

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P732553

Luminaire Tested: **14FCZ2-25-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275502)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-B2750-W2D-CP250-3500K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RIBBED LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

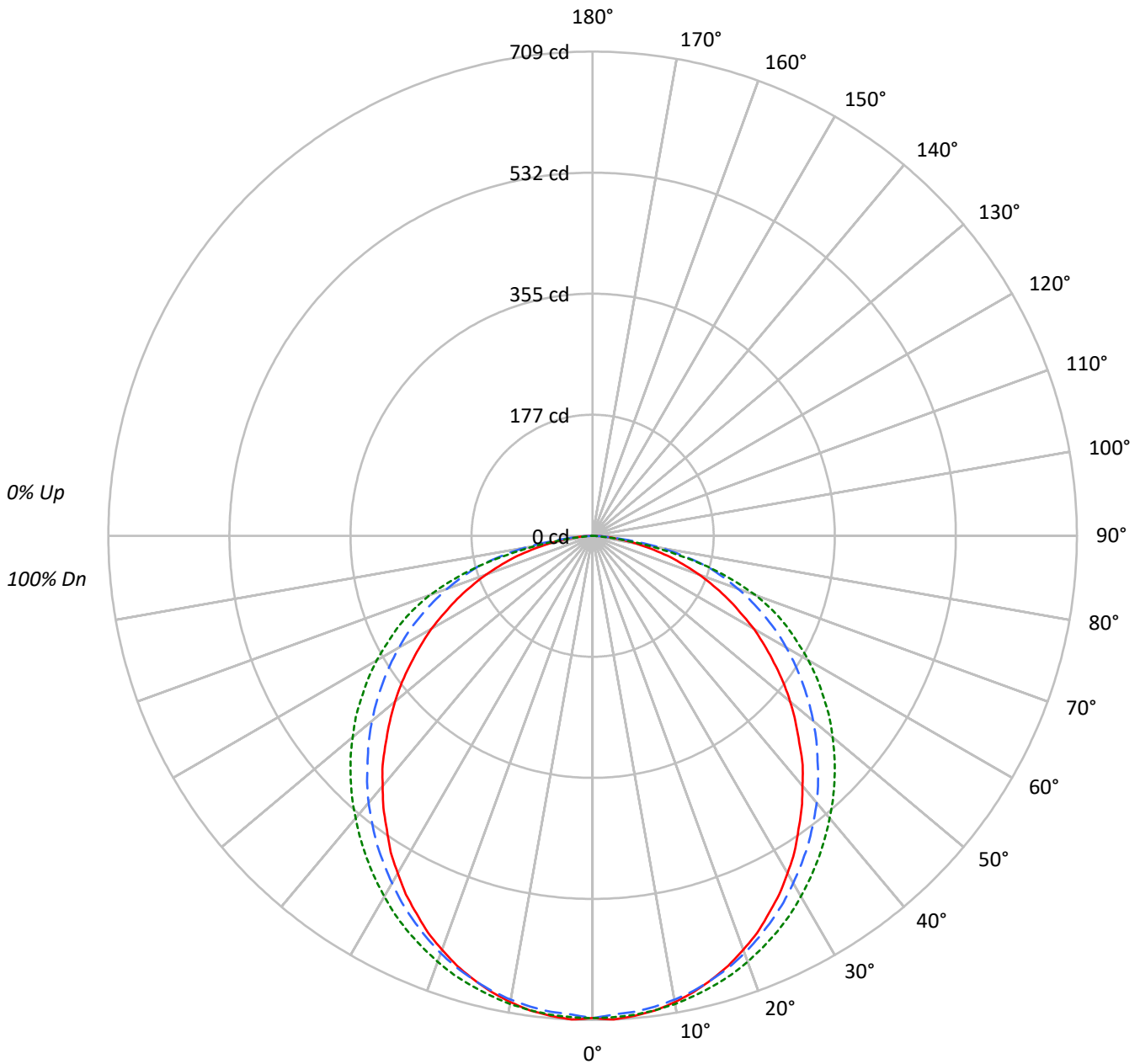
Lumens per Lamp: N/A
Luminaire Lumens: 2050.0 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
Input Voltage (V): NR
Input Current (A_{in}): 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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83				83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69				69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58				58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49				49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42				42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37				37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32				32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29				29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26				26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1993	1993	1993
5°	2000	1983	1995
10°	1987	1977	1995
15°	1966	1968	1994
20°	1937	1954	1994
25°	1900	1935	1992
30°	1859	1915	1988
35°	1810	1898	1986
40°	1762	1880	1989
45°	1708	1859	2000
50°	1658	1851	2013
55°	1595	1845	2031
60°	1538	1848	2059
65°	1459	1853	2091
70°	1370	1868	2090
75°	1241	1885	1890
80°	1019	1626	1344
85°	755	771	311



