

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-L830-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-L830-CD1-U  
Description: 10000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 80 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9687.2 lumens  
Efficiency: N/A  
Efficacy: 134.7 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

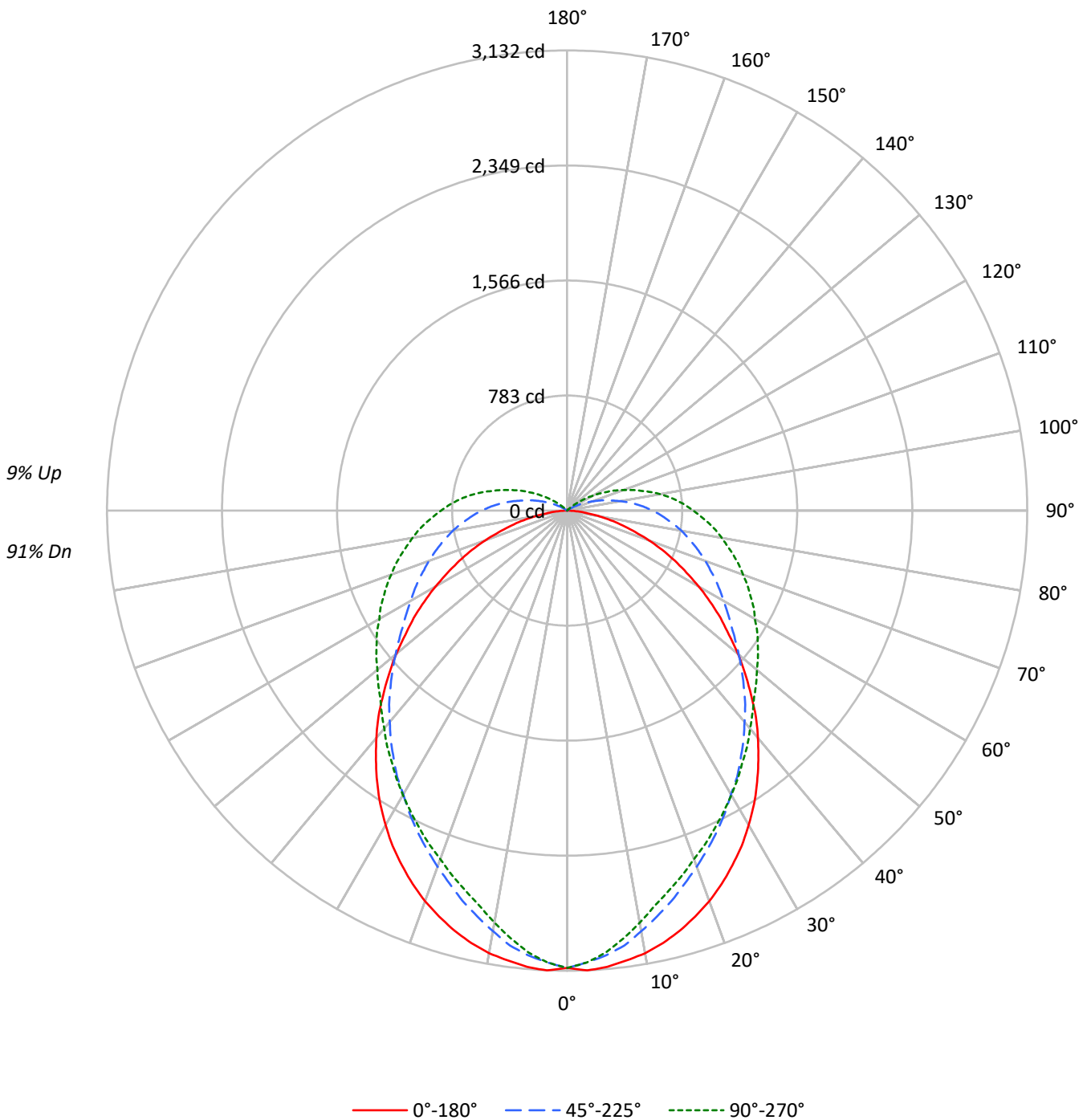
Input Watts (W): 71.9151  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	100520	100520	100520
5°	100879	78897	72511
10°	99936	63490	54765
15°	98435	52183	43190
20°	96470	43547	35326
25°	93930	36949	29627
30°	91030	31486	25186
35°	87615	27138	21608
40°	83675	23376	18737
45°	79168	20214	16432
50°	74495	17453	14690
55°	69685	15161	13280
60°	64478	13414	12020
65°	59163	11980	10989
70°	52974	10716	10037
75°	45403	9587	9177
80°	36688	8571	8391
85°	24927	7537	7658



