

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: P544624

Luminaire Tested: **4SLES-2-T8-3G-B840-U**

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544624
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-T8-3G-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: 4361.9 lumens
Efficiency: N/A
Efficacy: 150.4 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

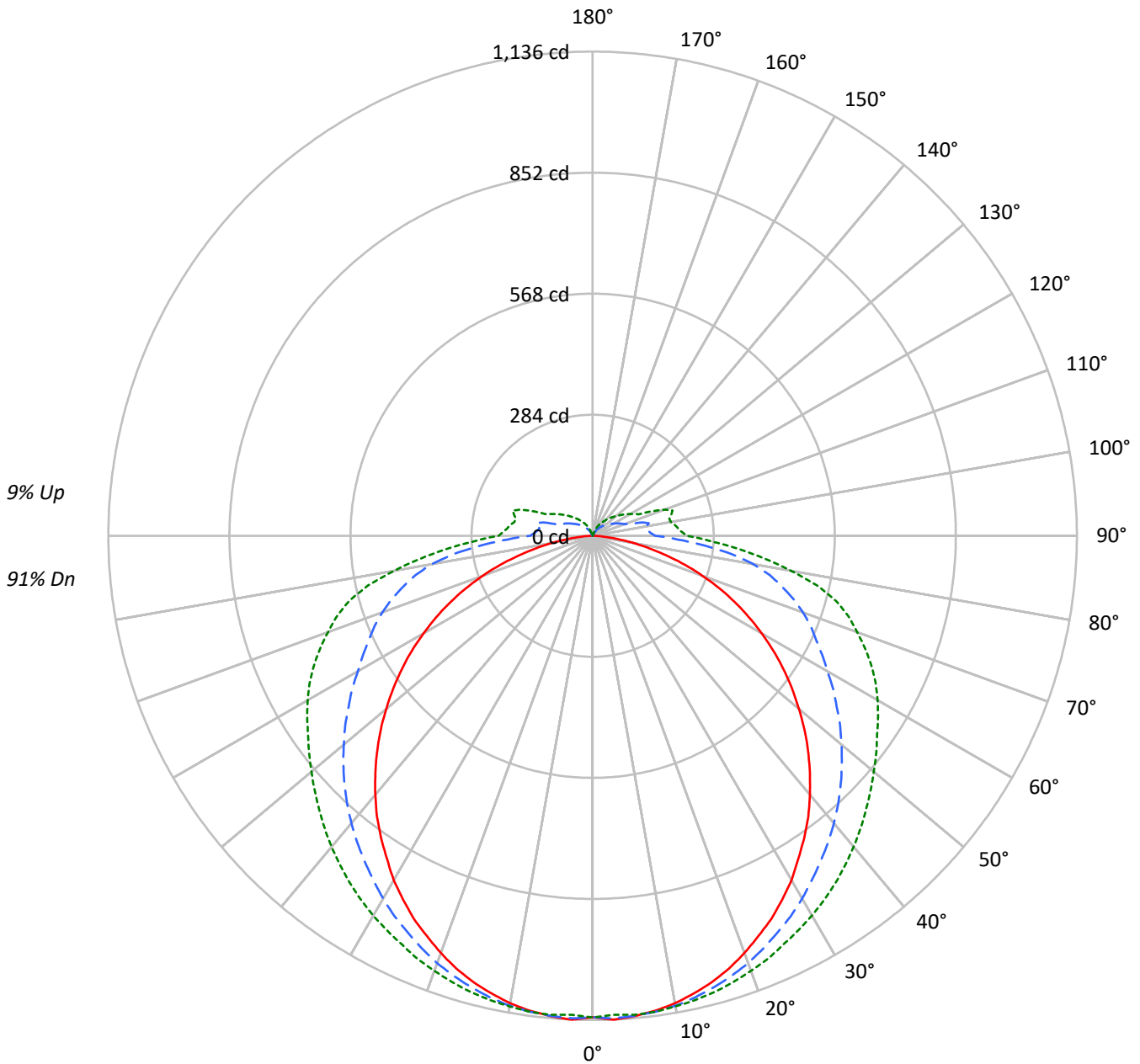
Input Watts (W): 29
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6081	6081	6081
5°	6113	6108	6095
10°	6087	6119	6128
15°	6038	6112	6174
20°	5966	6110	6220
25°	5891	6096	6285
30°	5799	6108	6395
35°	5684	6126	6529
40°	5571	6185	6693
45°	5441	6266	6905
50°	5289	6379	7209
55°	5131	6558	7645
60°	4928	6845	8310
65°	4675	7371	9189
70°	4308	8261	10389
75°	3739	9555	12298
80°	2994	11870	14657
85°	1815	16290	20903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	2.5
10°-20°	308.8	7.1
20°-30°	472.5	10.8
30°-40°	582.1	13.3
40°-50°	629.9	14.4
50°-60°	618.3	14.2
60°-70°	557.9	12.8
70°-80°	447.5	10.3
80°-90°	255.5	5.9
90°-100°	130.0	3.0
100°-110°	108.8	2.5
110°-120°	65.9	1.5
120°-130°	41.0	0.9
130°-140°	23.0	0.5
140°-150°	10.9	0.3
150°-160°	2.6	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	888.5	20.4
0°-40°	1470.6	33.7
0°-60°	2718.8	62.3
0°-90°	3979.7	91.2
90°-120°	304.7	7.0
90°-150°	379.7	8.7
90°-180°	382.0	8.8
0°-180°	4361.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1130	1130	1130	1130	1130	
5°	1132	1123	1131	1125	1128	107
15°	1084	1082	1097	1101	1108	305
25°	992	1000	1026	1045	1058	457
35°	865	884	932	971	994	541
45°	715	749	823	878	907	551
55°	547	603	699	777	815	488
65°	367	449	579	682	722	363
75°	180	302	460	556	591	192
85°	29	170	264	318	338	38
90°	0	71	147	201	221	1
95°	0	60	131	181	201	0
105°	0	34	121	179	191	0
115°	0	22	68	105	119	0
125°	0	15	48	76	86	0
135°	0	2	32	52	60	0
145°	0	0	18	33	38	0
155°	1	0	0	11	18	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°	1129.8	1129.8	1129.8	1129.8	1129.8
2.5°	1136.5	1126.4	1133.2	1127.3	1124.8
5°	1131.5	1123.1	1130.6	1124.8	1128.1
7.5°	1123.9	1117.2	1126.4	1122.2	1126.4
10°	1113.8	1108.0	1119.7	1116.4	1121.4
