	141.5
92.5°	0.2	35.1	82.9	118.5	131.1
95°	0.2	31.8	76.5	110.2	122.5
97.5°	0.5	29.2	70.8	102.8	113.8
100°	0.5	26.6	66.0	95.7	106.2
102.5°	0.5	24.0	61.7	89.3	99.0
105°	0.5	20.4	57.9	83.4	92.9
107.5°	0.5	15.9	53.7	78.4	86.7
110°	0.5	11.6	49.2	73.4	81.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	7.1	45.1	68.4	76.2
115°	0.5	2.6	40.1	62.9	70.8
117.5°	0.5	0.9	34.2	57.7	64.6
120°	0.5	0.7	28.5	52.0	58.9
122.5°	0.5	0.7	22.6	45.8	53.2
125°	0.5	0.7	16.9	39.2	47.0
127.5°	0.5	0.5	10.9	32.3	39.4
130°	0.5	0.5	5.2	25.6	32.5
132.5°	0.5	0.5	0.2	18.8	25.4
135°	0.5	0.2	0.2	12.3	18.3
137.5°	0.5	0.2	0.0	5.9	11.9
140°	0.5	0.2	0.0	0.0	4.7
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)