

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: **4SSRK-TB-80-L850-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: 4SSRK-TB-80-L850-CD1-U  
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 80 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8043.0 lumens  
Efficiency: N/A  
Efficacy: 127.9 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.08 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

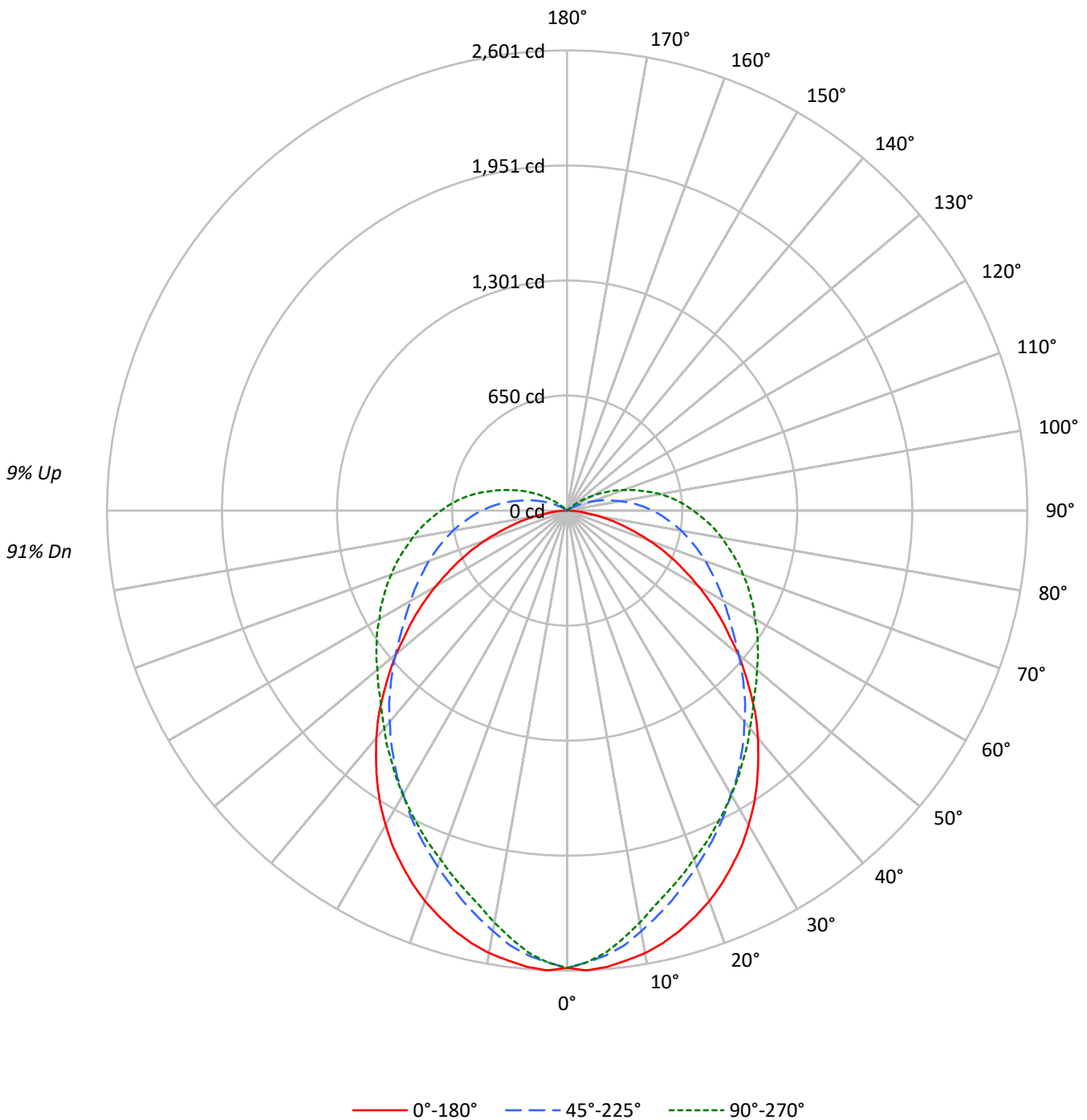
Input Watts (W): 62.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	166915	166915	166915
5°	167209	130875	120405
10°	165343	105246	90941
15°	162557	86462	71718
20°	158996	72121	58660
25°	154489	61174	49196
30°	149387	52115	41823
35°	143430	44910	35882
40°	136599	38677	31113
45°	128829	33436	27285
50°	120770	28866	24393
55°	112458	25072	22053
60°	103461	22178	19959
65°	94213	19805	18248
70°	83445	17712	16666
75°	70313	15846	15240
80°	55112	14163	13933
85°	34735	12454	12717



