

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: P290155

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290155  
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-L850-CD1-U  
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 80 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8634.1 lumens  
Efficiency: N/A  
Efficacy: 152.4 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

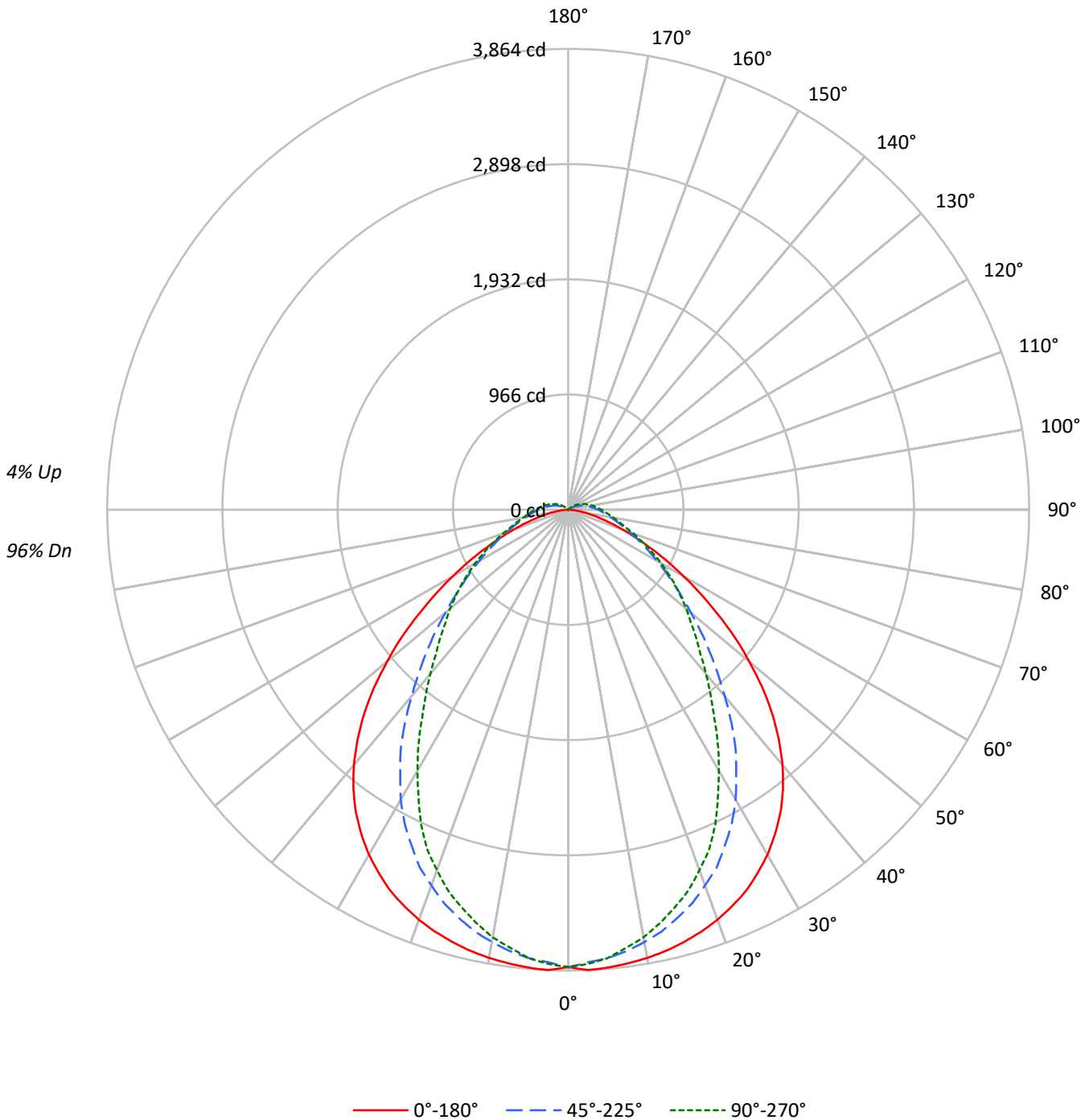
Input Watts (W): 56.6491  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	123848	123848	123848
5°	124687	97976	90630
10°	124667	80393	69996
15°	124735	67225	55692
20°	124778	56625	44999
25°	124443	47601	36252
30°	123088	39618	28454
35°	120528	32269	22148
40°	115816	25412	17401
45°	108205	19861	13828
50°	97064	15356	11260
55°	83664	11952	9147
60°	69689	9376	7353
65°	55550	7379	5808
70°	43347	5843	4566
75°	32449	4746	3635
80°	23466	3915	3013
85°	14573	3302	2569



