

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: P289715

Luminaire Tested: **8SSRK-80-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289715  
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: 8SSRK-80-L850-CD1-U  
Description: 8000 LUMEN, 8 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: 9239.4 lumens  
Efficiency: N/A  
Efficacy: 163.1 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

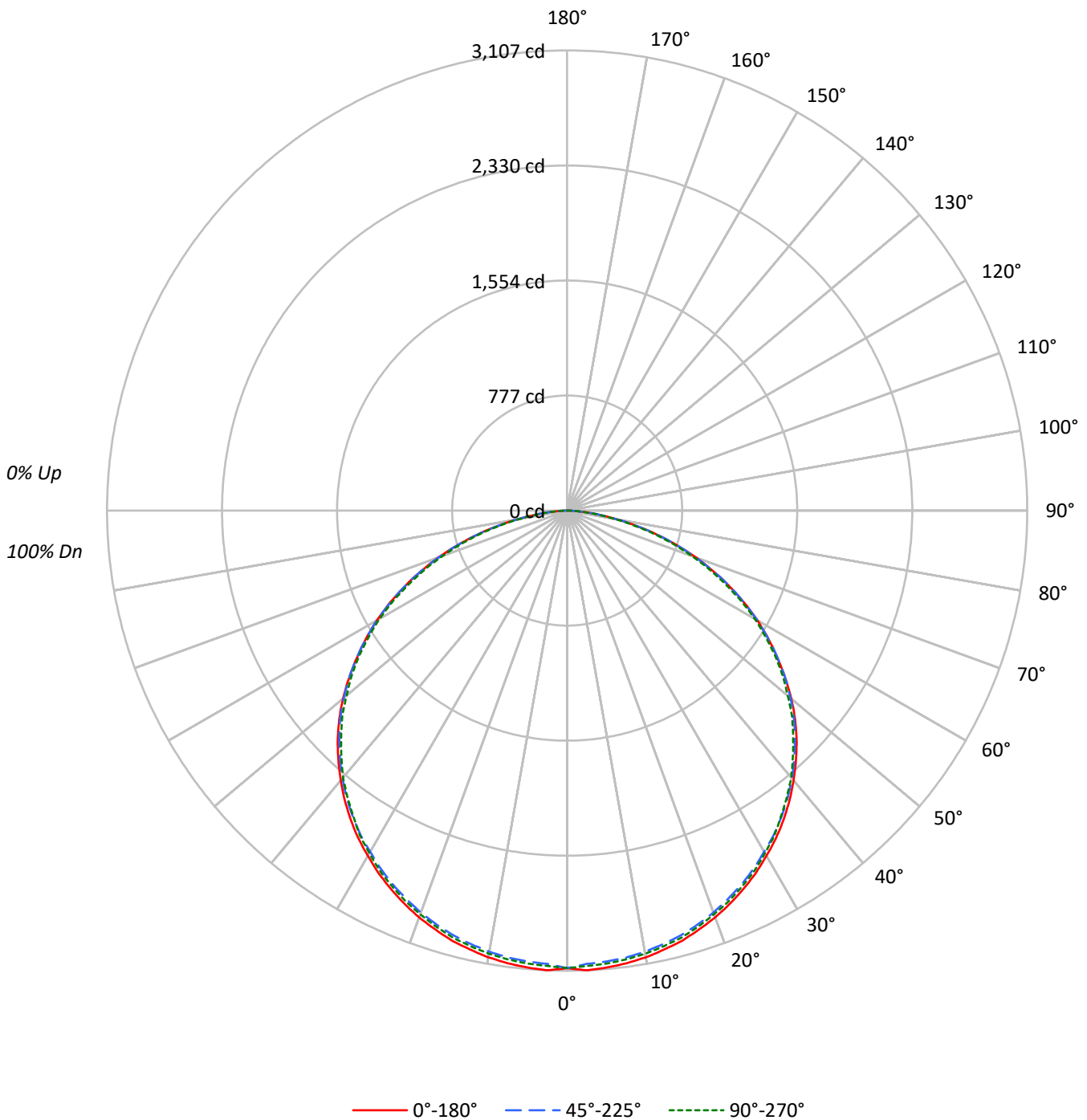
Input Watts (W): 56.6491  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84					84			
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37					37			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	37	30	25	36	30	25	23					23			

