

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: P290148

Luminaire Tested: **8SSRK-LN-80-L930-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290148  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-10)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-LN-80-L930-CD1-U  
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 90 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6718.8 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

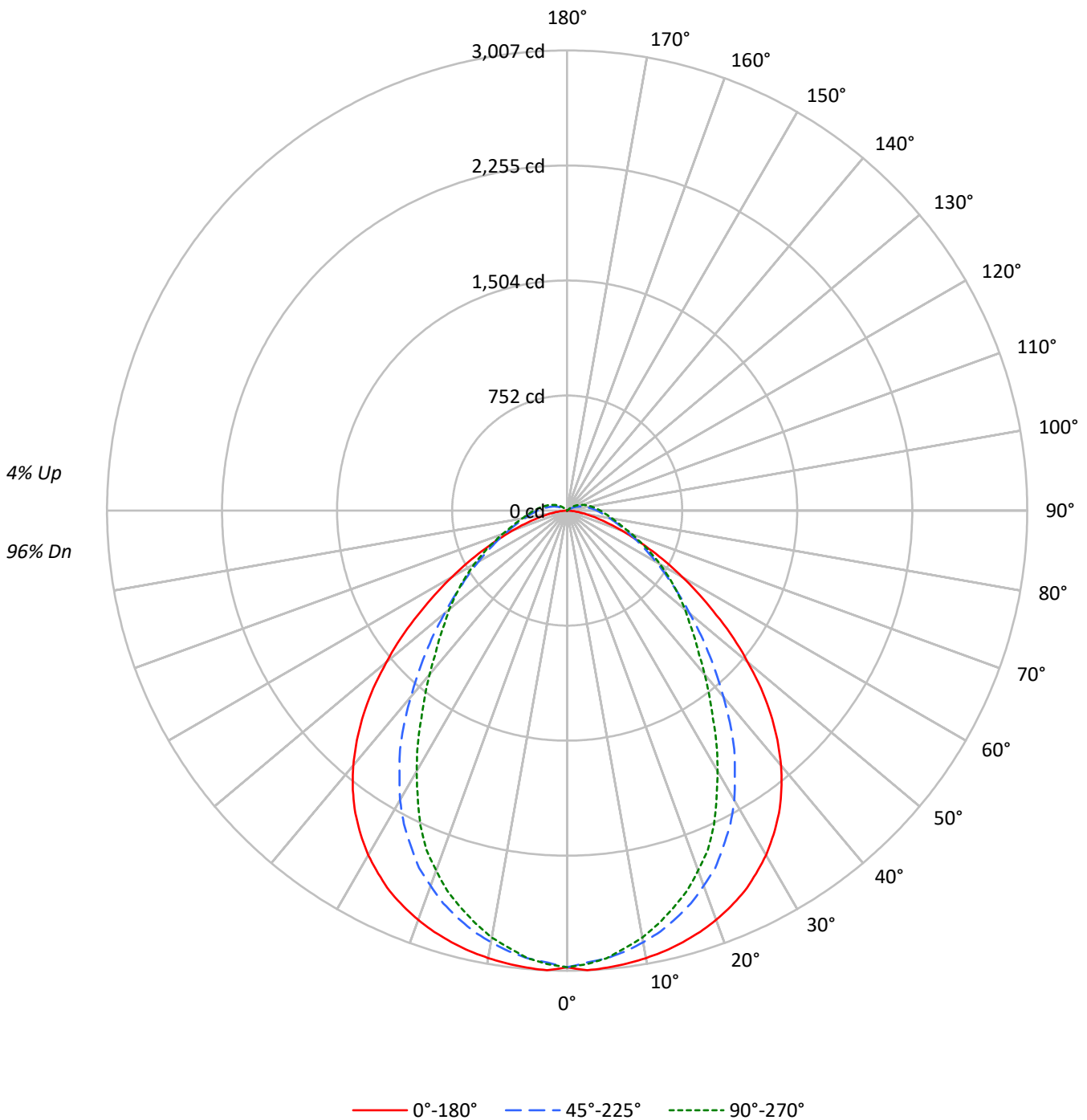
Input Watts (W): 56.6491  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	81				
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	69				
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	59				
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	52				
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	46				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	47	43	41				
7	67	54	46	40	65	53	46	40	52	45	39	50	44	39	48	43	38	36				
8	63	50	42	36	61	49	41	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	38	33	57	45	38	33	44	37	32	43	36	32	41	36	32	30				
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	27				

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

	0°	45°	90°
0°	96371	96371	96371
5°	97026	76239	70523
10°	97009	62558	54467
15°	97062	52312	43338
20°	97094	44062	35015
25°	96834	37041	28211
30°	95779	30829	22141
35°	93789	25111	17235
40°	90121	19774	13541
45°	84200	15455	10760
50°	75529	11949	8762
55°	65103	9301	7117
60°	54230	7296	5723
65°	43226	5743	4519
70°	33730	4546	3553
75°	25248	3693	2828
80°	18261	3046	2345
85°	11341	2569	1999