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	3.3
10°-20°	190.9	9.3
20°-30°	287.6	14.0
30°-40°	345.1	16.8
40°-50°	359.7	17.5
50°-60°	333.0	16.2
60°-70°	269.0	13.1
70°-80°	164.0	8.0
80°-90°	33.9	1.7
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°	545.3	26.6
0°-40°	890.4	43.4
0°-60°	1583.1	77.2
0°-90°	2050.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2050.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	706	704	700	705	704	67
15°	673	673	673	682	682	190
25°	610	614	621	637	640	281
35°	525	534	551	571	576	329
45°	428	441	466	492	501	331
55°	324	341	375	404	413	290
65°	218	240	278	305	313	216
75°	114	139	173	176	173	120
85°	23	35	24	13	10	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	706.2	706.2	706.2	706.2	706.2
2.5°	709.0	706.7	701.7	706.7	705.7
5°	705.7	704.0	699.8	704.9	704.0
7.5°	701.2	699.3	695.7	701.7	700.7
10°	693.4	692.5	689.8	696.7	696.2
12.5°	684.3	683.8	682.5	690.3	689.8
15°	672.9	673.3	673.3	682.5	682.5
17.5°	660.1	660.9	662.8	672.9	674.3
20°	645.0	646.8	650.5	661.9	663.7
22.5°	629.5	630.9	636.3	650.0	651.9
25°	610.2	613.9	621.2	636.8	639.5
27.5°	592.0	595.1	605.2	621.2	625.8
30°	570.5	575.5	587.4	604.8	609.8
32.5°	549.9	555.4	569.1	589.2	593.7
35°	525.3	533.5	550.8	571.0	576.4
37.5°	502.9	510.6	530.3	552.2	558.6
40°	478.1	487.8	510.2	533.5	539.9
42.5°	455.3	464.4	488.7	512.4	521.1
45°	427.9	440.7	465.8	491.8	501.0
47.5°	402.7	415.5	444.4	472.2	480.5
50°	377.5	391.3	421.5	450.3	458.5
52.5°	351.5	366.2	398.6	427.4	437.1
55°	324.1	341.0	374.9	404.1	412.8
57.5°	298.0	315.4	351.5	381.2	389.9
60°	272.5	290.3	327.3	355.6	364.8
62.5°	244.1	265.2	303.5	331.4	338.3
65°	218.5	240.0	277.5	305.3	313.1
67.5°	191.5	214.8	252.3	277.9	285.3
70°	166.0	190.2	226.3	250.1	253.2
72.5°	138.6	163.2	199.7	214.8	214.8
75°	113.8	138.9	172.8	175.6	173.3
77.5°	86.8	114.8	136.7	131.1	125.7
80°	62.7	90.1	100.0	90.1	82.7
82.5°	42.0	65.3	60.3	47.9	42.5
85°	23.3	34.7	23.8	13.2	9.6
87.5°	8.7	7.8	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







(END OF REPORT)