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

	0°	45°	90°
0°	99745	99745	99745
5°	100206	79338	73707
10°	100051	66043	58417
15°	99921	56320	48155
20°	99669	48771	40594
25°	99431	42669	34800
30°	99180	37554	30090
35°	98988	33259	26118
40°	98523	29394	22775
45°	98028	25857	19708
50°	96863	22540	16930
55°	94763	19307	14393
60°	92410	16161	11919
65°	88456	13031	9413
70°	82792	9847	7029
75°	72758	6732	4756
80°	57593	3761	2567
85°	37076	1359	845



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.7	3.2
10°-20°	843.4	9.1
20°-30°	1292.5	14.0
30°-40°	1584.4	17.1
40°-50°	1678.5	18.2
50°-60°	1547.6	16.8
60°-70°	1189.3	12.9
70°-80°	659.2	7.1
80°-90°	151.6	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°	2428.7	26.3
0°-40°	4013.1	43.4
0°-60°	7239.3	78.4
0°-90°	9239.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9239.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3089	3089	3089	3089	3089	
5°	3097	3084	3056	3086	3070	294
15°	3006	2991	2968	2994	2984	848
25°	2818	2808	2785	2814	2798	1300
35°	2548	2536	2523	2532	2518	1594
45°	2191	2184	2176	2173	2158	1688
55°	1733	1746	1735	1728	1716	1550
65°	1209	1212	1210	1194	1180	1196
75°	628	630	626	616	607	665
85°	124	126	123	117	107	154
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3088.9	3088.9	3088.9	3088.9	3088.9
2.5°	3107.2	3092.0	3063.5	3092.0	3077.7
5°	3097.0	3083.8	3056.4	3085.9	3069.6
7.5°	3082.8	3071.7	3044.2	3072.7	3056.4
10°	3062.5	3050.3	3023.9	3054.4	3038.1
12.5°	3035.1	3023.9	2998.5	3027.0	3012.8
15°	3005.6	2991.4	2968.1	2994.5	2984.3
17.5°	2965.0	2953.9	2930.5	2955.9	2944.7
20°	2922.4	2911.2	2887.9	2913.2	2901.1
22.5°	2873.6	2862.5	2838.1	2865.5	2853.3
25°	2817.8	2807.6	2785.3	2813.7	2798.5
27.5°	2758.9	2750.8	2726.4	2749.8	2740.6
30°	2691.9	2686.8	2660.4	2678.7	2670.6
32.5°	2623.9	2614.7	2596.4	2610.6	2602.5
35°	2547.7	2535.5	2523.3	2532.5	2518.2
37.5°	2466.5	2458.3	2445.1	2453.3	2437.0
40°	2378.1	2371.0	2360.9	2362.9	2353.7
42.5°	2286.7	2278.6	2270.5	2266.4	2256.3
45°	2191.3	2184.2	2176.0	2173.0	2157.8
47.5°	2087.7	2082.6	2077.6	2070.4	2059.3
50°	1976.0	1978.0	1968.9	1962.8	1943.5
52.5°	1856.2	1868.4	1855.2	1846.0	1834.9
55°	1733.3	1746.5	1735.4	1728.2	1716.1
57.5°	1611.5	1617.6	1610.5	1605.4	1589.1
60°	1482.5	1487.6	1482.5	1471.3	1463.2
62.5°	1349.5	1355.6	1345.4	1337.3	1326.1
65°	1209.4	1212.4	1210.4	1194.1	1179.9
67.5°	1068.2	1073.3	1067.2	1056.0	1041.8
70°	927.1	924.0	919.0	910.8	892.6
72.5°	777.8	777.8	776.8	761.6	752.4
75°	628.5	629.6	626.5	616.4	607.2
77.5°	479.3	490.4	482.3	472.2	462.0
80°	346.3	353.4	346.3	333.1	327.0
82.5°	221.4	231.5	225.4	212.2	210.2
85°	123.9	125.9	122.9	116.8	106.6
87.5°	46.7	48.7	49.8	40.6	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)