

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: P544613

Luminaire Tested: **4SLES-2-T8-1G-B850-U-ICF-4FT-REFL**

Issue Date: 7/2/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P544613  
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-B850-U-ICF-4FT-REFL  
Description: 80CRI 5000K TLED with Reflector  
Light Source: MainsFit Glass TLED - (2) 4FT 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3215.2 lumens  
Efficiency: N/A  
Efficacy: 162.4 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

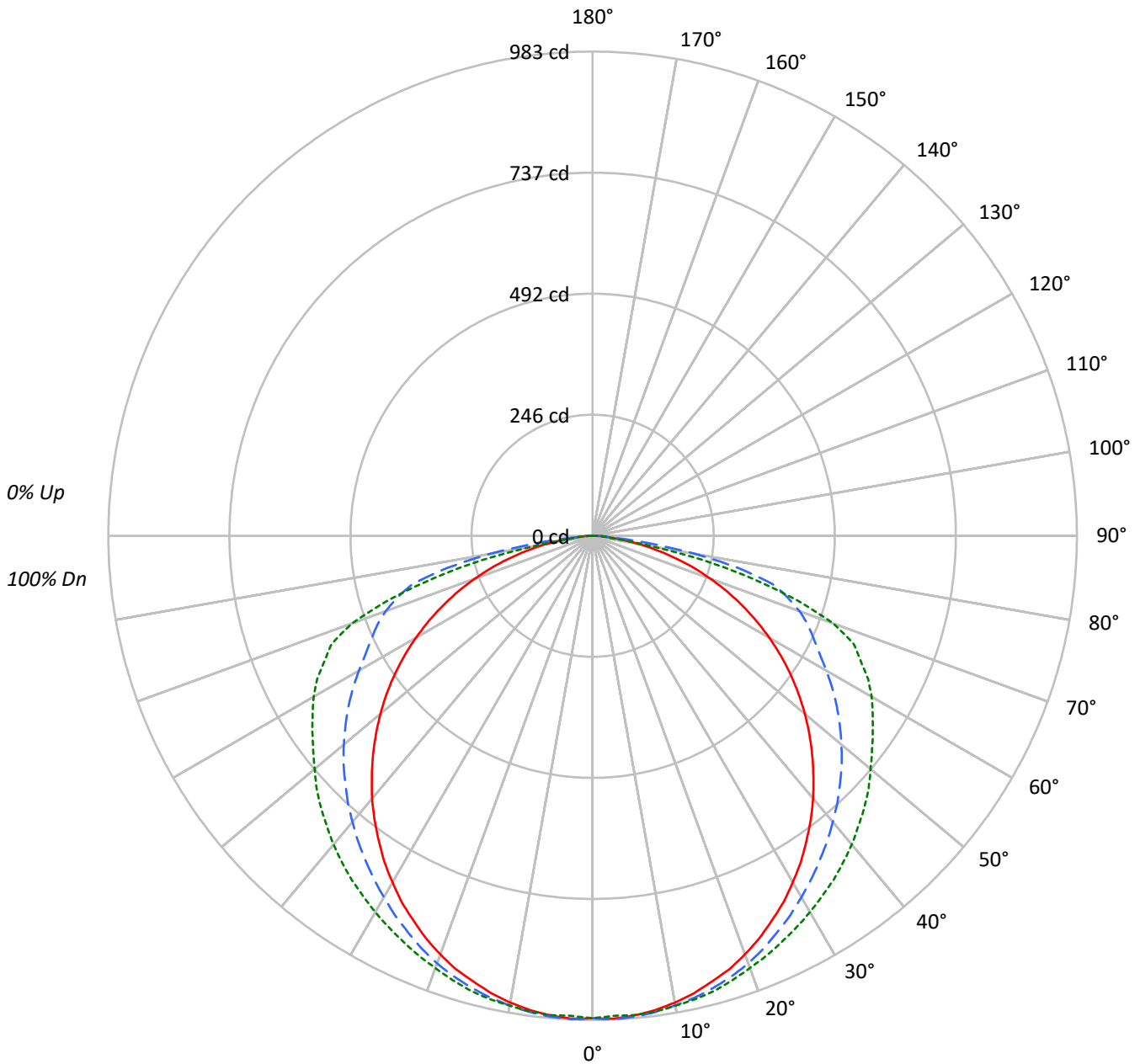
Input Watts (W): 19.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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	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°	2875	2875	2875
5°	2881	2888	2879
10°	2869	2886	2888
15°	2846	2887	2907
20°	2825	2887	2918
25°	2790	2876	2946
30°	2754	2873	2991
35°	2711	2881	3056
40°	2669	2906	3136
45°	2617	2949	3239
50°	2568	3011	3364
55°	2510	3098	3554
60°	2430	3216	3841
65°	2329	3439	4167
70°	2175	3835	4453
75°	1932	4290	3810
80°	1584	3549	1997
85°	1000	1223	977



