

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: P544605

Luminaire Tested: **4SLES-1-T8-3G-B840-U-ICF-4FT-REFL**

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-256-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/2/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SLES-1-T8-3G-B840-U-ICF-4FT-REFL
Description: 80CRI 4000K TLED with Reflector
Light Source: MainsFit Glass TLED - 4FT 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2032.9 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.42
Luminous Opening: Rectangular (W 0.92' x L: 4' x H: 0')
CIE Type: Direct

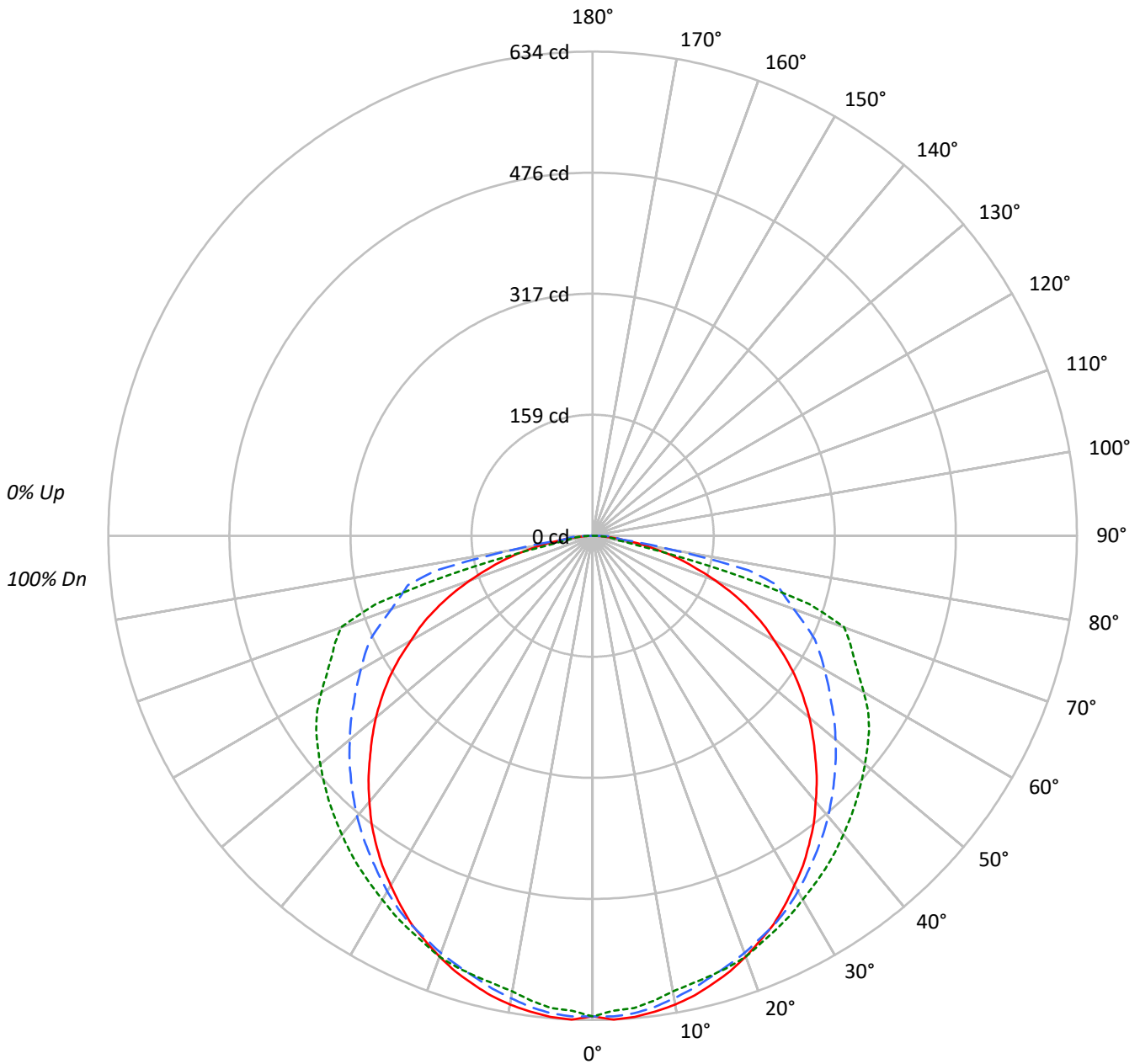
Input Watts (W): 14.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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				100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82				82
2	97	88	81	75	95	86	80	74	83	77	72	79	75	70	76	72	69	67				67
3	88	77	68	61	85	75	67	61	72	65	59	69	63	58	67	62	57	55				55
4	80	68	58	51	78	66	57	51	64	56	50	61	55	49	59	53	49	46				46
5	74	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42	40				40
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	48	41	36	34				34
7	63	49	39	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30				30
8	58	44	35	29	57	44	35	29	42	34	29	41	34	29	40	33	29	27				27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24				24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	22				22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1847	1847	1847
5°	1864	1849	1830
10°	1858	1833	1805
15°	1846	1818	1813
20°	1832	1816	1832
25°	1818	1821	1842
30°	1791	1822	1865
35°	1770	1824	1906
40°	1741	1838	1957
45°	1712	1859	2030
50°	1692	1895	2126
55°	1664	1952	2261
60°	1613	2057	2407
65°	1570	2229	2620
70°	1464	2401	3007
75°	1325	2839	2049
80°	1079	1762	582
85°	680	1017	707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	2.9
10°-20°	169.2	8.3
20°-30°	258.3	12.7
30°-40°	317.8	15.6
