

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: P289753

Luminaire Tested: **4SSRK-TS-40-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289753  
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: 4SSRK-TS-40-L835-CD1-U  
Description: 4000 LUMEN, 4 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: 3720.7 lumens  
Efficiency: N/A  
Efficacy: 134.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct

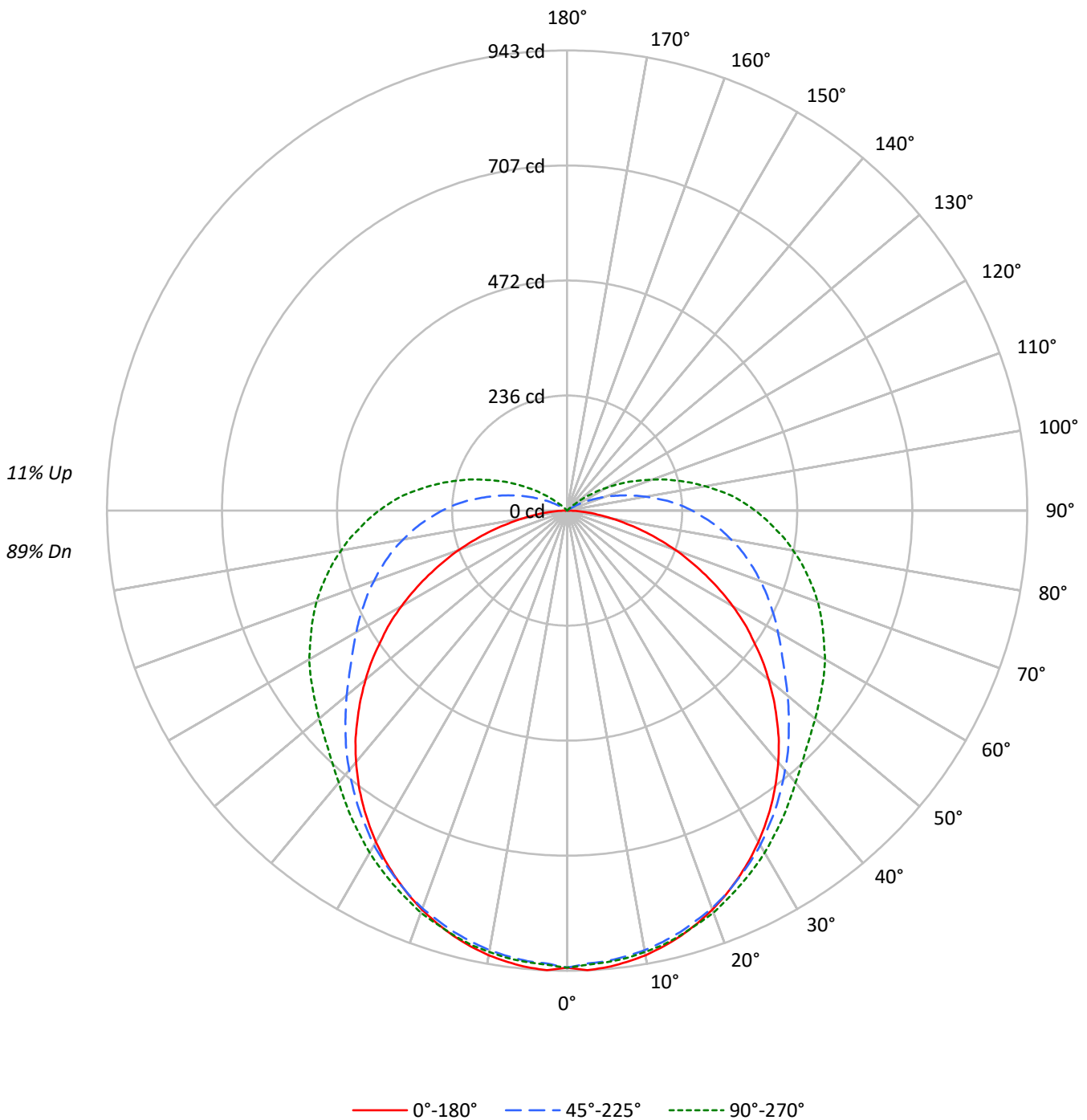
Input Watts (W): 27.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	60482	60482	60482
5°	60680	48066	44624
10°	60238	39886	35322
15°	59643	33863	29064
20°	58900	29224	24537
25°	58025	25404	21008
30°	57093	22282	18246
35°	56037	19574	15970
40°	54806	17233	14091
45°	53327	15204	12644
50°	51612	13448	11560
55°	49555	11968	10682
60°	47225	10830	9940
65°	43950	9861	9230
70°	40088	8983	8607
75°	34725	8177	7982
80°	27917	7381	7383
85°	19024	6597	6787



