

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: P289777

Luminaire Tested: **8SSRK-TS-40-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289777  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-6)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-TS-40-L835-CD1-U  
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 80 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3696.4 lumens  
Efficiency: N/A  
Efficacy: 136.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Semi-Direct

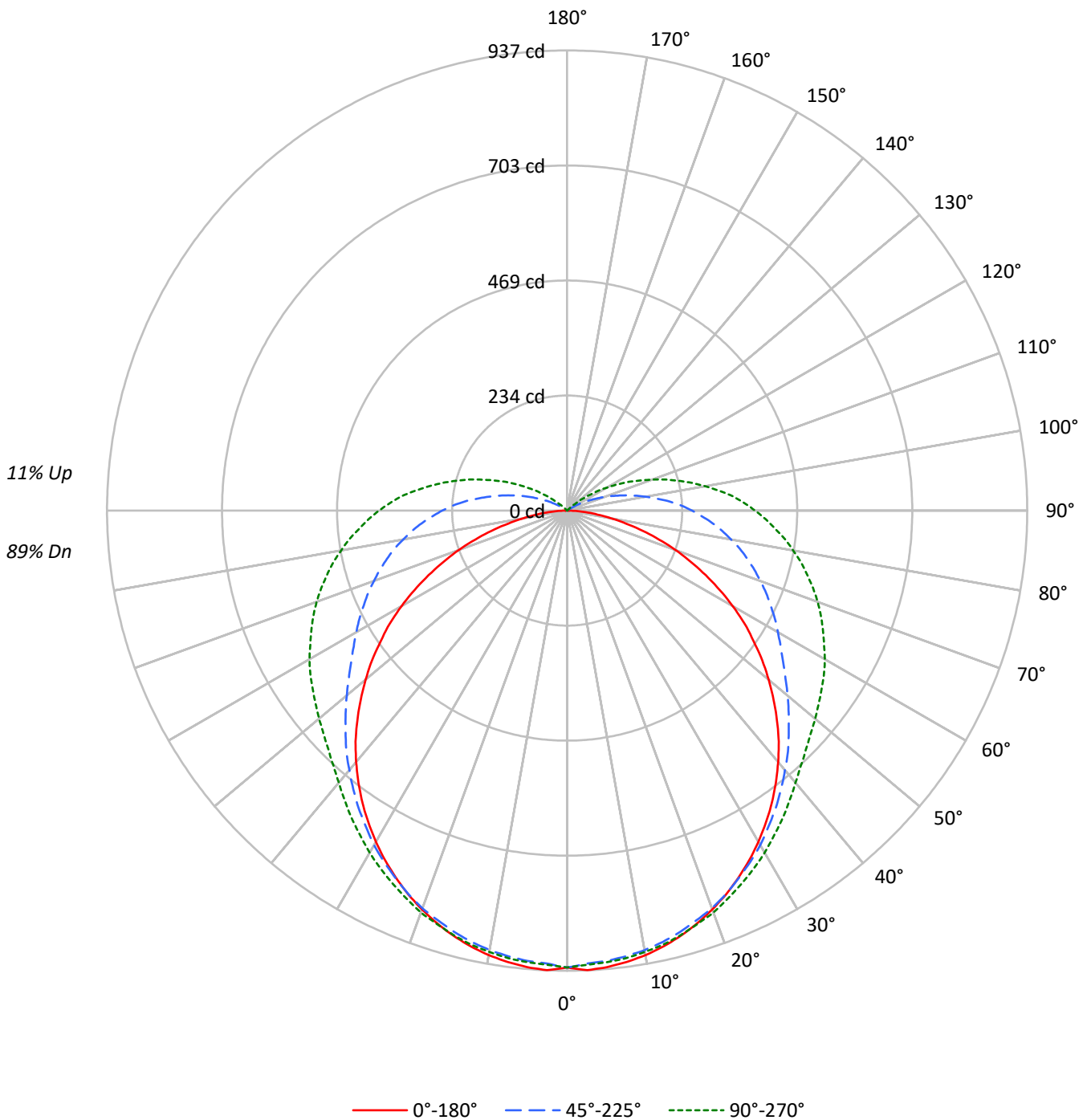
Input Watts (W): 27.0151  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89				
1	103	97	91	87	99	94	89	84	87	83	79	81	78	75	76	73	71	68				
2	93	83	75	68	89	80	73	67	75	68	63	70	65	60	65	61	57	54				
3	84	72	63	56	80	69	61	54	65	58	52	61	55	50	57	52	47	45				
4	76	63	54	46	73	61	52	45	57	50	44	53	47	42	50	45	40	37				
5	70	56	47	39	67	54	45	39	51	43	37	48	41	36	45	39	34	32				
6	65	50	41	34	62	49	40	34	46	38	32	43	36	31	41	35	30	28				
7	60	46	36	30	57	44	36	29	42	34	28	39	33	28	37	31	27	24				
8	56	41	33	27	53	40	32	26	38	31	25	36	29	25	34	28	24	22				
9	52	38	29	24	50	37	29	23	35	28	23	33	27	22	31	26	21	19				
10	49	35	27	21	47	34	26	21	32	25	21	31	24	20	29	23	19	17				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	30044	30044	30044
5°	30198	23900	22168
10°	30033	19846	17546
15°	29791	16857	14437
20°	29477	14556	12187
25°	29101	12657	10436
30°	28698	11104	9063
35°	28239	9758	7933
40°	27691	8592	7000
45°	27029	7581	6281
50°	26260	6706	5742
55°	25329	5970	5306
60°	24273	5403	4937
65°	22769	4920	4585
70°	20986	4483	4275
75°	18488	4081	3965
80°	15334	3684	3667
85°	11252	3293	3371



