

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-10-L940-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-10-L940-CD1-U  
Description: 10000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 90 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

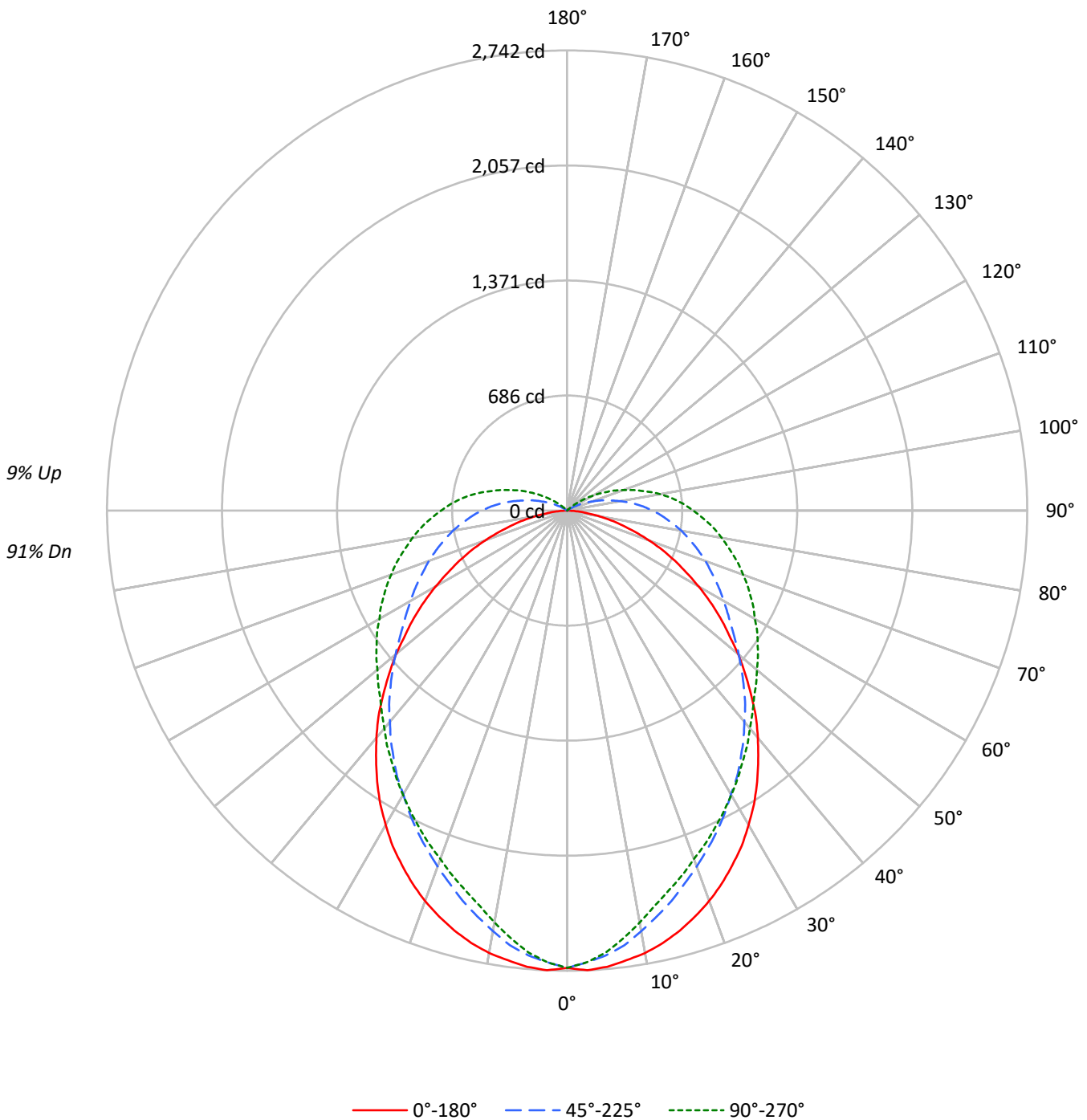
Lumens per Lamp: N/A  
Luminaire Lumens: 8478.1 lumens  
Efficiency: N/A  
Efficacy: 117.9 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.08 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 71.9151  
Input Voltage (V): NR  
Input 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	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°	87975	87975	87975
5°	88289	69048	63461
10°	87463	55567	47930
15°	86151	45671	37799
20°	84428	38111	30917
25°	82208	32338	25929
30°	79667	27556	22043
35°	76682	23750	18912
40°	73230	20459	16398
45°	69286	17691	14382
50°	65196	15275	12857
55°	60986	13269	11623
60°	56431	11739	10520
65°	51776	10485	9618
70°	46357	9378	8784
75°	39730	8390	8032
80°	32114	7501	7343
85°	21815	6597	6703



