

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: P289643

Luminaire Tested: **8SSRK-TB-80-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289643  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-TB-80-L840-CD1-U  
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 80 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8167.1 lumens  
Efficiency: N/A  
Efficacy: 144.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.08 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

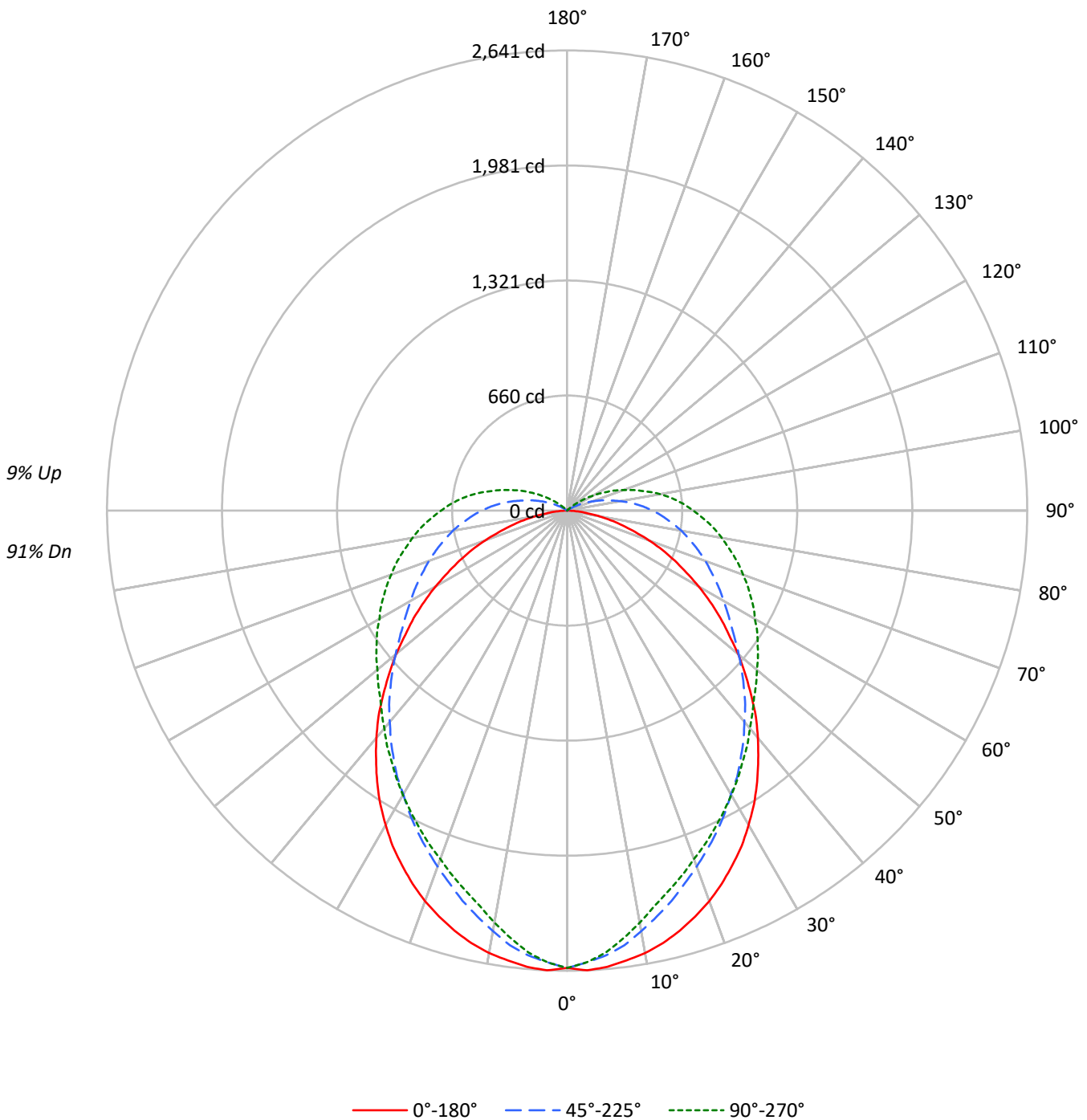
Input Watts (W): 56.6491  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	91
1	104	98	93	89	100	95	90	86	89	85	82	84	80	78	78	76	74	71
2	94	85	77	71	90	82	75	69	77	71	66	72	67	63	68	64	60	58
3	85	74	65	58	82	72	64	57	67	60	55	63	58	53	60	55	51	48
4	78	65	56	49	75	63	55	48	60	52	47	56	50	45	53	48	43	41
5	72	58	49	42	69	57	48	41	53	46	40	50	44	39	48	42	38	35
6	66	53	43	37	64	51	42	36	48	41	35	46	39	34	43	38	33	31
7	61	48	39	32	59	46	38	32	44	37	31	42	35	30	40	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	31	26	24
9	54	40	32	26	52	39	31	26	37	30	25	35	29	24	34	28	24	22
10	50	37	29	24	48	36	28	23	34	28	23	33	27	22	31	26	22	20

