

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: P544609

Luminaire Tested: **4SLES-2-T8-1G-B835-U-ICF-4FT-REFL**

Issue Date: 7/2/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P544609  
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-T8-1G-B835-U-ICF-4FT-REFL  
Description: 80CRI 3500K TLED with Reflector  
Light Source: MainsFit Glass TLED - (2) 4FT 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3117.8 lumens  
Efficiency: N/A  
Efficacy: 157.5 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

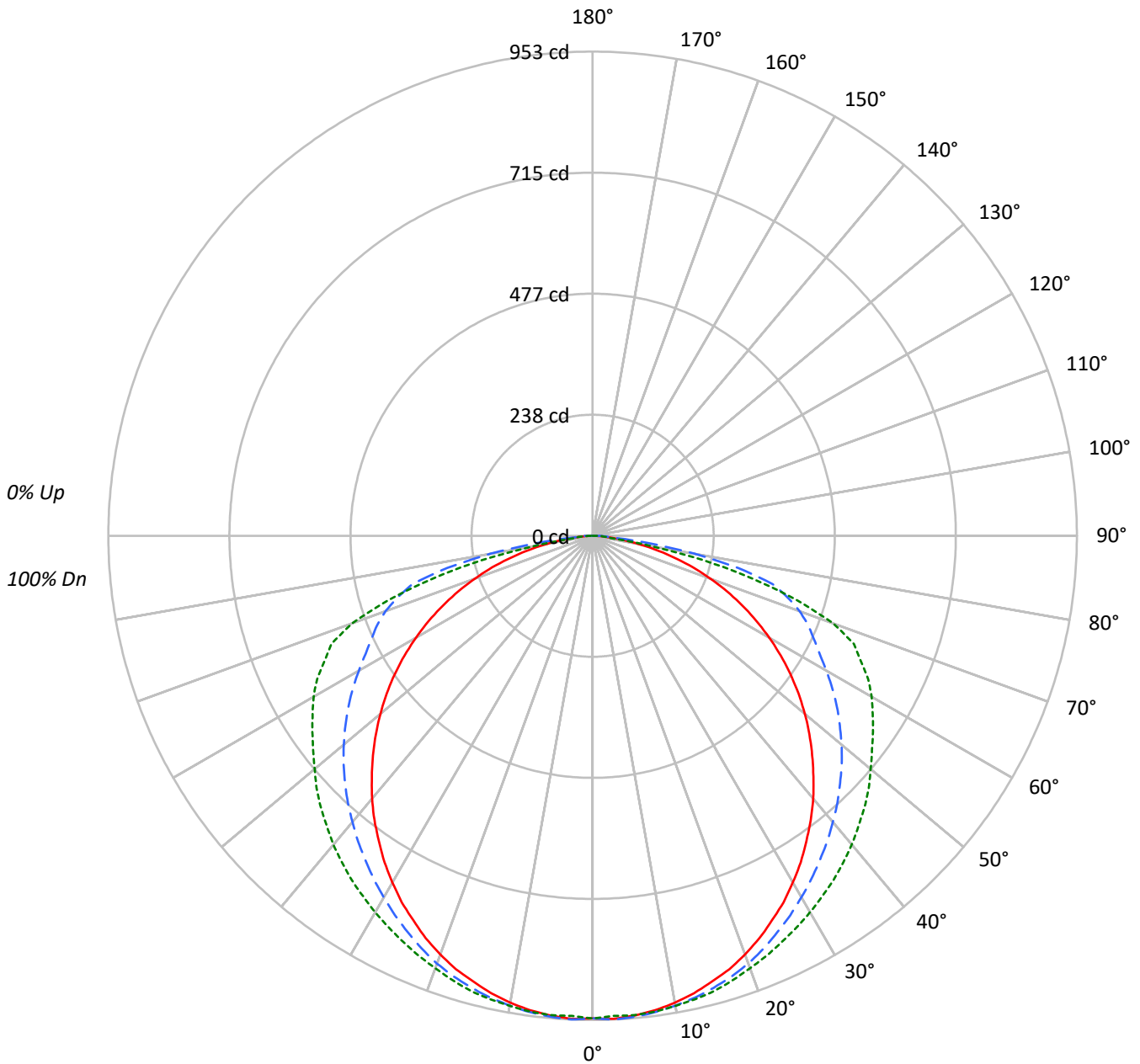
Input Watts (W): 19.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					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°	2788	2788	2788
5°	2793	2801	2791
10°	2782	2799	2801
15°	2760	2799	2819
20°	2739	2799	2829
25°	2705	2788	2857
30°	2671	2786	2901
35°	2628	2794	2964
40°	2588	2818	3041
45°	2538	2859	3141
50°	2491	2920	3262
55°	2434	3004	3446
60°	2356	3119	3724
65°	2258	3334	4042
70°	2110	3719	4318
75°	1873	4160	3696
80°	1537	3441	1938
85°	970	1186	950



