

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: P544620

Luminaire Tested: **4SLES-2-T8-2G-B850-U**

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544620
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-T8-2G-B850-U
Description: 80CRI 5000K TLED Strip
Light Source: MainsFit Glass TLED - (2) 4FT 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3738.9 lumens
Efficiency: N/A
Efficacy: 155.8 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

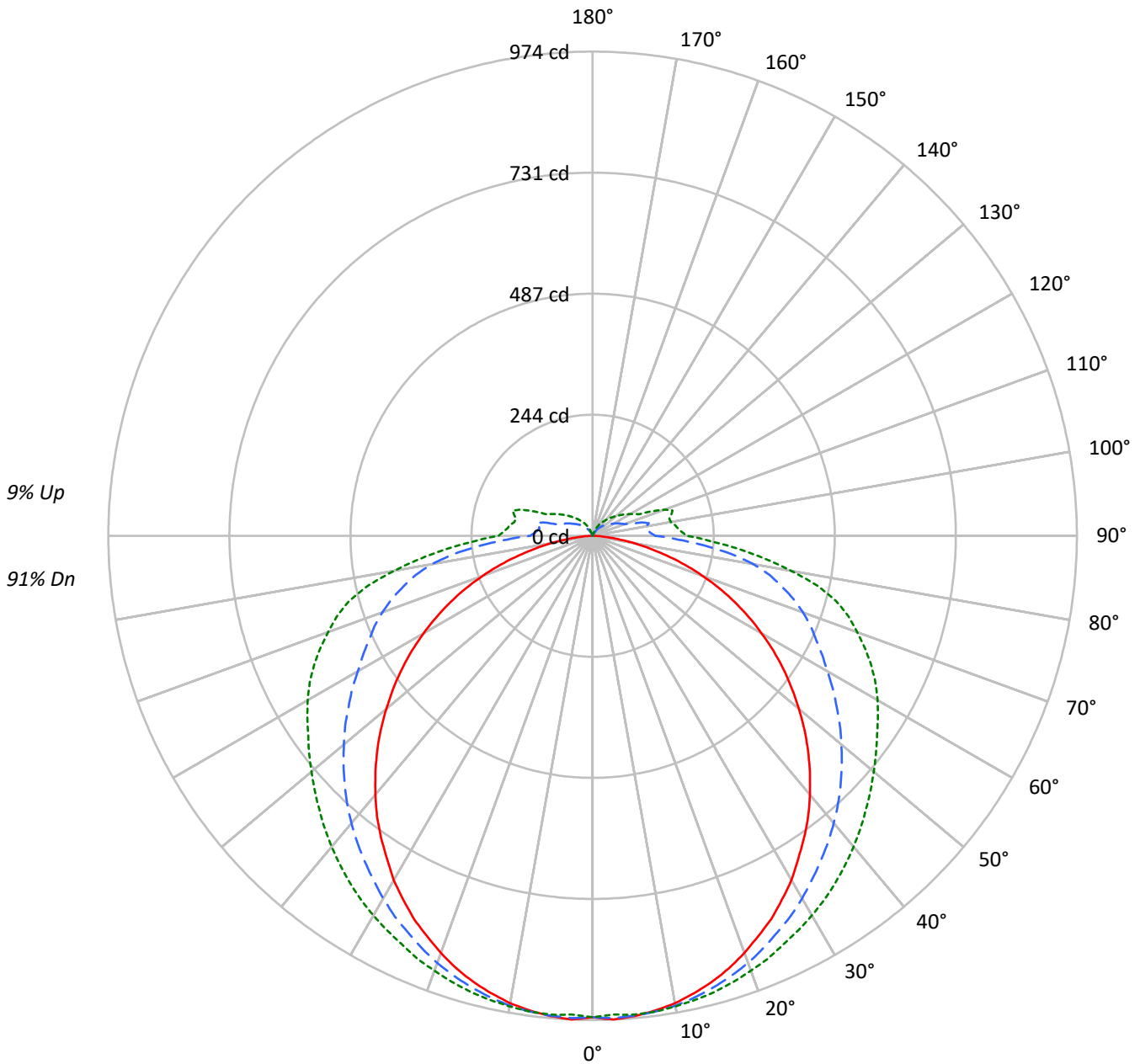
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P544620

CATALOG NUMBER: 4SLES-2-T8-2G-B850-U

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°	5212	5212	5212
5°	5239	5236	5224
10°	5217	5245	5253
15°	5175	5239	5292
20°	5113	5237	5332
25°	5049	5225	5387
30°	4971	5235	5481
35°	4872	5251	5596
40°	4775	5302	5736
45°	4663	5370	5918
50°	4533	5467	6179
55°	4398	5621	6553
60°	4224	5866	7122
65°	4006	6318	7876
70°	3693	7081	8905
75°	3204	8189	10541
80°	2566	10175	12565
85°	1556	13962	17920



