

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-40-L835-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-40-L835-CD1-U  
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 80 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3881.3 lumens  
Efficiency: N/A  
Efficacy: 143.7 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

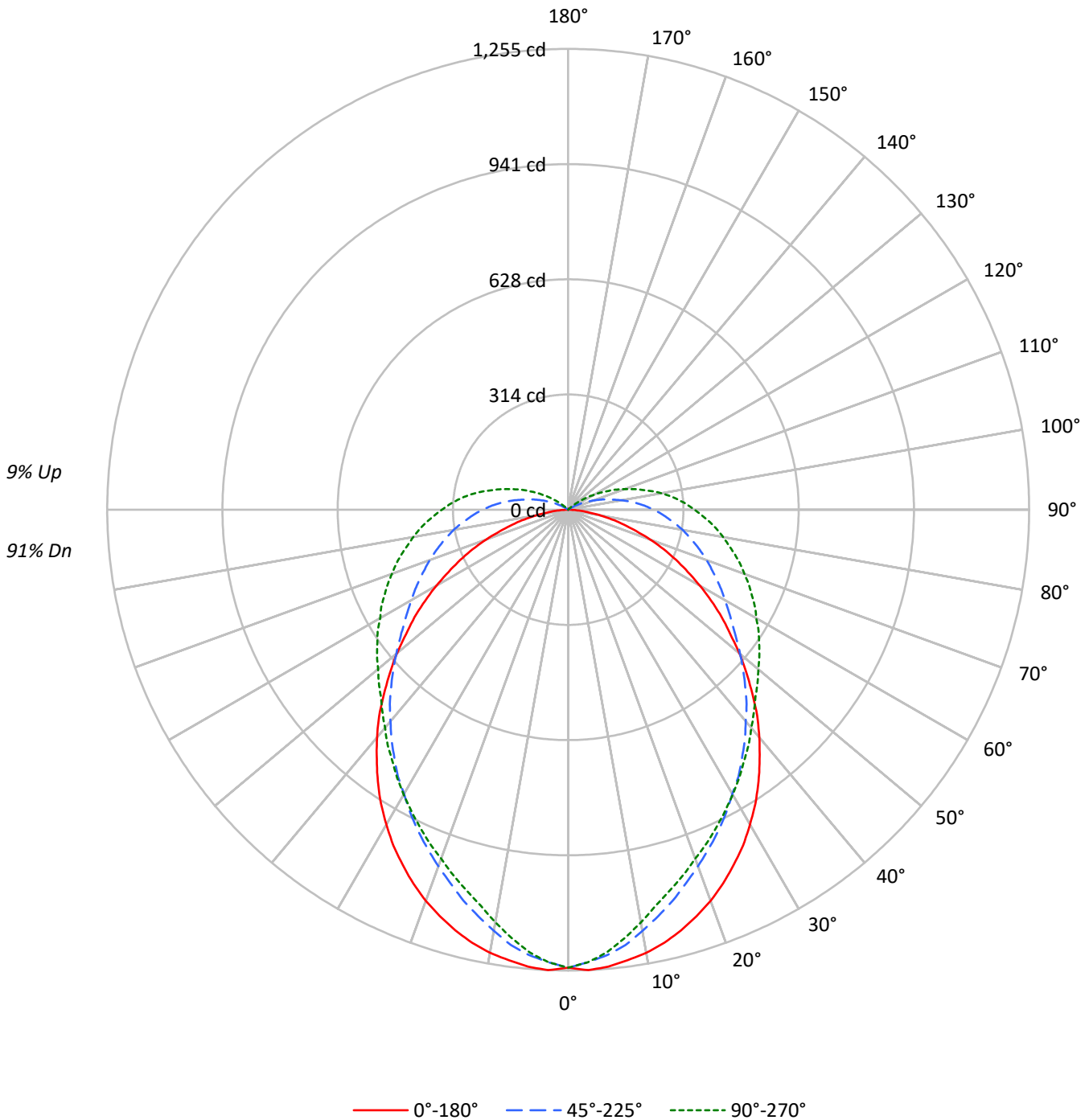
Input Watts (W): 27.0151  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20										
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	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°	40274	40274	40274
5°	40419	31609	29052
10°	40040	25438	21941
15°	39439	20909	17304
20°	38652	17447	14153
25°	37633	14803	11869
30°	36472	12615	10091
35°	35104	10873	8657
40°	33525	9365	7507
45°	31717	8098	6583
50°	29848	6992	5885
55°	27921	6074	5321
60°	25831	5374	4816
65°	23705	4800	4403
70°	21227	4293	4022
75°	18187	3842	3677
80°	14702	3434	3362
85°	9995	3020	3068



