

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P544612

Luminaire Tested: **4SLES-2-T8-1G-B840-U**

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-256-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/2/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SLES-2-T8-1G-B840-U
Description: 80CRI 4000K TLED Strip
Light Source: MainsFit Glass TLED - (2) 4FT 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3427.3 lumens
Efficiency: N/A
Efficacy: 173.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.36 / 1.44
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

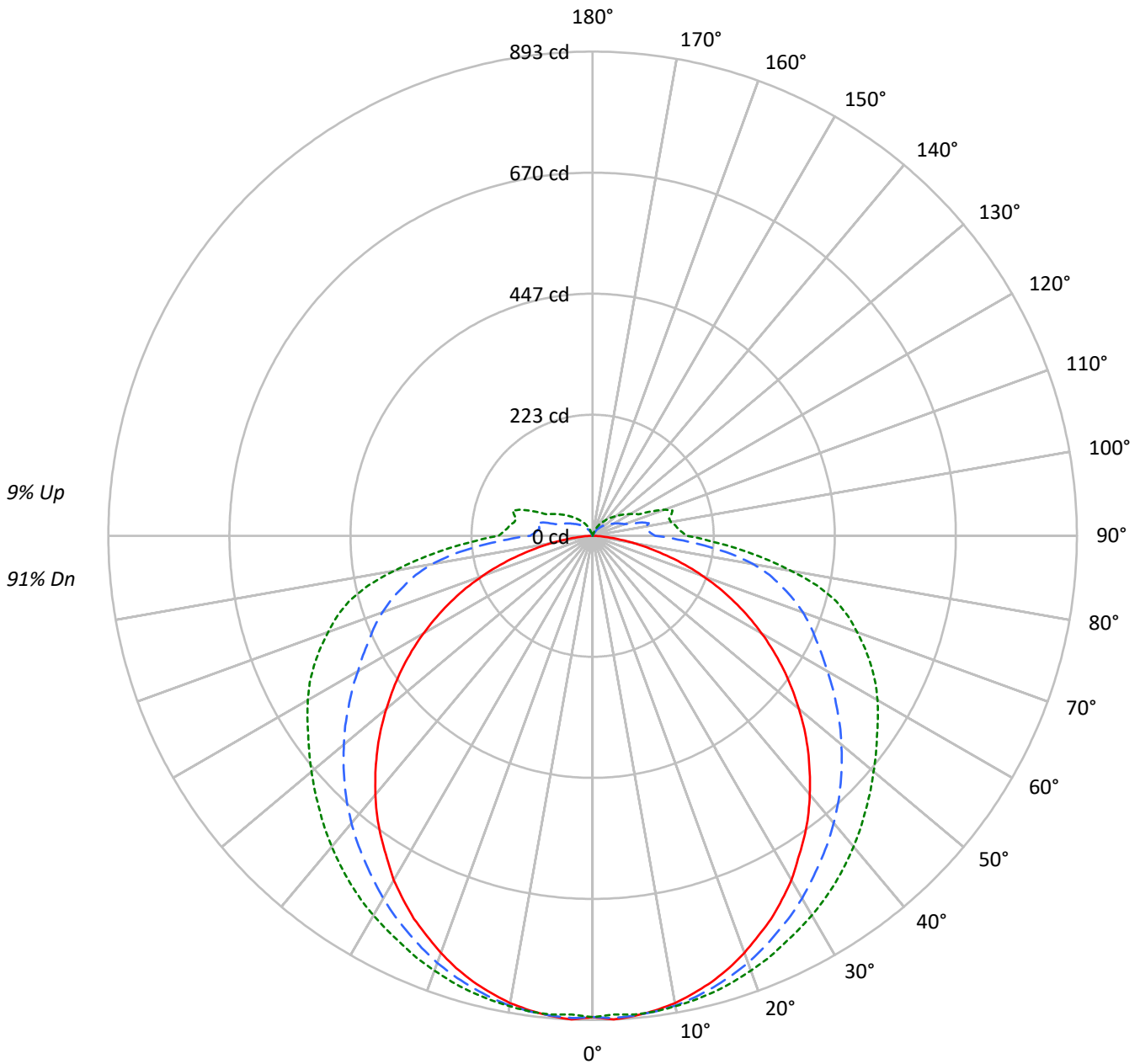
Input Watts (W): 19.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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									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	100	100	100	94	94	94	91																			
1	104	98	93	89	101	95	91	86	89	86	82	84	81	78	79	76	74	71																			
2	94	84	77	70	90	82	75	69	77	71	66	72	67	63	68	64	60	57																			
3	85	73	64	57	81	71	63	56	67	60	54	63	57	52	59	54	50	47																			
4	77	64	55	48	74	62	54	47	59	51	45	55	49	44	52	47	42	39																			
5	71	57	48	40	68	55	47	40	52	45	39	49	43	37	47	41	36	34																			
6	65	51	42	35	63	50	41	35	47	39	33	44	38	32	42	36	32	29																			
7	60	46	37	31	58	45	36	30	43	35	29	40	34	29	38	32	28	26																			
8	56	42	33	27	54	41	33	27	39	31	26	37	30	25	35	29	25	23																			
9	52	39	30	24	50	38	30	24	36	29	23	34	28	23	32	27	22	20																			
10	49	35	27	22	47	35	27	22	33	26	21	31	25	21	30	24	20	18																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4778	4778	4778
5°	4803	4800	4789
10°	4783	4808	4815
15°	4744	4803	4850
20°	4687	4801	4888
25°	4629	4789	4938
30°	4557	4799	5024
35°	4466	4813	5130
40°	4377	4860	5258
45°	4275	4923	5425
50°	4155	5012	5664
55°	4032	5152	6007
60°	3872	5378	6528
65°	3673	5791	7219
70°	3386	6491	8164
75°	2936	7507	9661
80°	2352	9329	11517
85°	1426	12795	16426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	2.5
10°-20°	242.7	7.1
20°-30°	371.2	10.8
30°-40°	457.4	13.3
40°-50°	494.9	14.4
50°-60°	485.8	14.2
60°-70°	438.3	12.8
70°-80°	351.6	10.3
80°-90°	200.8	5.9
90°-100°	102.2	3.0
100°-110°	85.5	2.5
110°-120°	51.8	1.5
120°-130°	32.2	0.9
130°-140°	18.1	0.5
140°-150°	8.6	0.3
150°-160°	2.0	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	698.1	20.4
0°-40°	1155.5	33.7
0°-60°	2136.2	62.3
0°-90°	3126.9	91.2
90°-120°	239.4	7.0
90°-150°	298.3	8.7
90°-180°	300.0	8.8
0°-180°	3427.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	888	888	888	888	888	
5°	889	882	888	884	886	84
15°	851	850	862	865	870	240
25°	780	785	806	821	832	359
