

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: P289651

Luminaire Tested: **4SSRK-20-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289651  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-11)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SSRK-20-L850-CD1-U  
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH NO LENS AND 80 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2235.5 lumens  
Efficiency: N/A  
Efficacy: 163.2 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

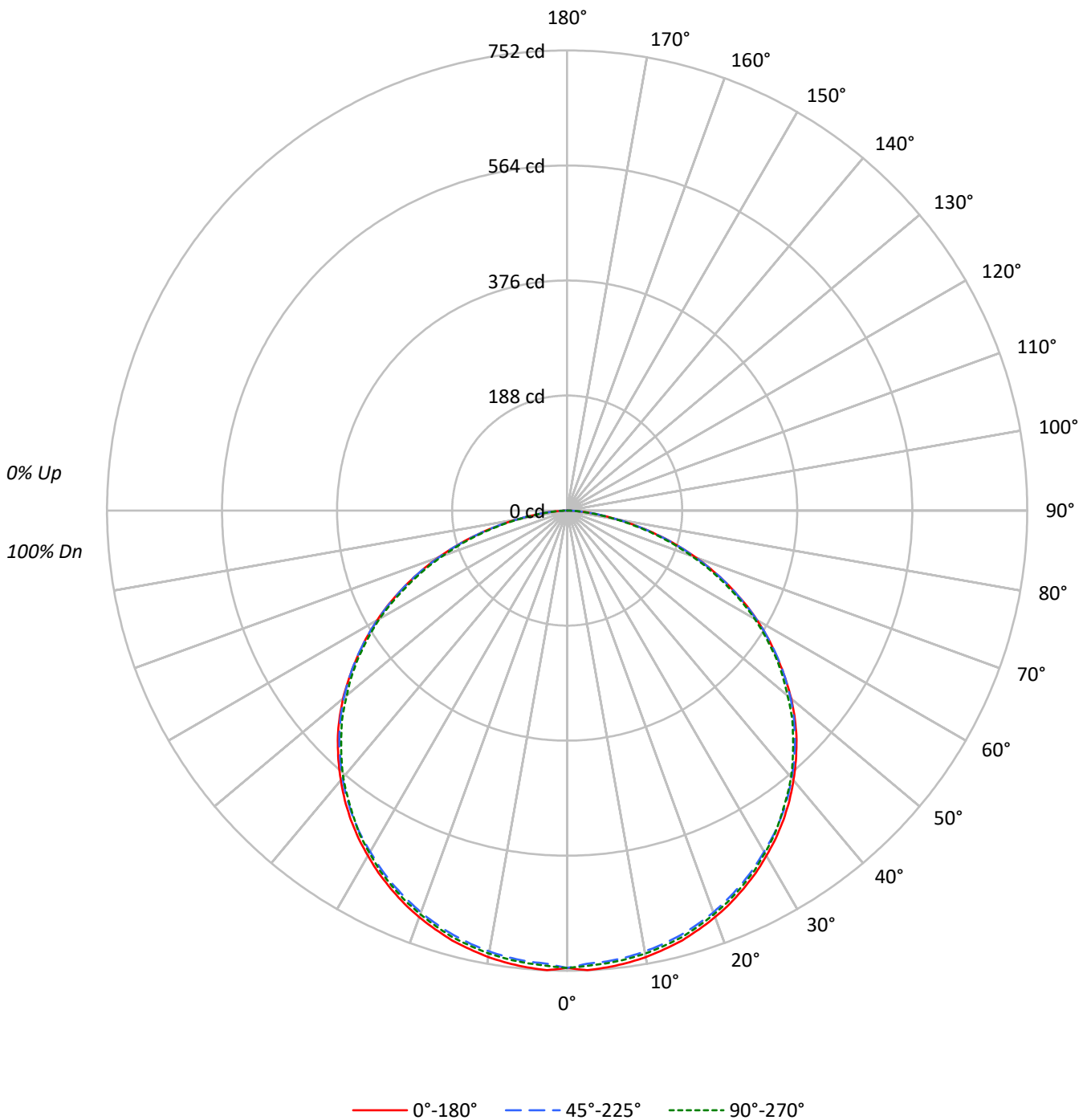
Input Watts (W): 13.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	37	30	25	36	30	25	23