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.2	4.2
10°-20°	784.6	11.7
20°-30°	1130.8	16.8
30°-40°	1224.9	18.2
40°-50°	1084.9	16.1
50°-60°	825.5	12.3
60°-70°	550.0	8.2
70°-80°	339.8	5.1
80°-90°	212.9	3.2
90°-100°	139.9	2.1
100°-110°	85.7	1.3
110°-120°	44.2	0.7
120°-130°	14.5	0.2
130°-140°	0.9	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°	2195.6	32.7
0°-40°	3420.5	50.9
0°-60°	5330.8	79.3
0°-90°	6433.5	95.8
90°-120°	269.9	4.0
90°-150°	285.3	4.2
90°-180°	285.0	4.2
0°-180°	6718.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2984	2984	2984	2984	2984	
5°	2999	2980	2937	2948	2937	285
15°	2920	2864	2757	2720	2686	825
25°	2744	2615	2418	2314	2269	1263
35°	2414	2188	1905	1726	1662	1504
45°	1882	1587	1301	1202	1178	1444
55°	1191	972	836	846	849	1070
65°	591	518	533	564	566	597
75°	218	266	344	367	361	241
85°	38	137	232	256	252	46
90°	2	100	194	218	216	3
95°	4	70	160	186	185	3
105°	2	28	100	128	131	3
115°	2	2	51	80	87	2
125°	2	2	2	35	44	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°	2984.4	2984.4	2984.4	2984.4	2984.4
2.5°	3006.6	2990.0	2956.0	2975.7	2966.3
5°	2998.7	2979.7	2937.0	2948.1	2937.0
7.5°	2986.0	2962.3	2905.4	2910.2	2884.1
10°	2969.4	2937.8	2864.3	2856.4	2832.7
12.5°	2948.1	2903.8	2817.7	2786.1	2763.2
15°	2919.6	2864.3	2756.9	2719.7	2685.8
17.5°	2887.2	2816.1	2691.3	2646.2	2605.9
20°	2846.9	2757.7	2609.1	2546.7	2502.4
22.5°	2798.0	2693.7	2527.7	2436.9	2401.3
25°	2744.2	2615.4	2417.9	2314.4	2268.6
27.5°	2673.9	2529.3	2309.6	2180.1	2114.5
30°	2599.6	2427.4	2184.0	2034.7	1965.1
32.5°	2510.3	2316.0	2038.6	1879.8	1818.2
35°	2413.9	2188.0	1905.1	1725.7	1661.7
37.5°	2300.2	2049.7	1746.3	1581.9	1525.8
40°	2175.3	1899.5	1588.2	1443.6	1399.4
42.5°	2033.1	1747.0	1439.7	1314.8	1276.9
45°	1882.2	1587.4	1300.6	1201.8	1178.1
47.5°	1717.8	1427.8	1170.2	1099.9	1082.5
50°	1540.8	1268.2	1043.8	1005.1	1005.9
52.5°	1372.5	1117.3	936.3	926.1	923.7
55°	1190.8	971.9	836.0	846.3	848.6
57.5°	1026.4	836.8	750.7	769.6	772.0
60°	870.0	715.9	669.3	698.5	702.5
62.5°	726.9	612.4	599.7	629.8	629.0
65°	591.0	518.3	533.4	564.2	566.5
67.5°	475.7	441.7	478.0	504.9	503.3
70°	377.7	373.0	424.3	452.8	451.2
72.5°	293.9	315.3	382.4	406.9	400.6
75°	218.1	265.5	343.7	366.6	361.1
77.5°	160.4	224.4	309.7	331.9	327.9
80°	109.8	190.4	280.5	303.4	298.7
82.5°	70.3	162.0	255.2	277.3	274.2
85°	37.9	136.7	232.3	256.0	252.1
87.5°	14.2	116.2	211.8	235.5	233.9
90°	1.6	99.6	193.6	218.1	216.5
92.5°	2.4	84.5	176.2	201.5	201.5
95°	4.0	70.3	160.4	185.7	184.9
97.5°	3.2	59.3	143.0	170.7	170.7
100°	3.2	49.0	127.2	154.9	156.5
102.5°	3.2	38.7	113.8	140.6	143.8
105°	2.4	27.7	100.4	128.0	131.2
107.5°	2.4	15.8	86.9	116.2	120.1
110°	2.4	4.0	75.1	103.5	108.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	2.4	63.2	91.7	96.4
115°	2.4	2.4	51.4	79.8	86.9
117.5°	1.6	1.6	37.9	69.5	75.9
120°	1.6	1.6	23.7	58.5	64.8
122.5°	1.6	1.6	10.3	46.6	55.3
125°	1.6	1.6	1.6	34.8	43.5
127.5°	1.6	1.6	0.8	20.5	30.8
130°	1.6	1.6	0.8	7.9	19.0
132.5°	1.6	1.6	0.8	0.8	5.5
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)