35°	680	695	733	763	781	425
45°	562	589	647	690	713	433
55°	430	474	549	610	640	384
65°	288	352	455	536	567	285
75°	141	238	361	437	465	151
85°	23	133	207	250	266	30
90°	0	55	116	158	174	1
95°	0	48	103	143	158	0
105°	0	26	95	141	150	0
115°	0	17	54	82	94	0
125°	0	12	38	59	68	0
135°	0	2	25	41	47	0
145°	0	0	14	26	30	0
155°	1	0	0	9	14	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°	887.7	887.7	887.7	887.7	887.7
2.5°	893.0	885.1	890.3	885.7	883.7
5°	889.0	882.4	888.4	883.7	886.4
7.5°	883.1	877.8	885.1	881.8	885.1
10°	875.2	870.5	879.8	877.1	881.1
12.5°	863.9	861.3	871.9	871.9	876.5
15°	851.4	850.1	862.0	865.3	870.5
17.5°	836.2	836.9	850.7	856.7	862.6
20°	818.4	821.7	838.2	844.8	853.4
22.5°	798.6	804.5	823.0	832.3	844.1
25°	779.5	785.4	806.5	821.0	831.6
27.5°	756.4	764.9	790.7	808.5	820.4
30°	733.3	742.5	772.2	794.6	808.5
32.5°	705.5	719.4	752.4	778.8	795.3
35°	679.8	695.0	732.6	763.0	780.8
37.5°	652.7	669.9	712.8	746.5	764.9
40°	623.0	643.5	691.7	728.0	748.4
42.5°	592.7	616.4	669.9	708.8	731.3
45°	561.7	588.7	646.8	689.7	712.8
47.5°	530.0	561.7	623.0	670.6	695.0
50°	496.3	533.3	598.6	650.1	676.5
52.5°	463.3	504.2	574.9	630.3	658.7
55°	429.7	473.9	549.1	610.5	640.2
57.5°	395.3	444.2	525.4	591.4	623.7
60°	359.7	413.8	499.6	573.5	606.5
62.5°	324.7	383.5	477.2	556.4	588.1
65°	288.4	352.4	454.7	535.9	566.9
67.5°	252.8	320.8	434.9	513.5	543.8
70°	215.2	291.1	412.5	488.4	518.8
72.5°	178.9	262.7	388.1	464.0	494.3
75°	141.2	237.6	361.0	436.9	464.6
77.5°	107.6	217.8	334.0	401.3	423.7
80°	75.9	194.0	301.0	353.8	371.6
82.5°	46.9	166.3	257.4	302.3	318.8
85°	23.1	133.3	207.2	250.1	266.0
87.5°	6.6	92.4	157.1	198.7	215.8
90°	0.0	55.4	115.5	157.7	173.6
92.5°	0.0	48.8	107.6	148.5	164.3
95°	0.0	47.5	103.0	142.6	157.7
97.5°	0.0	49.5	99.0	136.6	153.1
100°	0.0	33.7	100.3	132.0	146.5
102.5°	0.0	29.7	106.3	133.3	144.5
105°	0.0	26.4	95.0	140.6	149.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	19.1	58.1	91.1	117.5
115°	0.0	17.2	53.5	82.5	93.7
117.5°	0.0	15.8	48.8	75.9	87.1
120°	0.0	14.5	44.9	70.0	79.9
122.5°	0.0	13.2	40.9	64.7	73.9
125°	0.0	11.9	37.6	59.4	68.0
127.5°	0.0	10.6	34.3	54.1	62.0
130°	0.0	8.6	31.7	49.5	56.8
132.5°	0.0	5.3	28.4	44.9	51.5
135°	0.0	2.0	25.1	40.9	46.9
137.5°	0.0	0.7	22.4	37.0	42.2
140°	0.0	0.0	19.1	33.0	38.3
142.5°	0.0	0.0	16.5	29.7	33.7
145°	0.0	0.0	13.9	25.7	29.7
147.5°	0.7	0.0	9.9	21.8	26.4
150°	0.7	0.0	5.3	18.5	22.4
152.5°	0.7	0.0	1.3	14.5	19.1
155°	0.7	0.0	0.0	8.6	14.5
157.5°	0.7	0.0	0.0	2.0	7.9
160°	0.7	0.0	0.0	0.0	1.3
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



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— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	0.0	23.1	71.3	136.0	154.4
110°	0.0	21.1	62.7	118.1	140.6



(END OF REPORT)