

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: P289754

Luminaire Tested: **4SSRK-TS-40-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289754  
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-L840-CD1-U  
Description: 4000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 80 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3783.8 lumens  
Efficiency: N/A  
Efficacy: 136.6 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

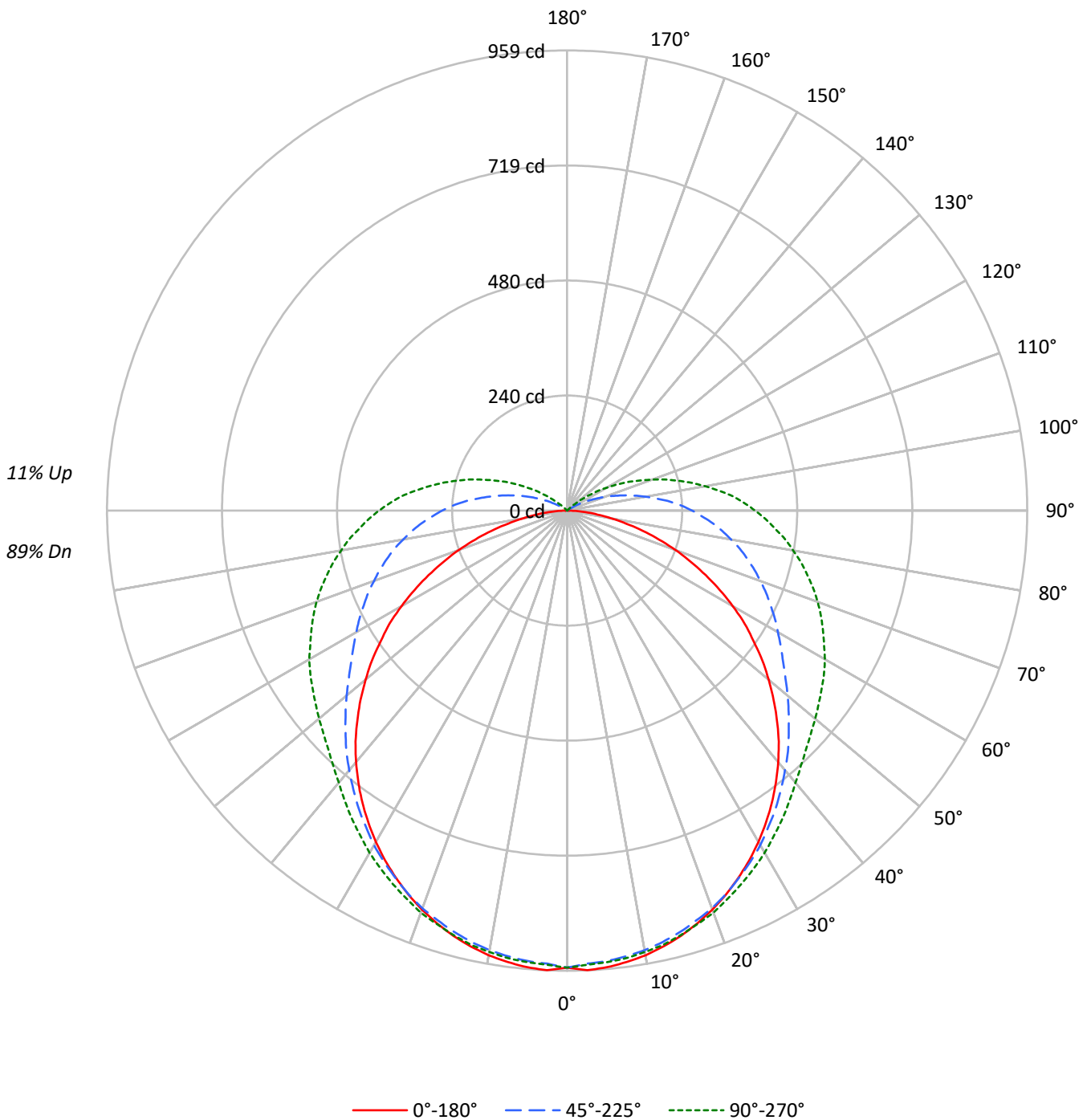
Input Watts (W): 27.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	61509	61509	61509
5°	61713	48880	45382
10°	61260	40562	35922
15°	60655	34435	29555
20°	59895	29722	24951
25°	59011	25835	21364
30°	58061	22659	18557
35°	56987	19908	16242
40°	55734	17526	14331
45°	54231	15460	12858
50°	52483	13676	11756
55°	50395	12172	10863
60°	48020	11013	10108
65°	44694	10028	9386
70°	40765	9136	8752
75°	35308	8316	8118
80°	28398	7506	7509
85°	19325	6709	6903