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

	0°	45°	90°
0°	84746	84746	84746
5°	85047	66515	61132
10°	84255	53527	46170
15°	82990	43996	36413
20°	81331	36713	29783
25°	79191	31151	24977
30°	76746	26545	21234
35°	73869	22879	18218
40°	70546	19708	15797
45°	66745	17041	13854
50°	62804	14714	12385
55°	58750	12783	11196
60°	54361	11309	10134
65°	49874	10101	9265
70°	44660	9034	8462
75°	38272	8083	7737
80°	30934	7226	7074
85°	21037	6354	6457



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.0	3.0
10°-20°	662.2	8.1
20°-30°	958.1	11.7
30°-40°	1114.5	13.6
40°-50°	1134.4	13.9
50°-60°	1055.6	12.9
60°-70°	919.2	11.3
70°-80°	748.3	9.2
80°-90°	566.8	6.9
90°-100°	393.1	4.8
100°-110°	231.0	2.8
110°-120°	108.3	1.3
120°-130°	30.8	0.4
130°-140°	1.7	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°	1863.3	22.8
0°-40°	2977.8	36.5
0°-60°	5167.9	63.3
0°-90°	7402.1	90.6
90°-120°	732.4	9.0
90°-150°	764.9	9.4
90°-180°	765.0	9.4
0°-180°	8167.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2624	2624	2624	2624	2624	
5°	2628	2608	2562	2562	2546	249
15°	2496	2430	2319	2277	2257	703
25°	2244	2145	2033	2017	2009	1034
35°	1901	1802	1736	1752	1756	1188
45°	1492	1434	1434	1492	1517	1152
55°	1075	1070	1149	1285	1335	959
65°	682	740	938	1104	1161	676
75°	331	484	752	926	988	353
85°	70	302	574	756	814	81
90°	0	219	488	665	723	4
95°	0	140	401	579	636	0
105°	0	33	227	384	438	0
115°	0	0	91	211	256	0
125°	0	0	4	70	103	0
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°	4	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°	2624.4	2624.4	2624.4	2624.4	2624.4
2.5°	2640.9	2628.5	2595.5	2607.9	2595.5
5°	2628.5	2607.9	2562.4	2562.4	2545.9
7.5°	2603.8	2579.0	2517.0	2496.3	2475.6
10°	2579.0	2541.8	2450.8	2426.0	2401.2
12.5°	2541.8	2488.0	2384.7	2347.5	2322.7
15°	2496.3	2430.2	2318.6	2277.2	2256.6
17.5°	2442.6	2368.2	2244.2	2211.1	2194.6
20°	2384.7	2297.9	2173.9	2145.0	2128.5
22.5°	2318.6	2219.4	2103.7	2083.0	2070.6
25°	2244.2	2145.0	2033.4	2016.9	2008.6
27.5°	2169.8	2062.3	1959.0	1950.7	1946.6
30°	2083.0	1979.7	1880.5	1884.6	1884.6
32.5°	1996.2	1892.9	1814.4	1822.6	1822.6
35°	1901.2	1802.0	1735.8	1752.4	1756.5
37.5°	1802.0	1715.2	1661.4	1686.2	1698.6
40°	1702.8	1624.2	1582.9	1620.1	1632.5
42.5°	1603.6	1529.2	1512.7	1558.1	1574.6
45°	1492.0	1434.1	1434.1	1492.0	1516.8
47.5°	1384.5	1347.3	1359.7	1434.1	1471.3
50°	1281.2	1252.3	1285.3	1380.4	1421.7
52.5°	1169.6	1161.4	1215.1	1330.8	1380.4
55°	1074.6	1070.4	1149.0	1285.3	1334.9
57.5°	971.2	983.6	1091.1	1239.9	1293.6
60°	872.1	896.8	1037.4	1194.4	1244.0
62.5°	772.9	822.5	987.8	1149.0	1206.8
65°	681.9	739.8	938.2	1103.5	1161.4
67.5°	591.0	665.4	888.6	1062.2	1120.0
70°	500.1	599.3	843.1	1016.7	1074.6
72.5°	409.2	541.4	797.7	971.2	1033.2
75°	330.6	483.6	752.2	925.8	987.8
77.5°	256.2	438.1	706.7	888.6	942.3
80°	186.0	388.5	665.4	843.1	901.0
82.5°	119.9	347.2	619.9	797.7	859.7
85°	70.3	301.7	574.5	756.3	814.2
87.5°	28.9	256.2	533.1	710.9	768.7
90°	0.0	219.0	487.7	665.4	723.3
92.5°	0.0	181.8	446.4	624.1	681.9
95°	0.0	140.5	400.9	578.6	636.5
97.5°	0.0	107.5	355.4	533.1	591.0
100°	0.0	82.7	310.0	479.4	541.4
102.5°	0.0	57.9	264.5	429.8	491.8
105°	0.0	33.1	227.3	384.4	438.1
107.5°	0.0	16.5	190.1	338.9	392.6
110°	0.0	4.1	152.9	293.4	343.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	119.9	252.1	301.7
115°	0.0	0.0	90.9	210.8	256.2
117.5°	0.0	0.0	62.0	173.6	214.9
120°	0.0	0.0	37.2	136.4	173.6
122.5°	0.0	0.0	16.5	103.3	136.4
125°	0.0	0.0	4.1	70.3	103.3
127.5°	0.0	0.0	0.0	41.3	70.3
130°	0.0	0.0	0.0	20.7	41.3
132.5°	0.0	0.0	0.0	4.1	16.5
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°	4.1	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)