12.5°	1099.6	1096.2	1109.6	1109.6	1115.5
15°	1083.6	1081.9	1097.0	1101.2	1108.0
17.5°	1064.3	1065.1	1082.8	1090.3	1097.9
20°	1041.6	1045.8	1066.8	1075.2	1086.1
22.5°	1016.4	1024.0	1047.5	1059.2	1074.4
25°	992.0	999.6	1026.5	1045.0	1058.4
27.5°	962.6	973.6	1006.3	1029.0	1044.1
30°	933.2	945.0	982.8	1011.4	1029.0
32.5°	898.0	915.6	957.6	991.2	1012.2
35°	865.2	884.5	932.4	971.0	993.7
37.5°	830.8	852.6	907.2	950.0	973.6
40°	793.0	819.0	880.3	926.5	952.6
42.5°	754.3	784.6	852.6	902.2	930.7
45°	714.8	749.3	823.2	877.8	907.2
47.5°	674.5	714.8	793.0	853.4	884.5
50°	631.7	678.7	761.9	827.4	861.0
52.5°	589.7	641.8	731.6	802.2	838.3
55°	546.8	603.1	698.9	777.0	814.8
57.5°	503.2	565.3	668.6	752.6	793.8
60°	457.8	526.7	635.9	730.0	772.0
62.5°	413.3	488.0	607.3	708.1	748.4
65°	367.1	448.6	578.8	682.1	721.6
67.5°	321.7	408.2	553.6	653.5	692.2
70°	273.8	370.4	525.0	621.6	660.2
72.5°	227.6	334.3	493.9	590.5	629.2
75°	179.8	302.4	459.5	556.1	591.4
77.5°	136.9	277.2	425.0	510.7	539.3
80°	96.6	247.0	383.0	450.2	472.9
82.5°	59.6	211.7	327.6	384.7	405.7
85°	29.4	169.7	263.8	318.4	338.5
87.5°	8.4	117.6	199.9	252.8	274.7
90°	0.0	70.6	147.0	200.8	220.9
92.5°	0.0	62.2	136.9	189.0	209.2
95°	0.0	60.5	131.0	181.4	200.8
97.5°	0.0	63.0	126.0	173.9	194.9
100°	0.0	42.8	127.7	168.0	186.5
102.5°	0.0	37.8	135.2	169.7	184.0
105°	0.0	33.6	121.0	178.9	190.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	24.4	73.9	115.9	149.5
115°	0.0	21.8	68.0	105.0	119.3
117.5°	0.0	20.2	62.2	96.6	110.9
120°	0.0	18.5	57.1	89.0	101.6
122.5°	0.0	16.8	52.1	82.3	94.1
125°	0.0	15.1	47.9	75.6	86.5
127.5°	0.0	13.4	43.7	68.9	79.0
130°	0.0	10.9	40.3	63.0	72.2
132.5°	0.0	6.7	36.1	57.1	65.5
135°	0.0	2.5	31.9	52.1	59.6
137.5°	0.0	0.8	28.6	47.0	53.8
140°	0.0	0.0	24.4	42.0	48.7
142.5°	0.0	0.0	21.0	37.8	42.8
145°	0.0	0.0	17.6	32.8	37.8
147.5°	0.8	0.0	12.6	27.7	33.6
150°	0.8	0.0	6.7	23.5	28.6
152.5°	0.8	0.0	1.7	18.5	24.4
155°	0.8	0.0	0.0	10.9	18.5
157.5°	0.8	0.0	0.0	2.5	10.1
160°	0.8	0.0	0.0	0.0	1.7
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	29.4	90.7	173.0	196.6
110°	0.0	26.9	79.8	150.4	178.9



(END OF REPORT)