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.8	2.9
10°-20°	266.9	8.3
20°-30°	407.9	12.7
30°-40°	502.5	15.6
40°-50°	544.7	16.9
50°-60°	533.8	16.6
60°-70°	477.0	14.8
70°-80°	320.9	10.0
80°-90°	68.6	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°	767.5	23.9
0°-40°	1270.0	39.5
0°-60°	2348.6	73.0
0°-90°	3215.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3215.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	979	979	979	979	979	
5°	978	966	980	980	977	93
15°	936	929	950	957	956	264
25°	861	859	888	904	910	397
35°	756	762	804	838	853	474
45°	630	644	710	761	780	486
55°	490	518	605	669	694	438
65°	335	388	495	576	600	331
75°	170	261	378	353	336	182
85°	30	104	36	29	29	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	979.4	979.4	979.4	979.4	979.4
2.5°	981.4	968.2	982.7	982.7	975.5
5°	977.5	965.6	980.1	980.1	976.8
7.5°	971.5	960.3	975.5	975.5	974.2
10°	962.3	951.7	968.2	970.2	968.9
12.5°	951.1	941.2	960.3	964.3	963.6
15°	936.5	928.6	949.7	957.0	956.3
17.5°	922.7	914.1	937.9	946.4	945.8
20°	904.2	897.6	924.0	931.9	933.9
22.5°	884.4	879.1	906.8	917.4	922.7
25°	861.3	859.3	887.7	903.5	909.5
27.5°	838.9	836.9	868.6	889.7	896.3
30°	812.5	813.8	847.4	872.5	882.4
32.5°	786.1	788.7	826.3	855.4	867.2
35°	756.4	762.3	803.9	838.2	852.7
37.5°	727.3	734.6	782.1	821.0	835.6
40°	696.3	704.9	758.3	801.9	818.4
42.5°	663.3	675.2	735.2	781.4	798.6
45°	630.3	644.2	710.2	761.0	780.1
47.5°	596.6	613.8	685.7	739.9	759.7
50°	562.3	582.8	659.3	716.8	736.6
52.5°	526.7	550.4	632.3	691.7	714.8
55°	490.4	518.1	605.2	668.6	694.3
57.5°	452.8	486.4	576.8	646.8	673.9
60°	413.8	453.4	547.8	625.7	654.1
62.5°	374.9	421.1	519.4	605.2	630.3
65°	335.3	388.1	495.0	576.2	599.9
67.5°	295.0	355.7	473.2	547.1	573.5
70°	253.4	324.1	446.8	514.8	518.8
72.5°	213.8	291.1	414.5	446.2	434.9
75°	170.3	261.4	378.2	353.1	335.9
77.5°	131.3	238.9	302.3	252.8	231.7
80°	93.7	211.9	209.9	142.6	118.1
82.5°	60.1	176.2	111.5	44.2	36.3
85°	29.7	103.6	36.3	29.0	29.0
87.5°	10.6	40.9	25.1	17.2	15.2
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)