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.0	2.4
10°-20°	252.2	6.8
20°-30°	383.0	10.4
30°-40°	465.5	12.6
40°-50°	496.8	13.4
50°-60°	487.3	13.2
60°-70°	445.2	12.0
70°-80°	377.8	10.2
80°-90°	294.0	8.0
90°-100°	207.3	5.6
100°-110°	123.2	3.3
110°-120°	58.3	1.6
120°-130°	16.9	0.5
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°	723.2	19.6
0°-40°	1188.7	32.2
0°-60°	2172.8	58.8
0°-90°	3289.7	89.0
90°-120°	388.8	10.5
90°-150°	406.7	11.0
90°-180°	407.0	11.0
0°-180°	3696.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	930	930	930	930	930	
5°	933	930	921	926	923	89
15°	896	894	888	896	895	253
25°	825	825	826	839	839	380
35°	727	731	740	759	765	454
45°	604	614	638	672	688	466
55°	463	483	537	607	633	415
65°	311	351	457	544	575	308
75°	160	242	380	474	506	169
85°	38	154	298	392	425	42
90°	3	114	254	350	383	4
95°	3	77	210	303	338	2
105°	2	21	120	203	234	3
115°	2	2	49	112	138	2
125°	1	1	2	37	54	1
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°	0	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°	930.4	930.4	930.4	930.4	930.4
2.5°	936.7	933.3	923.2	928.5	925.6
5°	933.3	929.9	920.7	926.1	923.2
7.5°	927.0	924.6	915.4	921.2	919.3
10°	919.3	916.9	908.7	915.4	912.5
12.5°	908.7	906.3	899.5	906.3	905.3
15°	896.1	894.2	888.4	896.1	894.7
17.5°	881.2	879.7	874.9	884.6	882.6
20°	864.3	863.3	861.9	870.6	871.0
22.5°	845.9	845.9	845.0	854.6	855.1
25°	824.7	825.2	826.2	839.2	839.2
27.5°	803.0	804.4	806.9	819.4	822.3
30°	778.9	781.3	786.6	800.1	804.4
32.5°	753.3	757.2	762.9	779.8	784.2
35°	726.8	730.6	740.3	758.6	764.9
37.5°	698.3	702.6	715.2	735.9	744.1
40°	668.4	673.2	690.1	716.1	723.4
42.5°	638.0	644.7	665.5	693.5	704.6
45°	604.2	614.3	638.0	671.7	687.7
47.5°	570.4	582.5	611.9	653.4	672.7
50°	535.7	549.2	585.8	637.0	659.2
52.5°	500.9	515.9	560.3	621.6	645.7
55°	463.3	483.1	536.6	606.6	632.7
57.5°	428.5	449.8	515.4	591.6	620.1
60°	389.4	416.5	495.6	576.2	606.1
62.5°	350.8	383.2	476.8	560.3	589.7
65°	311.3	351.3	457.0	544.3	574.7
67.5°	272.2	319.0	438.7	527.9	559.3
70°	235.0	291.0	418.4	511.0	542.9
72.5°	195.9	266.4	399.6	493.2	525.0
75°	159.7	242.3	379.8	473.9	506.2
77.5°	123.1	219.6	360.5	454.6	487.9
80°	92.2	198.3	339.2	434.3	467.1
82.5°	62.7	177.1	318.5	413.6	447.8
85°	37.6	154.4	297.7	392.3	425.1
87.5°	16.9	134.6	275.1	370.6	404.9
90°	2.9	114.4	254.3	349.9	382.7
92.5°	3.4	96.0	233.1	327.7	360.5
95°	2.9	76.7	209.9	303.1	338.3
97.5°	2.9	60.3	185.3	278.9	311.3
100°	2.4	44.9	161.7	253.4	285.2
102.5°	2.4	31.8	140.4	228.3	260.1
105°	2.4	20.8	119.7	203.2	234.0
107.5°	2.4	11.6	99.4	179.0	210.4
110°	2.4	4.3	81.1	157.3	183.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	1.9	63.2	133.2	160.2
115°	1.9	1.9	48.7	111.5	138.0
117.5°	1.9	1.4	33.3	91.2	115.3
120°	1.9	1.4	20.8	72.9	93.6
122.5°	1.4	1.0	10.1	54.0	74.8
125°	1.4	1.0	2.4	37.2	54.5
127.5°	1.4	0.5	0.0	22.2	37.6
130°	1.0	0.5	0.0	10.6	22.2
132.5°	1.0	0.5	0.0	1.9	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°	0.0	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)