TEST NUMBER: P544620

CATALOG NUMBER: 4SLES-2-T8-2G-B850-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.9	2.5
10°-20°	264.7	7.1
20°-30°	405.0	10.8
30°-40°	498.9	13.3
40°-50°	539.9	14.4
50°-60°	529.9	14.2
60°-70°	478.2	12.8
70°-80°	383.5	10.3
80°-90°	219.0	5.9
90°-100°	111.5	3.0
100°-110°	93.2	2.5
110°-120°	56.5	1.5
120°-130°	35.1	0.9
130°-140°	19.8	0.5
140°-150°	9.4	0.3
150°-160°	2.2	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	761.6	20.4
0°-40°	1260.5	33.7
0°-60°	2330.4	62.3
0°-90°	3411.2	91.2
90°-120°	261.2	7.0
90°-150°	325.4	8.7
90°-180°	328.0	8.8
0°-180°	3738.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	968	968	968	968	968	
5°	970	963	969	964	967	92
15°	929	927	940	944	950	262
25°	850	857	880	896	907	391
35°	742	758	799	832	852	464
45°	613	642	706	752	778	473
55°	469	517	599	666	698	419
65°	315	384	496	585	618	311
75°	154	259	394	477	507	165
85°	25	145	226	273	290	33
90°	0	60	126	172	189	1
95°	0	52	112	156	172	0
105°	0	29	104	153	163	0
115°	0	19	58	90	102	0
125°	0	13	41	65	74	0
135°	0	2	27	45	51	0
145°	0	0	15	28	32	0
155°	1	0	0	9	16	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P544620

CATALOG NUMBER: 4SLES-2-T8-2G-B850-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	968.4	968.4	968.4	968.4	968.4
2.5°	974.2	965.5	971.3	966.2	964.1
5°	969.8	962.6	969.1	964.1	967.0
7.5°	963.4	957.6	965.5	961.9	965.5
10°	954.7	949.7	959.8	956.9	961.2
12.5°	942.5	939.6	951.1	951.1	956.2
15°	928.8	927.4	940.3	943.9	949.7
17.5°	912.2	913.0	928.1	934.6	941.0
20°	892.8	896.4	914.4	921.6	931.0
22.5°	871.2	877.7	897.8	907.9	920.9
25°	850.3	856.8	879.8	895.7	907.2
27.5°	825.1	834.5	862.6	882.0	895.0
30°	799.9	810.0	842.4	866.9	882.0
32.5°	769.7	784.8	820.8	849.6	867.6
35°	741.6	758.2	799.2	832.3	851.8
37.5°	712.1	730.8	777.6	814.3	834.5
40°	679.7	702.0	754.6	794.2	816.5
42.5°	646.6	672.5	730.8	773.3	797.8
45°	612.7	642.2	705.6	752.4	777.6
47.5°	578.2	612.7	679.7	731.5	758.2
50°	541.4	581.8	653.0	709.2	738.0
52.5°	505.4	550.1	627.1	687.6	718.6
55°	468.7	517.0	599.0	666.0	698.4
57.5°	431.3	484.6	573.1	645.1	680.4
60°	392.4	451.4	545.0	625.7	661.7
62.5°	354.2	418.3	520.6	607.0	641.5
65°	314.6	384.5	496.1	584.6	618.5
67.5°	275.8	349.9	474.5	560.2	593.3
70°	234.7	317.5	450.0	532.8	565.9
72.5°	195.1	286.6	423.4	506.2	539.3
75°	154.1	259.2	393.8	476.6	506.9
77.5°	117.4	237.6	364.3	437.8	462.2
80°	82.8	211.7	328.3	385.9	405.4
82.5°	51.1	181.4	280.8	329.8	347.8
85°	25.2	145.4	226.1	272.9	290.2
87.5°	7.2	100.8	171.4	216.7	235.4
90°	0.0	60.5	126.0	172.1	189.4
92.5°	0.0	53.3	117.4	162.0	179.3
95°	0.0	51.8	112.3	155.5	172.1
97.5°	0.0	54.0	108.0	149.0	167.0
100°	0.0	36.7	109.4	144.0	159.8
102.5°	0.0	32.4	115.9	145.4	157.7
105°	0.0	28.8	103.7	153.4	163.4



TEST NUMBER: P544620

CATALOG NUMBER: 4SLES-2-T8-2G-B850-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	20.9	63.4	99.4	128.2
115°	0.0	18.7	58.3	90.0	102.2
117.5°	0.0	17.3	53.3	82.8	95.0
120°	0.0	15.8	49.0	76.3	87.1
122.5°	0.0	14.4	44.6	70.6	80.6
125°	0.0	13.0	41.0	64.8	74.2
127.5°	0.0	11.5	37.4	59.0	67.7
130°	0.0	9.4	34.6	54.0	61.9
132.5°	0.0	5.8	31.0	49.0	56.2
135°	0.0	2.2	27.4	44.6	51.1
137.5°	0.0	0.7	24.5	40.3	46.1
140°	0.0	0.0	20.9	36.0	41.8
142.5°	0.0	0.0	18.0	32.4	36.7
145°	0.0	0.0	15.1	28.1	32.4
147.5°	0.7	0.0	10.8	23.8	28.8
150°	0.7	0.0	5.8	20.2	24.5
152.5°	0.7	0.0	1.4	15.8	20.9
155°	0.7	0.0	0.0	9.4	15.8
157.5°	0.7	0.0	0.0	2.2	8.6
160°	0.7	0.0	0.0	0.0	1.4
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



Report Generated By 670245859 / DESKTOP-HRDQ47P





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







107.5°	0.0	25.2	77.8	148.3	168.5
110°	0.0	23.0	68.4	128.9	153.4



(END OF REPORT)