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.2	3.0
10°-20°	785.5	8.1
20°-30°	1136.5	11.7
30°-40°	1322.0	13.6
40°-50°	1345.6	13.9
50°-60°	1252.1	12.9
60°-70°	1090.3	11.3
70°-80°	887.5	9.2
80°-90°	672.3	6.9
90°-100°	466.2	4.8
100°-110°	274.0	2.8
110°-120°	128.5	1.3
120°-130°	36.6	0.4
130°-140°	2.0	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°	2210.1	22.8
0°-40°	3532.1	36.5
0°-60°	6129.8	63.3
0°-90°	8779.9	90.6
90°-120°	868.7	9.0
90°-150°	907.3	9.4
90°-180°	907.0	9.4
0°-180°	9687.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3113	3113	3113	3113	3113	
5°	3118	3093	3039	3039	3020	295
15°	2961	2882	2750	2701	2677	834
25°	2662	2544	2412	2392	2382	1226
35°	2255	2137	2059	2078	2083	1409
45°	1770	1701	1701	1770	1799	1366
55°	1275	1270	1363	1525	1583	1138
65°	809	878	1113	1309	1378	801
75°	392	574	892	1098	1172	419
85°	83	358	681	897	966	96
90°	0	260	578	789	858	5
95°	0	167	476	686	755	0
105°	0	39	270	456	520	0
115°	0	0	108	250	304	0
125°	0	0	5	83	123	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°	5	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°	3112.9	3112.9	3112.9	3112.9	3112.9
2.5°	3132.5	3117.8	3078.6	3093.3	3078.6
5°	3117.8	3093.3	3039.4	3039.4	3019.8
7.5°	3088.4	3059.0	2985.4	2960.9	2936.4
10°	3059.0	3014.9	2907.0	2877.6	2848.2
12.5°	3014.9	2951.1	2828.6	2784.5	2755.0
15°	2960.9	2882.5	2750.1	2701.1	2676.6
17.5°	2897.2	2809.0	2661.9	2622.7	2603.1
20°	2828.6	2725.6	2578.6	2544.3	2524.6
22.5°	2750.1	2632.5	2495.2	2470.7	2456.0
25°	2661.9	2544.3	2411.9	2392.3	2382.5
27.5°	2573.7	2446.2	2323.7	2313.8	2308.9
30°	2470.7	2348.2	2230.5	2235.4	2235.4
32.5°	2367.8	2245.2	2152.1	2161.9	2161.9
35°	2255.0	2137.4	2058.9	2078.5	2083.4
37.5°	2137.4	2034.4	1970.7	2000.1	2014.8
40°	2019.7	1926.6	1877.5	1921.7	1936.4
42.5°	1902.1	1813.8	1794.2	1848.1	1867.7
45°	1769.7	1701.1	1701.1	1769.7	1799.1
47.5°	1642.2	1598.1	1612.8	1701.1	1745.2
50°	1519.7	1485.4	1524.6	1637.3	1686.4
52.5°	1387.3	1377.5	1441.3	1578.5	1637.3
55°	1274.6	1269.7	1362.8	1524.6	1583.4
57.5°	1152.0	1166.7	1294.2	1470.7	1534.4
60°	1034.4	1063.8	1230.5	1416.7	1475.6
62.5°	916.7	975.5	1171.6	1362.8	1431.4
65°	808.9	877.5	1112.8	1308.9	1377.5
67.5°	701.0	789.3	1054.0	1259.9	1328.5
70°	593.2	710.8	1000.1	1205.9	1274.6
72.5°	485.3	642.2	946.1	1152.0	1225.6
75°	392.2	573.6	892.2	1098.1	1171.6
77.5°	303.9	519.6	838.3	1054.0	1117.7
80°	220.6	460.8	789.3	1000.1	1068.7
82.5°	142.2	411.8	735.3	946.1	1019.7
85°	83.3	357.9	681.4	897.1	965.7
87.5°	34.3	303.9	632.4	843.2	911.8
90°	0.0	259.8	578.5	789.3	857.9
92.5°	0.0	215.7	529.4	740.2	808.9
95°	0.0	166.7	475.5	686.3	754.9
97.5°	0.0	127.5	421.6	632.4	701.0
100°	0.0	98.0	367.7	568.7	642.2
102.5°	0.0	68.6	313.7	509.8	583.4
105°	0.0	39.2	269.6	455.9	519.6
107.5°	0.0	19.6	225.5	402.0	465.7
110°	0.0	4.9	181.4	348.1	406.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	142.2	299.0	357.9
115°	0.0	0.0	107.8	250.0	303.9
117.5°	0.0	0.0	73.5	205.9	254.9
120°	0.0	0.0	44.1	161.8	205.9
122.5°	0.0	0.0	19.6	122.6	161.8
125°	0.0	0.0	4.9	83.3	122.6
127.5°	0.0	0.0	0.0	49.0	83.3
130°	0.0	0.0	0.0	24.5	49.0
132.5°	0.0	0.0	0.0	4.9	19.6
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°	4.9	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)