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.1	2.4
10°-20°	258.2	6.8
20°-30°	392.0	10.4
30°-40°	476.5	12.6
40°-50°	508.6	13.4
50°-60°	498.8	13.2
60°-70°	455.7	12.0
70°-80°	386.7	10.2
80°-90°	300.9	8.0
90°-100°	212.2	5.6
100°-110°	126.1	3.3
110°-120°	59.7	1.6
120°-130°	17.3	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°	740.3	19.6
0°-40°	1216.8	32.2
0°-60°	2224.1	58.8
0°-90°	3367.5	89.0
90°-120°	398.0	10.5
90°-150°	416.3	11.0
90°-180°	416.0	11.0
0°-180°	3783.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	955	952	942	948	945	91
15°	917	915	909	917	916	259
25°	844	845	846	859	859	389
35°	744	748	758	776	783	465
45°	618	629	653	688	704	477
55°	474	494	549	621	648	425
65°	319	360	468	557	588	316
75°	164	248	389	485	518	173
85°	38	158	305	402	435	43
90°	3	117	260	358	392	4
95°	3	78	215	310	346	2
105°	2	21	122	208	240	3
115°	2	2	50	114	141	2
125°	2	1	2	38	56	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°	952.4	952.4	952.4	952.4	952.4
2.5°	958.8	955.4	945.0	950.4	947.5
5°	955.4	951.9	942.5	948.0	945.0
7.5°	948.9	946.5	937.1	943.0	941.0
10°	941.0	938.6	930.2	937.1	934.1
12.5°	930.2	927.7	920.8	927.7	926.7
15°	917.3	915.4	909.4	917.3	915.8
17.5°	902.0	900.5	895.6	905.5	903.5
20°	884.7	883.7	882.3	891.1	891.6
22.5°	866.0	866.0	865.0	874.8	875.3
25°	844.2	844.7	845.7	859.0	859.0
27.5°	822.0	823.5	825.9	838.8	841.7
30°	797.3	799.8	805.2	819.0	823.5
32.5°	771.1	775.1	781.0	798.3	802.7
35°	743.9	747.9	757.8	776.5	783.0
37.5°	714.8	719.2	732.1	753.3	761.7
40°	684.2	689.1	706.4	733.1	740.5
42.5°	653.0	660.0	681.2	709.9	721.2
45°	618.5	628.8	653.0	687.6	703.9
47.5°	583.9	596.2	626.4	668.9	688.6
50°	548.3	562.2	599.7	652.1	674.8
52.5°	512.8	528.1	573.5	636.3	660.9
55°	474.2	494.5	549.3	620.9	647.6
57.5°	438.7	460.4	527.6	605.6	634.8
60°	398.6	426.3	507.3	589.8	620.4
62.5°	359.1	392.2	488.1	573.5	603.6
65°	318.6	359.6	467.8	557.2	588.3
67.5°	278.6	326.5	449.0	540.4	572.5
70°	240.6	297.9	428.3	523.1	555.7
72.5°	200.6	272.7	409.0	504.9	537.5
75°	163.5	248.0	388.8	485.1	518.2
77.5°	126.0	224.8	369.0	465.3	499.4
80°	94.4	203.0	347.3	444.6	478.2
82.5°	64.2	181.3	326.0	423.3	458.4
85°	38.5	158.1	304.8	401.6	435.2
87.5°	17.3	137.8	281.6	379.4	414.5
90°	3.0	117.1	260.3	358.1	391.7
92.5°	3.5	98.3	238.6	335.4	369.0
95°	3.0	78.5	214.9	310.2	346.3
97.5°	3.0	61.7	189.7	285.5	318.6
100°	2.5	45.9	165.5	259.3	291.9
102.5°	2.5	32.6	143.7	233.7	266.3
105°	2.5	21.2	122.5	208.0	239.6
107.5°	2.5	11.9	101.8	183.3	215.4
110°	2.5	4.4	83.0	161.0	187.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.0	2.0	64.7	136.3	164.0
115°	2.0	2.0	49.9	114.1	141.3
117.5°	2.0	1.5	34.1	93.4	118.1
120°	2.0	1.5	21.2	74.6	95.8
122.5°	1.5	1.0	10.4	55.3	76.6
125°	1.5	1.0	2.5	38.0	55.8
127.5°	1.5	0.5	0.0	22.7	38.5
130°	1.0	0.5	0.0	10.9	22.7
132.5°	1.0	0.5	0.0	2.0	9.9
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°	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)