

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: P544617

Luminaire Tested: **4SLES-2-T8-2G-B840-U-ICF-4FT-REFL**

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-256-3)
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-B840-U-ICF-4FT-REFL
Description: 80CRI 4000K TLED with Reflector
Light Source: MainsFit Glass TLED - (2) 4FT 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3507.5 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.35 / 1.44
Luminous Opening: Rectangular (W 0.92' x L: 4' x H: 0')
CIE Type: Direct

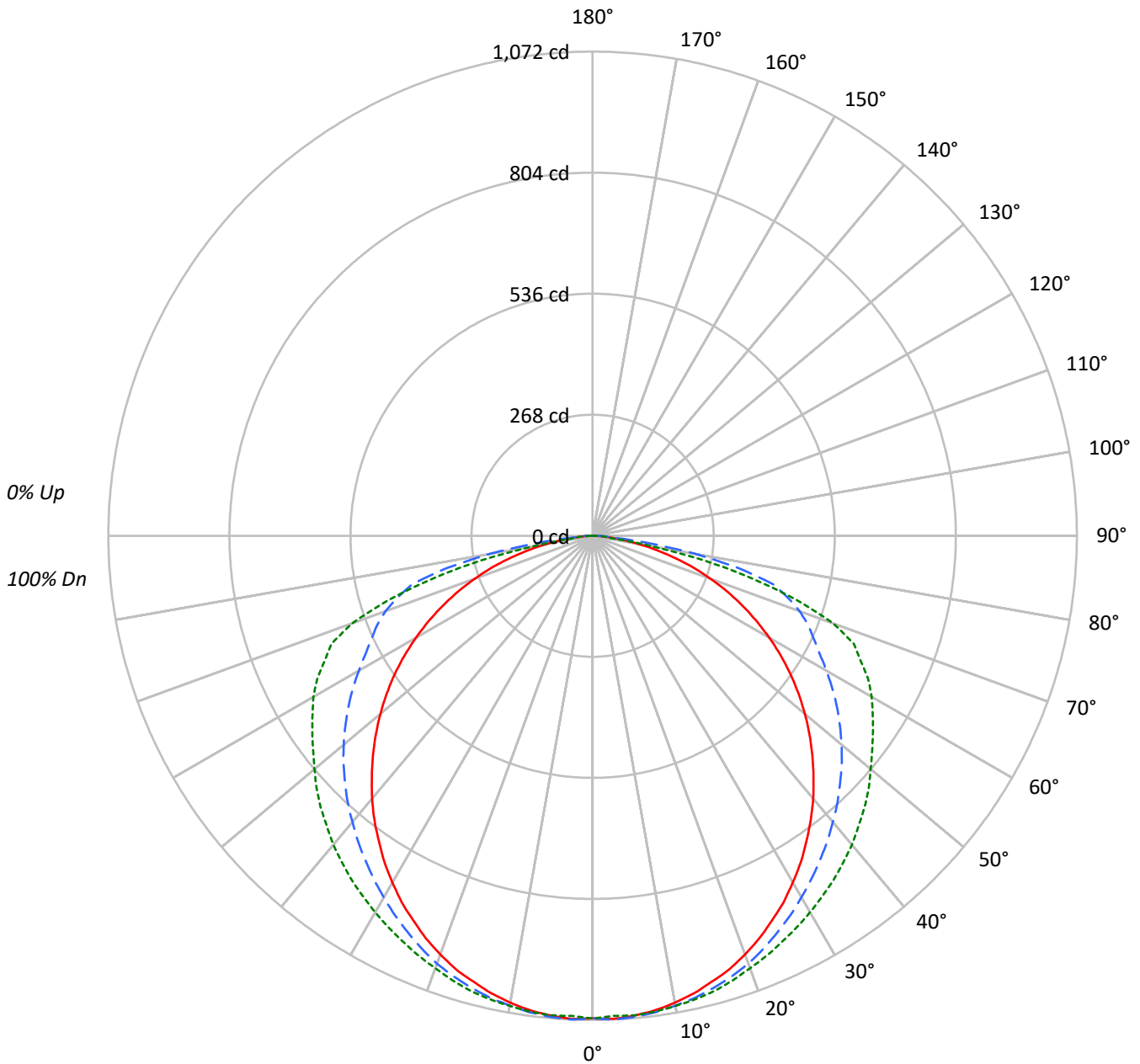
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82								
2	97	88	81	75	94	86	79	74	83	77	72	79	75	70	76	72	69	66								
3	88	77	68	61	85	75	67	60	72	65	59	69	63	58	67	61	57	55								
4	80	67	58	51	78	66	57	51	63	56	50	61	54	49	59	53	48	46								
5	73	60	50	43	71	59	50	43	57	49	43	55	48	42	53	47	42	39								
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	48	41	36	34								
7	63	49	39	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30								
8	58	44	35	29	57	43	35	29	42	34	29	41	34	29	40	33	29	27								
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24								
10	51	37	29	24	50	37	29	24	36	28	24	35	28	23	34	28	23	21								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3137	3137	3137
5°	3142	3151	3140
10°	3130	3149	3151
15°	3105	3149	3171
20°	3082	3149	3183
25°	3044	3137	3214
30°	3005	3134	3263
35°	2957	3143	3334
40°	2911	3171	3422
45°	2855	3216	3533
50°	2802	3285	3670
55°	2738	3379	3877
60°	2650	3509	4189
65°	2541	3751	4547
70°	2373	4184	4858
75°	2108	4680	4157
80°	1728	3872	2179
85°	1091	1334	1068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	2.9
10°-20°	291.2	8.3
20°-30°	444.9	12.7
30°-40°	548.2	15.6
40°-50°	594.2	16.9
50°-60°	582.4	16.6
60°-70°	520.4	14.8
70°-80°	350.1	10.0
80°-90°	74.9	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	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°	837.3	23.9
