

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: P544603

Luminaire Tested: **4SLES-1-T8-3G-B835-U-ICF-4FT-REFL**

Issue Date: 7/2/2021

Test Information

Test Method: LM-41-14
Report Number: P544603
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-B835-U-ICF-4FT-REFL
Description: 80CRI 3500K TLED with Reflector
Light Source: MainsFit Glass TLED - 4FT 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1936.1 lumens
Efficiency: N/A
Efficacy: 133.5 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

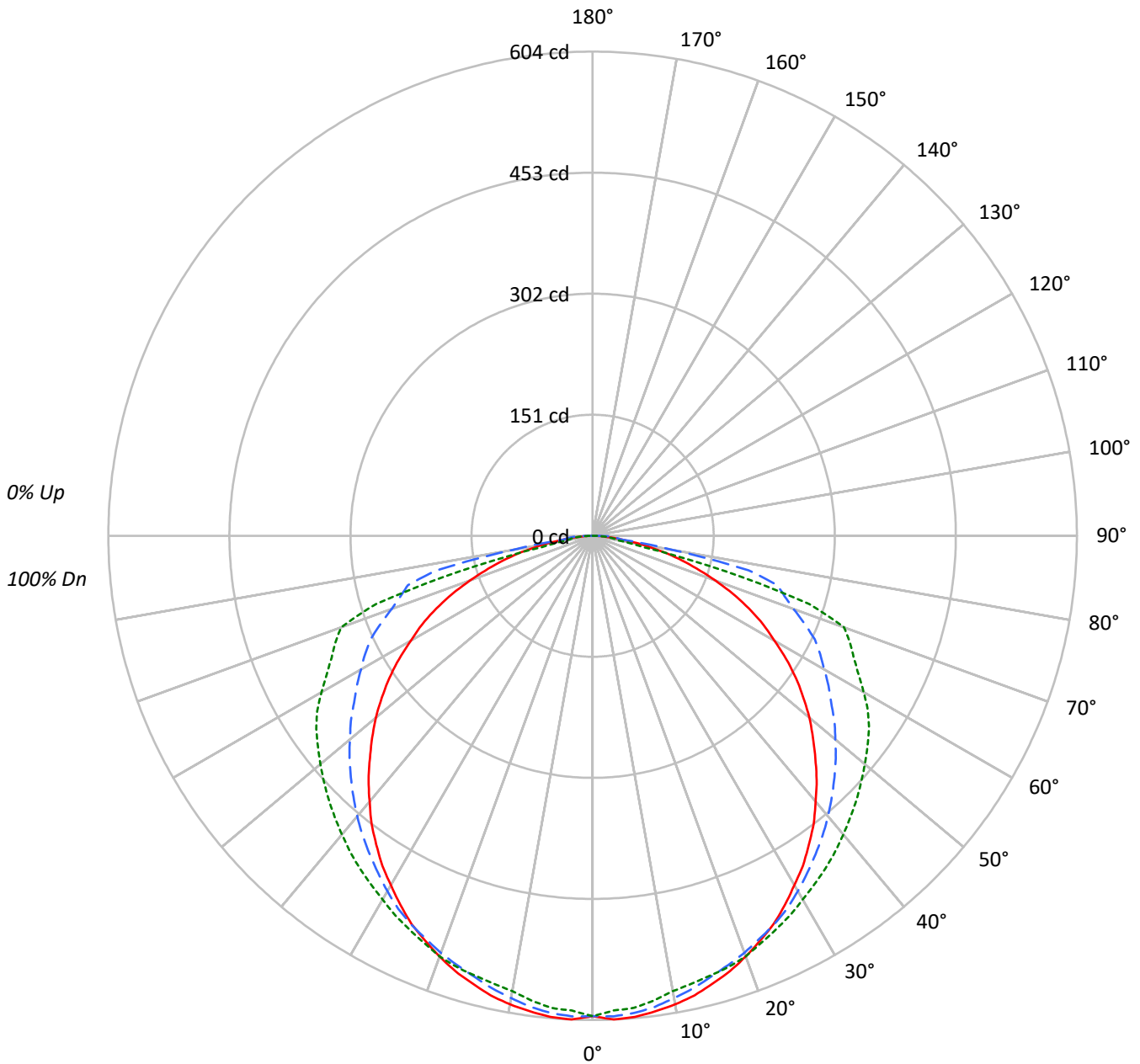
Input Watts (W): 14.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
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	93	89	92	89	87	88	86	84	82			
2	97	88	81	75	95	86	80	74	83	77	72	79	75	70	76	72	69	67			
3	88	77	68	61	85	75	67	61	72	65	59	69	63	58	67	62	57	55			
4	80	68	58	51	78	66	57	51	64	56	50	61	55	49	59	53	49	46			
5	74	60	51	44	71	59	50	43	57	49	43	55	48	42	53	47	42	40			
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	44	35	29	42	34	29	41	34	29	40	33	29	27			
9	54	41	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	29	24	35	28	23	34	28	23	22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1759	1759	1759
5°	1775	1761	1742
10°	1770	1746	1720
15°	1758	1731	1726
20°	1745	1730	1745
25°	1731	1734	1754
30°	1706	1736	1776
35°	1686	1738	1815
40°	1659	1751	1864
45°	1631	1770	1933
50°	1611	1805	2024
55°	1585	1859	2154
60°	1536	1959	2292
65°	1495	2123	2495
70°	1394	2287	2864
75°	1261	2704	1951
80°	1028	1677	555
85°	647	970	674



