

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-50-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-50-L830-CD1-U  
Description: 5000 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: 4803.2 lumens  
Efficiency: N/A  
Efficacy: 140.4 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

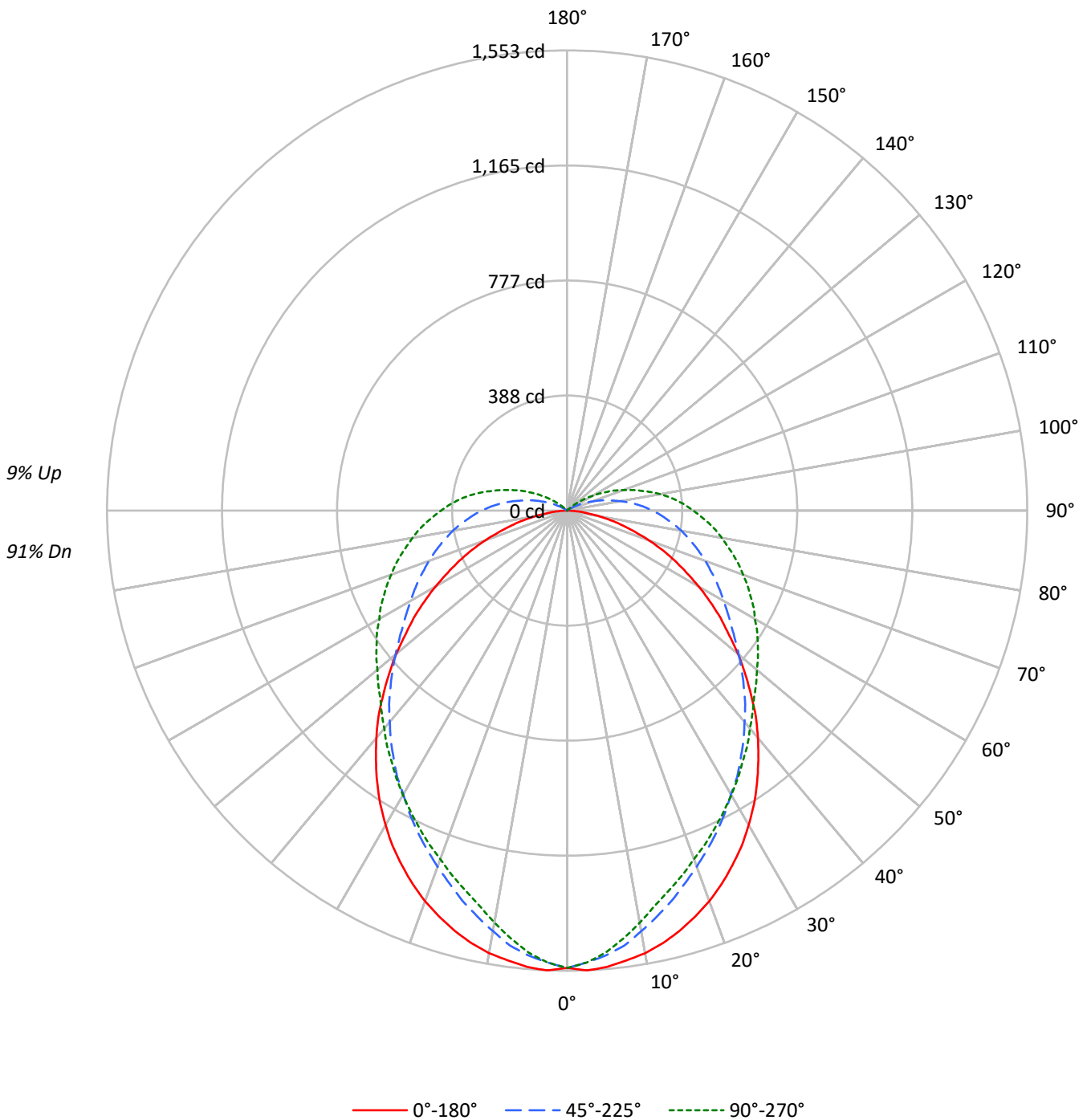
Input Watts (W): 34.1991  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	49842	49842	49842
5°	50019	39119	35953
10°	49550	31481	27154
15°	48807	25874	21414
20°	47833	21591	17516
25°	46575	18321	14690
30°	45137	15612	12488
35°	43442	13456	10714
40°	41487	11590	9290
45°	39255	10022	8148
50°	36936	8653	7284
55°	34553	7517	6585
60°	31971	6651	5960
65°	29337	5941	5449
70°	26264	5314	4977
75°	22516	4754	4550
80°	18194	4249	4160
85°	12359	3737	3797