40°-50°	345.0	17.0
50°-60°	339.7	16.7
60°-70°	304.2	15.0
70°-80°	199.0	9.8
80°-90°	40.3	2.0
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°	486.8	23.9
0°-40°	804.6	39.6
0°-60°	1489.4	73.3
0°-90°	2032.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2032.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	629	629	629	629	629	
5°	632	623	628	625	621	60
15°	607	596	598	600	596	171
25°	561	545	562	569	569	258
35°	494	481	509	526	532	309
45°	412	410	448	478	489	319
55°	325	327	381	426	442	290
65°	226	244	321	361	377	223
75°	117	176	250	221	181	123
85°	20	57	30	22	21	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	629.2	629.2	629.2	629.2	629.2
2.5°	634.2	625.0	630.0	628.3	622.4
5°	632.5	623.3	627.5	625.0	620.8
7.5°	628.3	618.2	622.4	618.2	614.0
10°	623.3	613.2	614.9	610.7	605.6
12.5°	616.6	604.8	607.3	604.8	600.6
15°	607.3	595.6	598.1	599.8	596.4
17.5°	598.1	585.5	589.7	593.9	592.2
20°	586.3	572.9	581.3	587.2	586.3
22.5°	573.7	559.4	571.2	577.9	577.1
25°	561.1	545.2	562.0	568.7	568.7
27.5°	545.2	530.9	551.0	558.6	560.3
30°	528.4	514.9	537.6	547.7	550.2
32.5°	512.4	498.1	523.3	536.8	541.0
35°	493.9	481.3	509.0	525.8	531.7
37.5°	475.4	464.5	494.8	514.9	521.6
40°	454.4	446.9	479.6	503.2	510.7
42.5°	434.3	429.2	463.7	491.4	499.8
45°	412.4	409.9	447.7	478.0	488.9
47.5°	391.4	389.8	431.8	465.4	477.1
50°	370.4	368.8	415.0	451.9	465.4
52.5°	347.8	347.8	399.0	440.2	453.6
55°	325.1	326.8	381.4	425.9	441.8
57.5°	300.7	305.8	366.2	413.3	427.6
60°	274.7	284.8	350.3	398.2	409.9
62.5°	252.0	264.6	336.0	378.8	392.3
65°	226.0	244.4	320.9	361.2	377.2
67.5°	199.1	226.0	299.9	346.1	364.6
70°	170.5	207.5	279.7	332.6	350.3
72.5°	142.8	190.7	263.8	308.3	297.4
75°	116.8	175.6	250.3	220.9	180.6
77.5°	89.9	156.2	209.2	95.8	68.0
80°	63.8	138.6	104.2	34.4	34.4
82.5°	40.3	122.6	38.6	27.7	27.7
85°	20.2	57.1	30.2	21.8	21.0
87.5°	7.6	34.4	21.8	11.8	10.1
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)