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.5	3.0
10°-20°	314.7	8.1
20°-30°	455.3	11.7
30°-40°	529.7	13.6
40°-50°	539.1	13.9
50°-60°	501.6	12.9
60°-70°	436.8	11.3
70°-80°	355.6	9.2
80°-90°	269.4	6.9
90°-100°	186.8	4.8
100°-110°	109.8	2.8
110°-120°	51.5	1.3
120°-130°	14.7	0.4
130°-140°	0.8	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°	885.5	22.8
0°-40°	1415.2	36.5
0°-60°	2455.9	63.3
0°-90°	3517.7	90.6
90°-120°	348.1	9.0
90°-150°	363.5	9.4
90°-180°	364.0	9.4
0°-180°	3881.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1249	1239	1218	1218	1210	118
15°	1186	1155	1102	1082	1072	334
25°	1066	1019	966	958	954	491
35°	904	856	825	833	835	564
45°	709	682	682	709	721	547
55°	511	509	546	611	634	456
65°	324	352	446	524	552	321
75°	157	230	358	440	469	168
85°	33	143	273	359	387	38
90°	0	104	232	316	344	2
95°	0	67	190	275	302	0
105°	0	16	108	183	208	0
115°	0	0	43	100	122	0
125°	0	0	2	33	49	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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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1247.2	1247.2	1247.2	1247.2	1247.2
2.5°	1255.1	1249.2	1233.4	1239.3	1233.4
5°	1249.2	1239.3	1217.7	1217.7	1209.9
7.5°	1237.4	1225.6	1196.1	1186.3	1176.5
10°	1225.6	1207.9	1164.7	1152.9	1141.1
12.5°	1207.9	1182.4	1133.3	1115.6	1103.8
15°	1186.3	1154.9	1101.9	1082.2	1072.4
17.5°	1160.8	1125.4	1066.5	1050.8	1042.9
20°	1133.3	1092.0	1033.1	1019.4	1011.5
22.5°	1101.9	1054.7	999.7	989.9	984.0
25°	1066.5	1019.4	966.3	958.5	954.5
27.5°	1031.1	980.1	931.0	927.1	925.1
30°	989.9	940.8	893.7	895.6	895.6
32.5°	948.7	899.6	862.2	866.2	866.2
35°	903.5	856.3	824.9	832.8	834.7
37.5°	856.3	815.1	789.6	801.3	807.2
40°	809.2	771.9	752.2	769.9	775.8
42.5°	762.1	726.7	718.9	740.5	748.3
45°	709.0	681.5	681.5	709.0	720.8
47.5°	658.0	640.3	646.2	681.5	699.2
50°	608.9	595.1	610.8	656.0	675.6
52.5°	555.8	551.9	577.4	632.4	656.0
55°	510.7	508.7	546.0	610.8	634.4
57.5°	461.6	467.5	518.5	589.2	614.8
60°	414.4	426.2	493.0	567.6	591.2
62.5°	367.3	390.9	469.4	546.0	573.5
65°	324.1	351.6	445.8	524.4	551.9
67.5°	280.9	316.2	422.3	504.8	532.3
70°	237.7	284.8	400.7	483.2	510.7
72.5°	194.4	257.3	379.1	461.6	491.0
75°	157.1	229.8	357.5	440.0	469.4
77.5°	121.8	208.2	335.9	422.3	447.8
80°	88.4	184.6	316.2	400.7	428.2
82.5°	57.0	165.0	294.6	379.1	408.5
85°	33.4	143.4	273.0	359.4	386.9
87.5°	13.7	121.8	253.4	337.8	365.3
90°	0.0	104.1	231.8	316.2	343.7
92.5°	0.0	86.4	212.1	296.6	324.1
95°	0.0	66.8	190.5	275.0	302.5
97.5°	0.0	51.1	168.9	253.4	280.9
100°	0.0	39.3	147.3	227.8	257.3
102.5°	0.0	27.5	125.7	204.3	233.7
105°	0.0	15.7	108.0	182.7	208.2
107.5°	0.0	7.9	90.3	161.1	186.6
110°	0.0	2.0	72.7	139.5	163.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	57.0	119.8	143.4
115°	0.0	0.0	43.2	100.2	121.8
117.5°	0.0	0.0	29.5	82.5	102.1
120°	0.0	0.0	17.7	64.8	82.5
122.5°	0.0	0.0	7.9	49.1	64.8
125°	0.0	0.0	2.0	33.4	49.1
127.5°	0.0	0.0	0.0	19.6	33.4
130°	0.0	0.0	0.0	9.8	19.6
132.5°	0.0	0.0	0.0	2.0	7.9
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°	2.0	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)