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

	0°	45°	90°
0°	48269	48269	48269
5°	48400	38352	35667
10°	48240	31902	28269
15°	48085	27191	23301
20°	47871	23537	19643
25°	47659	20587	16840
30°	47429	18114	14559
35°	47220	16038	12639
40°	46872	14172	11021
45°	46488	12465	9537
50°	45764	10864	8192
55°	44571	9304	6965
60°	43213	7787	5767
65°	41046	6277	4555
70°	38004	4742	3402
75°	32846	3243	2301
80°	25210	1811	1242
85°	15059	654	409



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.8	3.2
10°-20°	204.1	9.1
20°-30°	312.7	14.0
30°-40°	383.3	17.1
40°-50°	406.1	18.2
50°-60°	374.4	16.8
60°-70°	287.8	12.9
70°-80°	159.5	7.1
80°-90°	36.7	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	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°	587.6	26.3
0°-40°	971.0	43.4
0°-60°	1751.5	78.4
0°-90°	2235.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2235.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	749	746	740	747	743	71
15°	727	724	718	724	722	205
25°	682	679	674	681	677	314
35°	616	614	610	613	609	386
45°	530	528	526	526	522	409
55°	419	423	420	418	415	375
65°	293	293	293	289	286	289
75°	152	152	152	149	147	161
85°	30	30	30	28	26	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	747.4	747.4	747.4	747.4	747.4
2.5°	751.8	748.1	741.2	748.1	744.7
5°	749.3	746.1	739.5	746.6	742.7
7.5°	745.9	743.2	736.5	743.4	739.5
10°	741.0	738.0	731.6	739.0	735.1
12.5°	734.3	731.6	725.5	732.4	728.9
15°	727.2	723.8	718.1	724.5	722.0
17.5°	717.4	714.7	709.0	715.2	712.5
20°	707.1	704.4	698.7	704.9	701.9
22.5°	695.3	692.6	686.7	693.3	690.4
25°	681.8	679.3	673.9	680.8	677.1
27.5°	667.5	665.5	659.6	665.3	663.1
30°	651.3	650.1	643.7	648.1	646.1
32.5°	634.8	632.6	628.2	631.6	629.7
35°	616.4	613.5	610.5	612.7	609.3
37.5°	596.8	594.8	591.6	593.6	589.6
40°	575.4	573.7	571.2	571.7	569.5
42.5°	553.3	551.3	549.3	548.4	545.9
45°	530.2	528.5	526.5	525.8	522.1
47.5°	505.1	503.9	502.7	500.9	498.2
50°	478.1	478.6	476.4	474.9	470.2
52.5°	449.1	452.0	448.9	446.6	443.9
55°	419.4	422.6	419.9	418.1	415.2
57.5°	389.9	391.4	389.6	388.4	384.5
60°	358.7	359.9	358.7	356.0	354.0
62.5°	326.5	328.0	325.5	323.6	320.9
65°	292.6	293.3	292.8	288.9	285.5
67.5°	258.5	259.7	258.2	255.5	252.1
70°	224.3	223.6	222.3	220.4	216.0
72.5°	188.2	188.2	187.9	184.3	182.0
75°	152.1	152.3	151.6	149.1	146.9
77.5°	116.0	118.7	116.7	114.2	111.8
80°	83.8	85.5	83.8	80.6	79.1
82.5°	53.6	56.0	54.5	51.3	50.9
85°	30.0	30.5	29.7	28.3	25.8
87.5°	11.3	11.8	12.0	9.8	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)