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.5	2.9
10°-20°	161.1	8.3
20°-30°	246.0	12.7
30°-40°	302.7	15.6
40°-50°	328.6	17.0
50°-60°	323.5	16.7
60°-70°	289.7	15.0
70°-80°	189.5	9.8
80°-90°	38.4	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°	463.6	23.9
0°-40°	766.3	39.6
0°-60°	1418.4	73.3
0°-90°	1936.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1936.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	599	599	599	599	599	
5°	602	594	598	595	591	57
15°	578	567	570	571	568	163
25°	534	519	535	542	542	246
35°	470	458	485	501	506	294
45°	393	390	426	455	466	304
55°	310	311	363	406	421	276
65°	215	233	306	344	359	212
75°	111	167	238	210	172	117
85°	19	54	29	21	20	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	599.2	599.2	599.2	599.2	599.2
2.5°	604.0	595.2	600.0	598.4	592.8
5°	602.4	593.6	597.6	595.2	591.2
7.5°	598.4	588.8	592.8	588.8	584.8
10°	593.6	584.0	585.6	581.6	576.8
12.5°	587.2	576.0	578.4	576.0	572.0
15°	578.4	567.2	569.6	571.2	568.0
17.5°	569.6	557.6	561.6	565.6	564.0
20°	558.4	545.6	553.6	559.2	558.4
22.5°	546.4	532.8	544.0	550.4	549.6
25°	534.4	519.2	535.2	541.6	541.6
27.5°	519.2	505.6	524.8	532.0	533.6
30°	503.2	490.4	512.0	521.6	524.0
32.5°	488.0	474.4	498.4	511.2	515.2
35°	470.4	458.4	484.8	500.8	506.4
37.5°	452.8	442.4	471.2	490.4	496.8
40°	432.8	425.6	456.8	479.2	486.4
42.5°	413.6	408.8	441.6	468.0	476.0
45°	392.8	390.4	426.4	455.2	465.6
47.5°	372.8	371.2	411.2	443.2	454.4
50°	352.8	351.2	395.2	430.4	443.2
52.5°	331.2	331.2	380.0	419.2	432.0
55°	309.6	311.2	363.2	405.6	420.8
57.5°	286.4	291.2	348.8	393.6	407.2
60°	261.6	271.2	333.6	379.2	390.4
62.5°	240.0	252.0	320.0	360.8	373.6
65°	215.2	232.8	305.6	344.0	359.2
67.5°	189.6	215.2	285.6	329.6	347.2
70°	162.4	197.6	266.4	316.8	333.6
72.5°	136.0	181.6	251.2	293.6	283.2
75°	111.2	167.2	238.4	210.4	172.0
77.5°	85.6	148.8	199.2	91.2	64.8
80°	60.8	132.0	99.2	32.8	32.8
82.5°	38.4	116.8	36.8	26.4	26.4
85°	19.2	54.4	28.8	20.8	20.0
87.5°	7.2	32.8	20.8	11.2	9.6
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)