

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: P732547

Luminaire Tested: **14FCZ2-25-B2750-W2D-CP187-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732547
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-CP187-3000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RIBBED LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

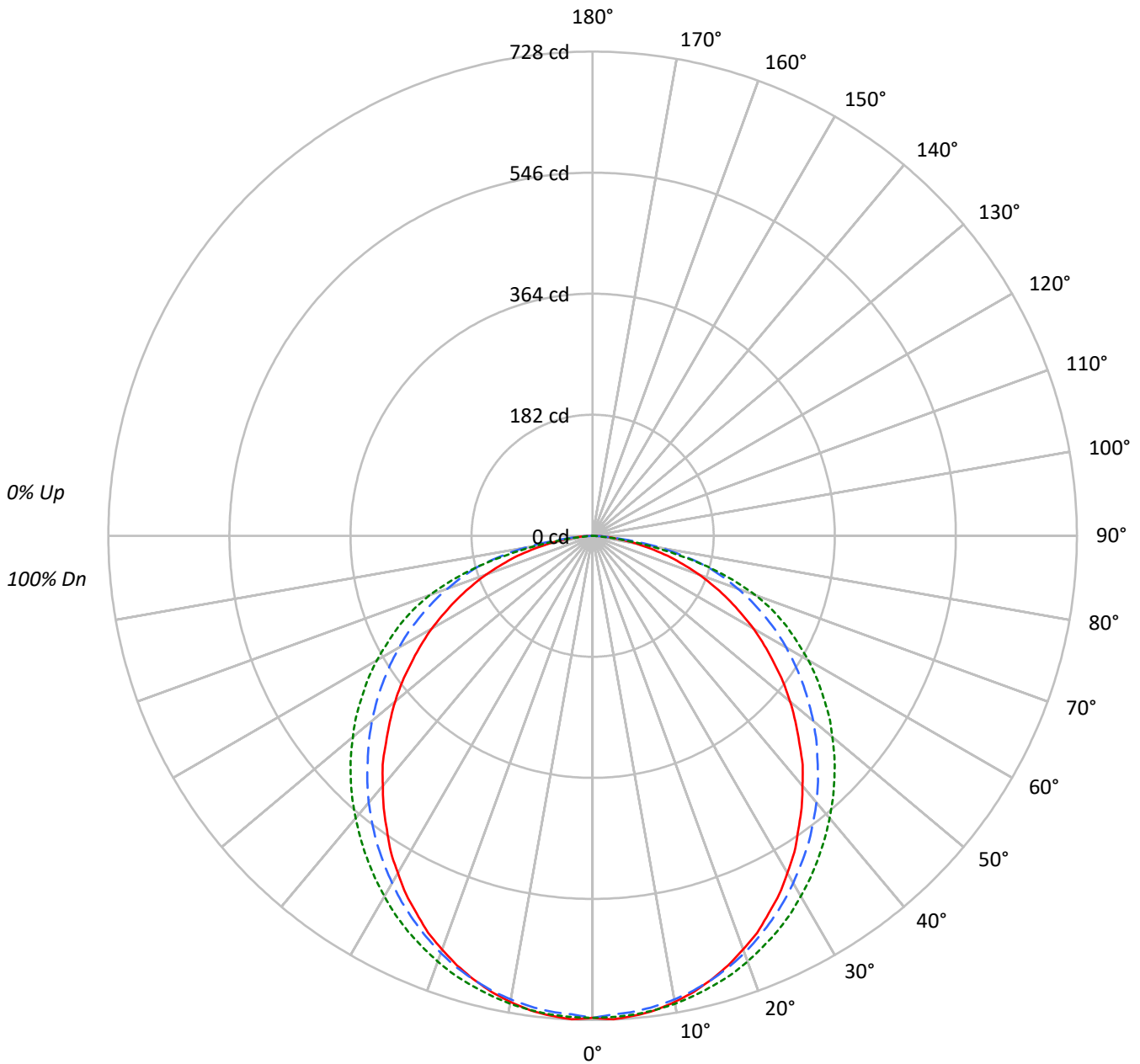
Lumens per Lamp: N/A
Luminaire Lumens: 2104.0 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
Input Voltage (V): NR
Input Current (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	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°	2046	2046	2046
5°	2052	2035	2047
10°	2040	2029	2048
15°	2018	2019	2047
20°	1988	2005	2046
25°	1951	1985	2044
30°	1908	1965	2040
35°	1858	1948	2039
40°	1808	1929	2042
45°	1753	1908	2053
50°	1702	1900	2066
55°	1637	1894	2085
60°	1578	1896	2114
65°	1497	1902	2147
70°	1406	1916	2145
75°	1274	1934	1940
80°	1045	1669	1380
85°	774	790	317



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	3.3
10°-20°	195.9	9.3
20°-30°	295.1	14.0
30°-40°	354.2	16.8
40°-50°	369.2	17.5
50°-60°	341.7	16.2
60°-70°	276.1	13.1
70°-80°	168.4	8.0
80°-90°	34.7	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°	559.7	26.6
0°-40°	913.8	43.4
0°-60°	1624.8	77.2
0°-90°	2104.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2104.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	724	722	718	723	722	69
15°	691	691	691	700	700	195
25°	626	630	638	654	656	289
35°	539	548	565	586	592	338
45°	439	452	478	505	514	339
55°	333	350	385	415	424	298
65°	224	246	285	313	321	222
75°	117	143	177	180	178	123
85°	24	36	24	14	10	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	724.8	724.8	724.8	724.8	724.8
2.5°	727.7	725.4	720.2	725.4	724.3
5°	724.3	722.5	718.3	723.4	722.5
7.5°	719.7	717.7	714.0	720.2	719.2
10°	711.7	710.8	707.9	715.0	714.5
12.5°	702.4	701.9	700.4	708.4	707.9
15°	690.6	691.0	691.0	700.4	700.4
17.5°	677.4	678.3	680.3	690.6	692.0
20°	661.9	663.9	667.6	679.4	681.2
22.5°	646.1	647.5	653.0	667.1	669.0
25°	626.3	630.0	637.5	653.5	656.4
27.5°	607.6	610.8	621.1	637.5	642.3
30°	585.5	590.6	602.9	620.7	625.9
32.5°	564.4	570.0	584.1	604.7	609.4
35°	539.1	547.5	565.3	586.0	591.6
37.5°	516.1	524.0	544.3	566.8	573.3
40°	490.7	500.6	523.6	547.5	554.1
42.5°	467.3	476.6	501.5	525.9	534.9
45°	439.1	452.3	478.0	504.8	514.2
47.5°	413.3	426.5	456.1	484.6	493.1
50°	387.5	401.6	432.6	462.1	470.5
52.5°	360.7	375.9	409.0	438.6	448.6
55°	332.6	350.0	384.8	414.7	423.6
57.5°	305.9	323.7	360.7	391.2	400.1
60°	279.6	298.0	335.9	365.0	374.4
62.5°	250.6	272.1	311.5	340.1	347.2
65°	224.2	246.3	284.8	313.3	321.4
67.5°	196.6	220.5	259.0	285.2	292.8
70°	170.4	195.2	232.2	256.6	259.9
72.5°	142.2	167.5	205.0	220.5	220.5
75°	116.8	142.6	177.3	180.2	177.9
77.5°	89.1	117.8	140.3	134.6	129.0
80°	64.3	92.5	102.7	92.5	84.9
82.5°	43.1	67.0	61.9	49.2	43.7
85°	23.9	35.6	24.4	13.6	9.8
87.5°	8.9	8.0	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)