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.1	4.2
10°-20°	1008.3	11.7
20°-30°	1453.2	16.8
30°-40°	1574.1	18.2
40°-50°	1394.2	16.1
50°-60°	1060.8	12.3
60°-70°	706.8	8.2
70°-80°	436.7	5.1
80°-90°	273.6	3.2
90°-100°	179.8	2.1
100°-110°	110.2	1.3
110°-120°	56.8	0.7
120°-130°	18.6	0.2
130°-140°	1.1	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°	2821.5	32.7
0°-40°	4395.6	50.9
0°-60°	6850.6	79.3
0°-90°	8267.6	95.8
90°-120°	346.8	4.0
90°-150°	366.5	4.2
90°-180°	367.0	4.3
0°-180°	8634.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3835	3835	3835	3835	3835	
5°	3854	3829	3774	3789	3774	367
15°	3752	3681	3543	3495	3451	1060
25°	3527	3361	3107	2974	2915	1622
35°	3102	2812	2448	2218	2135	1933
45°	2419	2040	1671	1544	1514	1855
55°	1530	1249	1074	1088	1091	1375
65°	760	666	685	725	728	767
75°	280	341	442	471	464	310
85°	49	176	298	329	324	59
90°	2	128	249	280	278	3
95°	5	90	206	239	238	3
105°	3	36	129	164	169	4
115°	3	3	66	103	112	3
125°	2	2	2	45	56	2
135°	0	0	0	0	0	1
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°	3835.3	3835.3	3835.3	3835.3	3835.3
2.5°	3863.7	3842.4	3798.7	3824.1	3811.9
5°	3853.6	3829.2	3774.4	3788.6	3774.4
7.5°	3837.3	3806.8	3733.7	3739.8	3706.3
10°	3816.0	3775.4	3680.9	3670.8	3640.3
12.5°	3788.6	3731.7	3621.0	3580.4	3551.0
15°	3752.0	3680.9	3542.8	3495.1	3451.4
17.5°	3710.4	3619.0	3458.6	3400.7	3348.9
20°	3658.6	3543.9	3353.0	3272.7	3215.9
22.5°	3595.6	3461.6	3248.4	3131.6	3085.9
25°	3526.6	3361.1	3107.2	2974.2	2915.3
27.5°	3436.2	3250.4	2968.1	2801.6	2717.3
30°	3340.8	3119.4	2806.6	2614.7	2525.4
32.5°	3226.0	2976.2	2619.8	2415.7	2336.5
35°	3102.1	2811.7	2448.2	2217.7	2135.4
37.5°	2955.9	2634.0	2244.1	2032.9	1960.8
40°	2795.5	2441.1	2041.0	1855.2	1798.3
42.5°	2612.7	2245.1	1850.1	1689.7	1640.9
45°	2418.8	2040.0	1671.4	1544.5	1514.0
47.5°	2207.5	1834.9	1503.9	1413.5	1391.1
50°	1980.1	1629.8	1341.4	1291.6	1292.6
52.5°	1763.8	1435.8	1203.3	1190.1	1187.0
55°	1530.3	1249.0	1074.3	1087.5	1090.6
57.5°	1319.0	1075.3	964.7	989.0	992.1
60°	1118.0	920.0	860.1	897.6	902.7
62.5°	934.2	787.0	770.7	809.3	808.3
65°	759.5	666.1	685.4	725.0	728.1
67.5°	611.3	567.6	614.3	648.9	646.8
70°	485.4	479.3	545.3	581.8	579.8
72.5°	377.7	405.2	491.5	522.9	514.8
75°	280.3	341.2	441.7	471.2	464.1
77.5°	206.1	288.4	398.0	426.5	421.4
80°	141.1	244.7	360.5	389.9	383.8
82.5°	90.4	208.2	328.0	356.4	352.4
85°	48.7	175.7	298.5	329.0	323.9
87.5°	18.3	149.3	272.1	302.6	300.6
90°	2.0	127.9	248.8	280.3	278.2
92.5°	3.0	108.7	226.4	258.9	258.9
95°	5.1	90.4	206.1	238.6	237.6
97.5°	4.1	76.2	183.8	219.3	219.3
100°	4.1	63.0	163.5	199.0	201.1
102.5°	4.1	49.8	146.2	180.7	184.8
105°	3.0	35.5	129.0	164.5	168.6
107.5°	3.0	20.3	111.7	149.3	154.3
110°	3.0	5.1	96.5	133.0	139.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	3.0	81.2	117.8	123.9
115°	3.0	3.0	66.0	102.6	111.7
117.5°	2.0	2.0	48.7	89.4	97.5
120°	2.0	2.0	30.5	75.1	83.3
122.5°	2.0	2.0	13.2	59.9	71.1
125°	2.0	2.0	2.0	44.7	55.8
127.5°	2.0	2.0	1.0	26.4	39.6
130°	2.0	2.0	1.0	10.2	24.4
132.5°	2.0	2.0	1.0	1.0	7.1
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)