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.6	2.4
10°-20°	253.9	6.8
20°-30°	385.5	10.4
30°-40°	468.6	12.6
40°-50°	500.1	13.4
50°-60°	490.4	13.2
60°-70°	448.1	12.0
70°-80°	380.3	10.2
80°-90°	295.9	8.0
90°-100°	208.6	5.6
100°-110°	124.0	3.3
110°-120°	58.7	1.6
120°-130°	17.0	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°	727.9	19.6
0°-40°	1196.5	32.2
0°-60°	2187.0	58.8
0°-90°	3311.3	89.0
90°-120°	391.4	10.5
90°-150°	409.4	11.0
90°-180°	409.0	11.0
0°-180°	3720.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	936	936	936	936	936	
5°	939	936	927	932	929	89
15°	902	900	894	902	901	254
25°	830	831	832	845	845	383
35°	732	735	745	764	770	457
45°	608	618	642	676	692	469
55°	466	486	540	611	637	418
65°	313	354	460	548	578	310
75°	161	244	382	477	510	170
85°	38	155	300	395	428	42
90°	3	115	256	352	385	4
95°	3	77	211	305	340	2
105°	2	21	120	204	236	3
115°	2	2	49	112	139	2
125°	2	1	2	37	55	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°	936.5	936.5	936.5	936.5	936.5
2.5°	942.8	939.4	929.2	934.6	931.7
5°	939.4	936.0	926.8	932.1	929.2
7.5°	933.1	930.7	921.5	927.3	925.3
10°	925.3	922.9	914.7	921.5	918.5
12.5°	914.7	912.2	905.4	912.2	911.3
15°	902.0	900.1	894.3	902.0	900.6
17.5°	887.0	885.5	880.7	890.4	888.4
20°	870.0	869.0	867.5	876.3	876.8
22.5°	851.5	851.5	850.5	860.3	860.7
25°	830.1	830.6	831.6	844.7	844.7
27.5°	808.3	809.7	812.2	824.8	827.7
30°	784.0	786.4	791.8	805.4	809.7
32.5°	758.2	762.1	768.0	785.0	789.3
35°	731.5	735.4	745.1	763.6	769.9
37.5°	702.9	707.2	719.9	740.8	749.0
40°	672.8	677.6	694.6	720.8	728.1
42.5°	642.2	649.0	669.8	698.0	709.2
45°	608.2	618.4	642.2	676.2	692.2
47.5°	574.2	586.3	615.9	657.7	677.1
50°	539.2	552.8	589.7	641.2	663.5
52.5°	504.2	519.3	564.0	625.6	649.9
55°	466.3	486.2	540.1	610.6	636.8
57.5°	431.3	452.7	518.8	595.5	624.2
60°	392.0	419.2	498.9	580.0	610.1
62.5°	353.1	385.7	479.9	564.0	593.6
65°	313.3	353.6	460.0	547.9	578.5
67.5°	274.0	321.1	441.5	531.4	563.0
70°	236.6	292.9	421.1	514.4	546.5
72.5°	197.2	268.1	402.2	496.4	528.5
75°	160.8	243.8	382.3	477.0	509.5
77.5°	123.9	221.0	362.9	457.6	491.1
80°	92.8	199.6	341.5	437.2	470.2
82.5°	63.1	178.3	320.6	416.3	450.8
85°	37.9	155.4	299.7	394.9	427.9
87.5°	17.0	135.5	276.9	373.1	407.5
90°	2.9	115.1	256.0	352.2	385.2
92.5°	3.4	96.7	234.6	329.8	362.9
95°	2.9	77.2	211.3	305.0	340.5
97.5°	2.9	60.7	186.5	280.8	313.3
100°	2.4	45.2	162.7	255.0	287.1
102.5°	2.4	32.1	141.4	229.8	261.8
105°	2.4	20.9	120.5	204.5	235.6
107.5°	2.4	11.7	100.1	180.2	211.8
110°	2.4	4.4	81.6	158.4	184.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	1.9	63.6	134.1	161.3
115°	1.9	1.9	49.1	112.2	138.9
117.5°	1.9	1.5	33.5	91.8	116.1
120°	1.9	1.5	20.9	73.3	94.2
122.5°	1.5	1.0	10.2	54.4	75.3
125°	1.5	1.0	2.4	37.4	54.9
127.5°	1.5	0.5	0.0	22.3	37.9
130°	1.0	0.5	0.0	10.7	22.3
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)