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.0	2.9
10°-20°	258.8	8.3
20°-30°	395.5	12.7
30°-40°	487.3	15.6
40°-50°	528.2	16.9
50°-60°	517.6	16.6
60°-70°	462.6	14.8
70°-80°	311.2	10.0
80°-90°	66.6	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°	744.3	23.9
0°-40°	1231.5	39.5
0°-60°	2277.4	73.0
0°-90°	3117.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3117.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	950	950	950	950	950	
5°	948	936	950	950	947	90
15°	908	900	921	928	927	256
25°	835	833	861	876	882	385
35°	733	739	780	813	827	459
45°	611	625	689	738	756	472
55°	476	502	587	648	673	425
65°	325	376	480	559	582	321
75°	165	253	367	342	326	176
85°	29	100	35	28	28	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	949.8	949.8	949.8	949.8	949.8
2.5°	951.7	938.9	953.0	953.0	945.9
5°	947.8	936.3	950.4	950.4	947.2
7.5°	942.1	931.2	945.9	945.9	944.6
10°	933.1	922.9	938.9	940.8	939.5
12.5°	922.2	912.6	931.2	935.0	934.4
15°	908.2	900.5	921.0	928.0	927.4
17.5°	894.7	886.4	909.4	917.8	917.1
20°	876.8	870.4	896.0	903.7	905.6
22.5°	857.6	852.5	879.4	889.6	894.7
25°	835.2	833.3	860.8	876.2	881.9
27.5°	813.4	811.5	842.2	862.7	869.1
30°	787.8	789.1	821.8	846.1	855.7
32.5°	762.2	764.8	801.3	829.4	841.0
35°	733.4	739.2	779.5	812.8	826.9
37.5°	705.3	712.3	758.4	796.2	810.2
40°	675.2	683.5	735.4	777.6	793.6
42.5°	643.2	654.7	713.0	757.8	774.4
45°	611.2	624.6	688.6	737.9	756.5
47.5°	578.6	595.2	665.0	717.4	736.6
50°	545.3	565.1	639.4	695.0	714.2
52.5°	510.7	533.8	613.1	670.7	693.1
55°	475.5	502.4	586.9	648.3	673.3
57.5°	439.0	471.7	559.4	627.2	653.4
60°	401.3	439.7	531.2	606.7	634.2
62.5°	363.5	408.3	503.7	586.9	611.2
65°	325.1	376.3	480.0	558.7	581.8
67.5°	286.1	345.0	458.9	530.6	556.2
70°	245.8	314.2	433.3	499.2	503.0
72.5°	207.4	282.2	401.9	432.6	421.8
75°	165.1	253.4	366.7	342.4	325.8
77.5°	127.4	231.7	293.1	245.1	224.6
80°	90.9	205.4	203.5	138.2	114.6
82.5°	58.2	170.9	108.2	42.9	35.2
85°	28.8	100.5	35.2	28.2	28.2
87.5°	10.2	39.7	24.3	16.6	14.7
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







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







(END OF REPORT)