

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: P289780

Luminaire Tested: **8SSRK-TS-50-L930-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289780  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-6)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-TS-50-L930-CD1-U  
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 90 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3682.5 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Semi-Direct

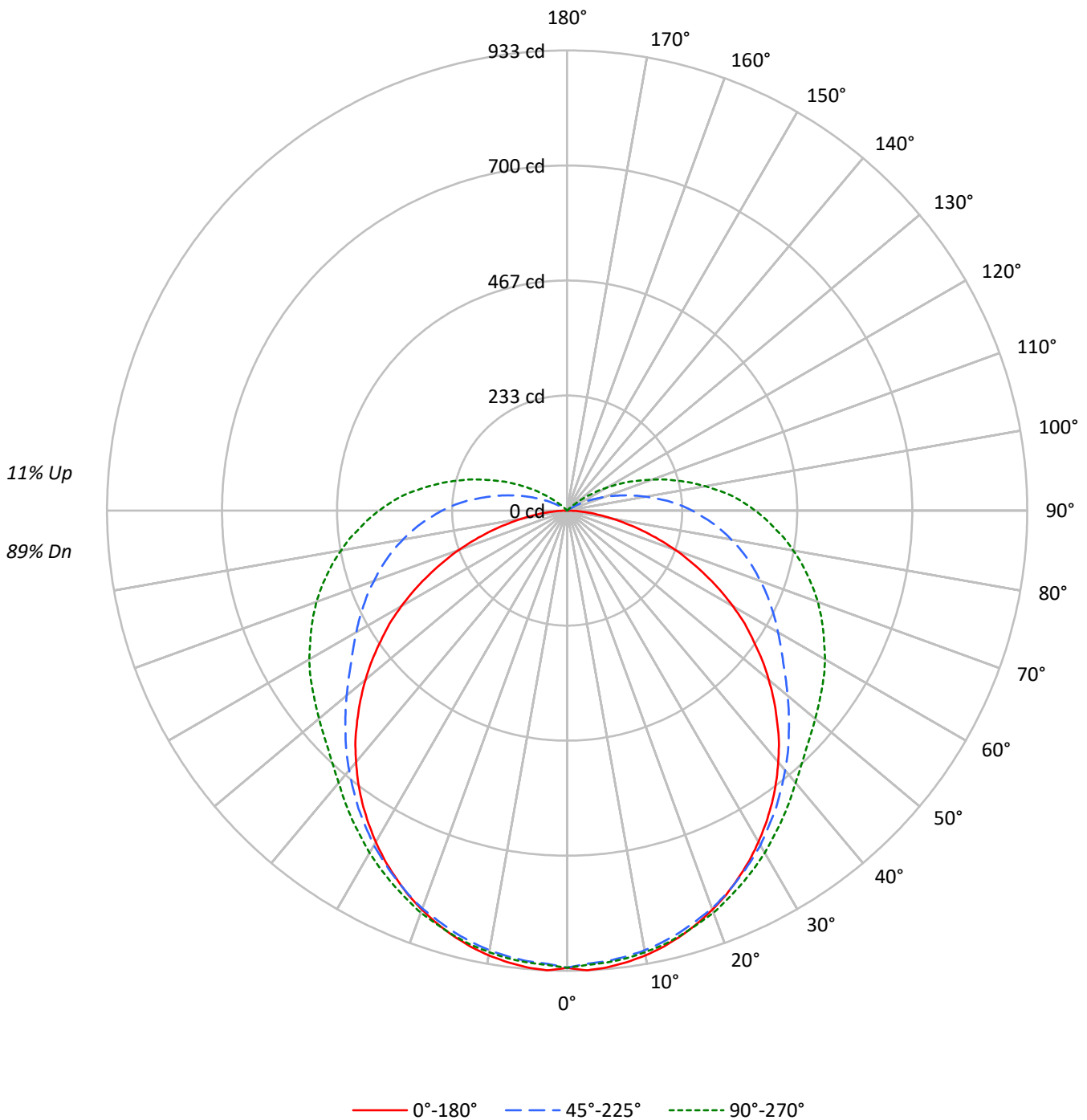
Input Watts (W): 34.1991  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89				
1	103	97	91	87	99	94	89	84	87	83	79	81	78	75	76	73	71	68				
2	93	83	75	68	89	80	73	67	75	68	63	70	65	60	65	61	57	54				
3	84	72	63	56	80	69	61	54	65	58	52	61	55	50	57	52	47	45				
4	76	63	54	46	73	61	52	45	57	50	44	53	47	42	50	45	40	37				
5	70	56	47	39	67	54	45	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	41	35	30	28				
7	60	46	36	30	57	44	36	29	42	34	28	39	33	28	37	31	27	24				
8	56	41	33	27	53	40	32	26	38	31	25	36	29	25	34	28	24	22				
9	52	38	29	24	50	37	29	23	35	28	23	33	27	22	31	26	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°	29931	29931	29931
5°	30084	23811	22084
10°	29919	19772	17480
15°	29681	16795	14382
20°	29365	14500	12143
25°	28992	12609	10396
30°	28587	11061	9029
35°	28130	9721	7903
40°	27584	8560	6973
45°	26926	7553	6257
50°	26157	6681	5721
55°	25231	5948	5286
60°	24185	5382	4919
65°	22681	4902	4568
70°	20906	4466	4259
75°	18418	4066	3950
80°	15267	3670	3654
85°	11222	3281	3358