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.9	3.0
10°-20°	389.5	8.1
20°-30°	563.5	11.7
30°-40°	655.5	13.6
40°-50°	667.2	13.9
50°-60°	620.8	12.9
60°-70°	540.6	11.3
70°-80°	440.1	9.2
80°-90°	333.4	6.9
90°-100°	231.2	4.8
100°-110°	135.9	2.8
110°-120°	63.7	1.3
120°-130°	18.1	0.4
130°-140°	1.0	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°	1095.9	22.8
0°-40°	1751.3	36.5
0°-60°	3039.3	63.3
0°-90°	4353.4	90.6
90°-120°	430.7	9.0
90°-150°	449.9	9.4
90°-180°	450.0	9.4
0°-180°	4803.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1544	1544	1544	1544	1544	
5°	1546	1534	1507	1507	1497	147
15°	1468	1429	1364	1339	1327	414
25°	1320	1262	1196	1186	1181	608
35°	1118	1060	1021	1031	1033	698
45°	878	843	843	878	892	677
55°	632	630	676	756	785	564
65°	401	435	552	649	683	397
75°	194	284	442	544	581	208
85°	41	177	338	445	479	48
90°	0	129	287	391	425	2
95°	0	83	236	340	374	0
105°	0	19	134	226	258	0
115°	0	0	54	124	151	0
125°	0	0	2	41	61	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°	2	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: 8SSRK-TB-50-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1543.5	1543.5	1543.5	1543.5	1543.5
2.5°	1553.2	1545.9	1526.5	1533.8	1526.5
5°	1545.9	1533.8	1507.0	1507.0	1497.3
7.5°	1531.3	1516.7	1480.3	1468.1	1456.0
10°	1516.7	1494.9	1441.4	1426.8	1412.2
12.5°	1494.9	1463.3	1402.5	1380.6	1366.0
15°	1468.1	1429.2	1363.6	1339.3	1327.1
17.5°	1436.5	1392.8	1319.9	1300.4	1290.7
20°	1402.5	1351.5	1278.5	1261.5	1251.8
22.5°	1363.6	1305.3	1237.2	1225.1	1217.8
25°	1319.9	1261.5	1195.9	1186.2	1181.3
27.5°	1276.1	1212.9	1152.1	1147.3	1144.8
30°	1225.1	1164.3	1106.0	1108.4	1108.4
32.5°	1174.0	1113.2	1067.1	1071.9	1071.9
35°	1118.1	1059.8	1020.9	1030.6	1033.0
37.5°	1059.8	1008.7	977.1	991.7	999.0
40°	1001.4	955.3	930.9	952.8	960.1
42.5°	943.1	899.3	889.6	916.4	926.1
45°	877.5	843.4	843.4	877.5	892.1
47.5°	814.3	792.4	799.7	843.4	865.3
50°	753.5	736.5	755.9	811.8	836.2
52.5°	687.9	683.0	714.6	782.7	811.8
55°	632.0	629.5	675.7	755.9	785.1
57.5°	571.2	578.5	641.7	729.2	760.8
60°	512.9	527.5	610.1	702.5	731.6
62.5°	454.5	483.7	580.9	675.7	709.8
65°	401.1	435.1	551.8	649.0	683.0
67.5°	347.6	391.3	522.6	624.7	658.7
70°	294.1	352.4	495.9	597.9	632.0
72.5°	240.6	318.4	469.1	571.2	607.7
75°	194.5	284.4	442.4	544.5	580.9
77.5°	150.7	257.7	415.6	522.6	554.2
80°	109.4	228.5	391.3	495.9	529.9
82.5°	70.5	204.2	364.6	469.1	505.6
85°	41.3	177.4	337.9	444.8	478.8
87.5°	17.0	150.7	313.6	418.1	452.1
90°	0.0	128.8	286.8	391.3	425.4
92.5°	0.0	106.9	262.5	367.0	401.1
95°	0.0	82.6	235.8	340.3	374.3
97.5°	0.0	63.2	209.0	313.6	347.6
100°	0.0	48.6	182.3	282.0	318.4
102.5°	0.0	34.0	155.6	252.8	289.2
105°	0.0	19.4	133.7	226.1	257.7
107.5°	0.0	9.7	111.8	199.3	230.9
110°	0.0	2.4	89.9	172.6	201.7



TEST NUMBER: P289643

CATALOG NUMBER: 8SSRK-TB-50-L830-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	70.5	148.3	177.4
115°	0.0	0.0	53.5	124.0	150.7
117.5°	0.0	0.0	36.5	102.1	126.4
120°	0.0	0.0	21.9	80.2	102.1
122.5°	0.0	0.0	9.7	60.8	80.2
125°	0.0	0.0	2.4	41.3	60.8
127.5°	0.0	0.0	0.0	24.3	41.3
130°	0.0	0.0	0.0	12.2	24.3
132.5°	0.0	0.0	0.0	2.4	9.7
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°	2.4	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)