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.3	3.0
10°-20°	652.2	8.1
20°-30°	943.6	11.7
30°-40°	1097.6	13.6
40°-50°	1117.2	13.9
50°-60°	1039.6	12.9
60°-70°	905.2	11.3
70°-80°	736.9	9.2
80°-90°	558.2	6.9
90°-100°	387.1	4.8
100°-110°	227.5	2.8
110°-120°	106.7	1.3
120°-130°	30.4	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°	1835.0	22.8
0°-40°	2932.6	36.5
0°-60°	5089.4	63.3
0°-90°	7289.7	90.6
90°-120°	721.3	9.0
90°-150°	753.3	9.4
90°-180°	753.0	9.4
0°-180°	8043.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2584	2584	2584	2584	2584	
5°	2589	2568	2524	2524	2507	245
15°	2458	2393	2283	2243	2222	693
25°	2210	2112	2002	1986	1978	1018
35°	1872	1775	1710	1726	1730	1170
45°	1469	1412	1412	1469	1494	1134
55°	1058	1054	1132	1266	1315	945
65°	672	729	924	1087	1144	665
75°	326	476	741	912	973	348
85°	69	297	566	745	802	80
90°	0	216	480	655	712	4
95°	0	138	395	570	627	0
105°	0	33	224	378	431	0
115°	0	0	90	208	252	0
125°	0	0	4	69	102	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°	2584.5	2584.5	2584.5	2584.5	2584.5
2.5°	2600.8	2588.6	2556.1	2568.3	2556.1
5°	2588.6	2568.3	2523.5	2523.5	2507.2
7.5°	2564.2	2539.8	2478.7	2458.4	2438.0
10°	2539.8	2503.1	2413.6	2389.2	2364.8
12.5°	2503.1	2450.2	2348.5	2311.8	2287.4
15°	2458.4	2393.3	2283.4	2242.7	2222.3
17.5°	2405.5	2332.2	2210.1	2177.5	2161.3
20°	2348.5	2263.0	2140.9	2112.4	2096.1
22.5°	2283.4	2185.7	2071.7	2051.4	2039.1
25°	2210.1	2112.4	2002.5	1986.2	1978.1
27.5°	2136.8	2031.0	1929.3	1921.1	1917.0
30°	2051.4	1949.6	1851.9	1856.0	1856.0
32.5°	1965.9	1864.1	1786.8	1794.9	1794.9
35°	1872.3	1774.6	1709.5	1725.7	1729.8
37.5°	1774.6	1689.1	1636.2	1660.6	1672.8
40°	1676.9	1599.6	1558.9	1595.5	1607.7
42.5°	1579.2	1506.0	1489.7	1534.4	1550.7
45°	1469.3	1412.3	1412.3	1469.3	1493.7
47.5°	1363.5	1326.9	1339.1	1412.3	1449.0
50°	1261.7	1233.3	1265.8	1359.4	1400.1
52.5°	1151.9	1143.7	1196.6	1310.6	1359.4
55°	1058.2	1054.2	1131.5	1265.8	1314.7
57.5°	956.5	968.7	1074.5	1221.0	1274.0
60°	858.8	883.2	1021.6	1176.3	1225.1
62.5°	761.1	810.0	972.8	1131.5	1188.5
65°	671.6	728.6	923.9	1086.7	1143.7
67.5°	582.0	655.3	875.1	1046.0	1103.0
70°	492.5	590.2	830.3	1001.3	1058.2
72.5°	402.9	533.2	785.5	956.5	1017.5
75°	325.6	476.2	740.8	911.7	972.8
77.5°	252.3	431.4	696.0	875.1	928.0
80°	183.2	382.6	655.3	830.3	887.3
82.5°	118.0	341.9	610.5	785.5	846.6
85°	69.2	297.1	565.8	744.8	801.8
87.5°	28.5	252.3	525.1	700.1	757.0
90°	0.0	215.7	480.3	655.3	712.3
92.5°	0.0	179.1	439.6	614.6	671.6
95°	0.0	138.4	394.8	569.8	626.8
97.5°	0.0	105.8	350.0	525.1	582.0
100°	0.0	81.4	305.3	472.1	533.2
102.5°	0.0	57.0	260.5	423.3	484.3
105°	0.0	32.6	223.9	378.5	431.4
107.5°	0.0	16.3	187.2	333.8	386.7
110°	0.0	4.1	150.6	289.0	337.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	118.0	248.3	297.1
115°	0.0	0.0	89.5	207.6	252.3
117.5°	0.0	0.0	61.1	170.9	211.6
120°	0.0	0.0	36.6	134.3	170.9
122.5°	0.0	0.0	16.3	101.8	134.3
125°	0.0	0.0	4.1	69.2	101.8
127.5°	0.0	0.0	0.0	40.7	69.2
130°	0.0	0.0	0.0	20.4	40.7
132.5°	0.0	0.0	0.0	4.1	16.3
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)