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.2	3.0
10°-20°	687.4	8.1
20°-30°	994.6	11.7
30°-40°	1157.0	13.6
40°-50°	1177.7	13.9
50°-60°	1095.8	12.9
60°-70°	954.2	11.3
70°-80°	776.7	9.2
80°-90°	588.4	6.9
90°-100°	408.0	4.8
100°-110°	239.8	2.8
110°-120°	112.4	1.3
120°-130°	32.0	0.4
130°-140°	1.8	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°	1934.3	22.8
0°-40°	3091.3	36.5
0°-60°	5364.7	63.3
0°-90°	7684.1	90.6
90°-120°	760.3	9.0
90°-150°	794.1	9.4
90°-180°	794.0	9.4
0°-180°	8478.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2724	2724	2724	2724	2724	
5°	2729	2707	2660	2660	2643	259
15°	2591	2523	2407	2364	2342	730
25°	2330	2227	2111	2094	2085	1073
35°	1974	1871	1802	1819	1823	1233
45°	1549	1489	1489	1549	1575	1196
55°	1116	1111	1193	1334	1386	996
65°	708	768	974	1146	1206	701
75°	343	502	781	961	1025	366
85°	73	313	596	785	845	84
90°	0	227	506	691	751	4
95°	0	146	416	601	661	0
105°	0	34	236	399	455	0
115°	0	0	94	219	266	0
125°	0	0	4	73	107	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°	2724.4	2724.4	2724.4	2724.4	2724.4
2.5°	2741.5	2728.7	2694.3	2707.2	2694.3
5°	2728.7	2707.2	2660.0	2660.0	2642.9
7.5°	2702.9	2677.2	2612.8	2591.4	2569.9
10°	2677.2	2638.6	2544.2	2518.4	2492.7
12.5°	2638.6	2582.8	2475.5	2436.9	2411.2
15°	2591.4	2522.7	2406.9	2364.0	2342.5
17.5°	2535.6	2458.4	2329.7	2295.3	2278.2
20°	2475.5	2385.4	2256.7	2226.7	2209.5
22.5°	2406.9	2303.9	2183.8	2162.3	2149.5
25°	2329.7	2226.7	2110.9	2093.7	2085.1
27.5°	2252.4	2140.9	2033.6	2025.0	2020.8
30°	2162.3	2055.1	1952.1	1956.4	1956.4
32.5°	2072.2	1965.0	1883.5	1892.0	1892.0
35°	1973.6	1870.6	1801.9	1819.1	1823.4
37.5°	1870.6	1780.5	1724.7	1750.5	1763.3
40°	1767.6	1686.1	1643.2	1681.8	1694.7
42.5°	1664.7	1587.4	1570.3	1617.5	1634.6
45°	1548.8	1488.8	1488.8	1548.8	1574.6
47.5°	1437.3	1398.7	1411.5	1488.8	1527.4
50°	1330.0	1300.0	1334.3	1433.0	1475.9
52.5°	1214.2	1205.6	1261.4	1381.5	1433.0
55°	1115.5	1111.2	1192.7	1334.3	1385.8
57.5°	1008.2	1021.1	1132.7	1287.1	1342.9
60°	905.3	931.0	1076.9	1239.9	1291.4
62.5°	802.3	853.8	1025.4	1192.7	1252.8
65°	707.9	768.0	973.9	1145.5	1205.6
67.5°	613.5	690.7	922.4	1102.6	1162.7
70°	519.1	622.1	875.2	1055.4	1115.5
72.5°	424.7	562.0	828.0	1008.2	1072.6
75°	343.2	502.0	780.8	961.0	1025.4
77.5°	266.0	454.8	733.7	922.4	978.2
80°	193.1	403.3	690.7	875.2	935.3
82.5°	124.4	360.4	643.6	828.0	892.4
85°	72.9	313.2	596.4	785.1	845.2
87.5°	30.0	266.0	553.5	737.9	798.0
90°	0.0	227.4	506.3	690.7	750.8
92.5°	0.0	188.8	463.4	647.8	707.9
95°	0.0	145.9	416.2	600.6	660.7
97.5°	0.0	111.5	369.0	553.5	613.5
100°	0.0	85.8	321.8	497.7	562.0
102.5°	0.0	60.1	274.6	446.2	510.6
105°	0.0	34.3	236.0	399.0	454.8
107.5°	0.0	17.2	197.4	351.8	407.6
110°	0.0	4.3	158.7	304.6	356.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	124.4	261.7	313.2
115°	0.0	0.0	94.4	218.8	266.0
117.5°	0.0	0.0	64.4	180.2	223.1
120°	0.0	0.0	38.6	141.6	180.2
122.5°	0.0	0.0	17.2	107.3	141.6
125°	0.0	0.0	4.3	72.9	107.3
127.5°	0.0	0.0	0.0	42.9	72.9
130°	0.0	0.0	0.0	21.5	42.9
132.5°	0.0	0.0	0.0	4.3	17.2
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°	4.3	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)