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.7	2.4
10°-20°	251.2	6.8
20°-30°	381.5	10.4
30°-40°	463.8	12.6
40°-50°	495.0	13.4
50°-60°	485.4	13.2
60°-70°	443.5	12.0
70°-80°	376.4	10.2
80°-90°	292.9	8.0
90°-100°	206.5	5.6
100°-110°	122.8	3.3
110°-120°	58.1	1.6
120°-130°	16.8	0.5
130°-140°	1.0	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°	720.5	19.6
0°-40°	1184.2	32.2
0°-60°	2164.6	58.8
0°-90°	3277.3	89.0
90°-120°	387.4	10.5
90°-150°	405.2	11.0
90°-180°	405.0	11.0
0°-180°	3682.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	927	927	927	927	927	
5°	930	926	917	923	920	88
15°	893	891	885	893	891	252
25°	822	822	823	836	836	379
35°	724	728	738	756	762	453
45°	602	612	636	669	685	464
55°	462	481	535	604	630	413
65°	310	350	455	542	573	307
75°	159	241	378	472	504	169
85°	38	154	297	391	424	42
90°	3	114	253	348	381	4
95°	3	76	209	302	337	2
105°	2	21	119	202	233	3
115°	2	2	49	111	138	2
125°	1	1	2	37	54	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°	926.9	926.9	926.9	926.9	926.9
2.5°	933.1	929.8	919.7	925.0	922.1
5°	929.8	926.4	917.3	922.6	919.7
7.5°	923.5	921.1	912.0	917.8	915.8
10°	915.8	913.4	905.3	912.0	909.1
12.5°	905.3	902.9	896.1	902.9	901.9
15°	892.8	890.8	885.1	892.8	891.3
17.5°	877.9	876.4	871.6	881.2	879.3
20°	861.0	860.1	858.6	867.3	867.8
22.5°	842.8	842.8	841.8	851.4	851.9
25°	821.6	822.1	823.1	836.0	836.0
27.5°	800.0	801.4	803.8	816.3	819.2
30°	775.9	778.3	783.6	797.1	801.4
32.5°	750.5	754.3	760.1	776.9	781.2
35°	724.0	727.9	737.5	755.7	762.0
37.5°	695.7	700.0	712.5	733.1	741.3
40°	665.8	670.7	687.5	713.4	720.6
42.5°	635.6	642.3	663.0	690.8	701.9
45°	601.9	612.0	635.6	669.2	685.1
47.5°	568.3	580.3	609.6	650.9	670.2
50°	533.6	547.1	583.6	634.6	656.7
52.5°	499.0	513.9	558.2	619.2	643.2
55°	461.5	481.2	534.6	604.3	630.3
57.5°	426.9	448.1	513.4	589.4	617.8
60°	388.0	414.9	493.7	574.0	603.8
62.5°	349.5	381.7	475.0	558.2	587.5
65°	310.1	350.0	455.3	542.3	572.6
67.5°	271.1	317.8	437.0	525.9	557.2
70°	234.1	289.9	416.8	509.1	540.8
72.5°	195.2	265.4	398.1	491.3	523.1
75°	159.1	241.3	378.4	472.1	504.3
77.5°	122.6	218.7	359.1	452.9	486.0
80°	91.8	197.6	338.0	432.7	465.4
82.5°	62.5	176.4	317.3	412.0	446.1
85°	37.5	153.8	296.6	390.9	423.5
87.5°	16.8	134.1	274.0	369.2	403.4
90°	2.9	113.9	253.4	348.5	381.2
92.5°	3.4	95.7	232.2	326.4	359.1
95°	2.9	76.4	209.1	301.9	337.0
97.5°	2.9	60.1	184.6	277.9	310.1
100°	2.4	44.7	161.1	252.4	284.1
102.5°	2.4	31.7	139.9	227.4	259.1
105°	2.4	20.7	119.2	202.4	233.2
107.5°	2.4	11.5	99.0	178.4	209.6
110°	2.4	4.3	80.8	156.7	182.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	1.9	63.0	132.7	159.6
115°	1.9	1.9	48.6	111.1	137.5
117.5°	1.9	1.4	33.2	90.9	114.9
120°	1.9	1.4	20.7	72.6	93.3
122.5°	1.4	1.0	10.1	53.8	74.5
125°	1.4	1.0	2.4	37.0	54.3
127.5°	1.4	0.5	0.0	22.1	37.5
130°	1.0	0.5	0.0	10.6	22.1
132.5°	1.0	0.5	0.0	1.9	9.6
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)