0°-40°	1385.5	39.5
0°-60°	2562.1	73.0
0°-90°	3507.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3507.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1068	1068	1068	1068	1068	
5°	1066	1053	1069	1069	1066	101
15°	1022	1013	1036	1044	1043	289
25°	940	937	968	986	992	433
35°	825	832	877	914	930	517
45°	688	703	775	830	851	531
55°	535	565	660	729	757	478
65°	366	423	540	629	654	361
75°	186	285	413	385	366	198
85°	32	113	40	32	32	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1068.5	1068.5	1068.5	1068.5	1068.5
2.5°	1070.6	1056.2	1072.1	1072.1	1064.2
5°	1066.3	1053.4	1069.2	1069.2	1065.6
7.5°	1059.8	1047.6	1064.2	1064.2	1062.7
10°	1049.8	1038.2	1056.2	1058.4	1057.0
12.5°	1037.5	1026.7	1047.6	1051.9	1051.2
15°	1021.7	1013.0	1036.1	1044.0	1043.3
17.5°	1006.6	997.2	1023.1	1032.5	1031.8
20°	986.4	979.2	1008.0	1016.6	1018.8
22.5°	964.8	959.0	989.3	1000.8	1006.6
25°	939.6	937.4	968.4	985.7	992.2
27.5°	915.1	913.0	947.5	970.6	977.8
30°	886.3	887.8	924.5	951.8	962.6
32.5°	857.5	860.4	901.4	933.1	946.1
35°	825.1	831.6	877.0	914.4	930.2
37.5°	793.4	801.4	853.2	895.7	911.5
40°	759.6	769.0	827.3	874.8	892.8
42.5°	723.6	736.6	802.1	852.5	871.2
45°	687.6	702.7	774.7	830.2	851.0
47.5°	650.9	669.6	748.1	807.1	828.7
50°	613.4	635.8	719.3	781.9	803.5
52.5°	574.6	600.5	689.8	754.6	779.8
55°	535.0	565.2	660.2	729.4	757.4
57.5°	493.9	530.6	629.3	705.6	735.1
60°	451.4	494.6	597.6	682.6	713.5
62.5°	409.0	459.4	566.6	660.2	687.6
65°	365.8	423.4	540.0	628.6	654.5
67.5°	321.8	388.1	516.2	596.9	625.7
70°	276.5	353.5	487.4	561.6	565.9
72.5°	233.3	317.5	452.2	486.7	474.5
75°	185.8	285.1	412.6	385.2	366.5
77.5°	143.3	260.6	329.8	275.8	252.7
80°	102.2	231.1	229.0	155.5	128.9
82.5°	65.5	192.2	121.7	48.2	39.6
85°	32.4	113.0	39.6	31.7	31.7
87.5°	11.5	44.6	27.4	18.7	16.6
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)