

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: P732546

Luminaire Tested: **14FCZ2-25-B2750-W2D-CP187-2700K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732546
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-CP187-2700K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RIBBED LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

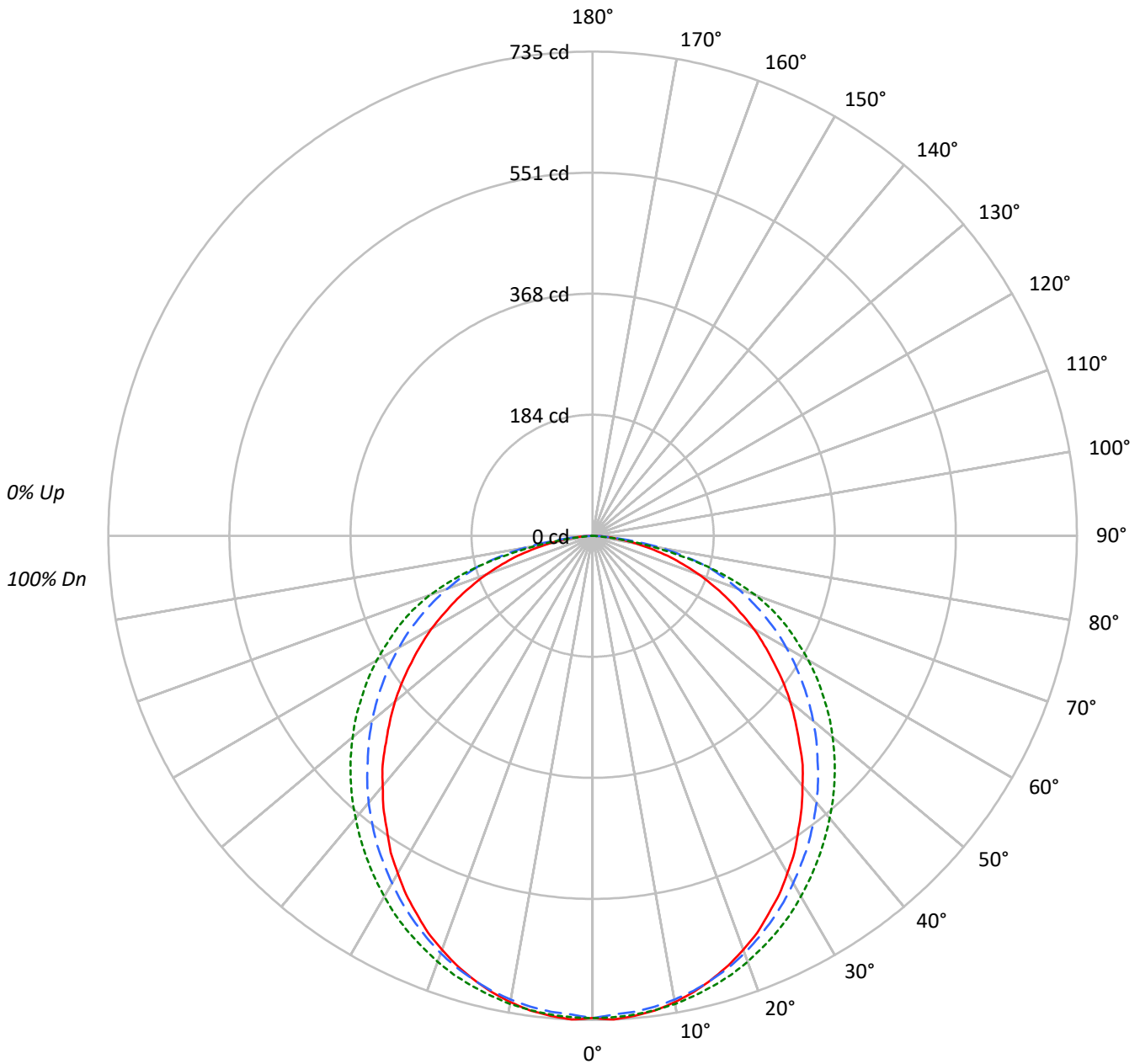
Lumens per Lamp: N/A
Luminaire Lumens: 2125.0 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2066	2066	2066
5°	2073	2055	2068
10°	2060	2049	2068
15°	2038	2039	2067
20°	2008	2025	2067
25°	1970	2005	2065
30°	1927	1985	2061
35°	1876	1968	2059
40°	1826	1948	2062
45°	1770	1927	2073
50°	1718	1919	2087
55°	1653	1912	2106
60°	1594	1915	2135
65°	1513	1921	2168
70°	1420	1935	2166
75°	1286	1953	1959
80°	1057	1686	1393
85°	781	800	321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	3.3
10°-20°	197.9	9.3
20°-30°	298.1	14.0
30°-40°	357.7	16.8
40°-50°	372.8	17.5
50°-60°	345.2	16.2
60°-70°	278.9	13.1
70°-80°	170.0	8.0
80°-90°	35.1	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°	565.3	26.6
0°-40°	923.0	43.4
0°-60°	1641.0	77.2
0°-90°	2125.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2125.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	732	732	732	732	732	
5°	732	730	725	731	730	69
15°	698	698	698	707	707	197
25°	632	636	644	660	663	292
35°	544	553	571	592	598	341
45°	444	457	483	510	519	343
55°	336	354	389	419	428	301
65°	226	249	288	316	325	224
75°	118	144	179	182	180	124
85°	24	36	25	14	10	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	732.1	732.1	732.1	732.1	732.1
2.5°	735.0	732.6	727.4	732.6	731.6
5°	731.6	729.7	725.4	730.6	729.7
7.5°	726.9	724.9	721.1	727.4	726.3
10°	718.8	717.9	715.0	722.2	721.6
12.5°	709.4	708.9	707.4	715.5	715.0
15°	697.5	697.9	697.9	707.4	707.4
17.5°	684.2	685.1	687.1	697.5	698.9
20°	668.6	670.5	674.3	686.2	688.0
22.5°	652.5	653.9	659.6	673.8	675.7
25°	632.5	636.3	643.9	660.1	662.9
27.5°	613.6	616.9	627.3	643.9	648.7
30°	591.3	596.5	608.9	626.9	632.2
32.5°	570.1	575.7	589.9	610.8	615.5
35°	544.5	553.0	571.0	591.8	597.5
37.5°	521.3	529.2	549.7	572.4	579.1
40°	495.6	505.6	528.8	553.0	559.6
42.5°	472.0	481.4	506.5	531.2	540.2
45°	443.5	456.8	482.8	509.8	519.3
47.5°	417.4	430.7	460.6	489.4	498.1
50°	391.3	405.6	436.9	466.7	475.2
52.5°	364.3	379.6	413.1	443.0	453.0
55°	335.9	353.5	388.6	418.9	427.9
57.5°	308.9	326.9	364.3	395.1	404.1
60°	282.4	300.9	339.3	368.6	378.2
62.5°	253.1	274.9	314.6	343.5	350.6
65°	226.5	248.8	287.6	316.5	324.6
67.5°	198.5	222.7	261.6	288.0	295.7
70°	172.1	197.1	234.5	259.2	262.5
72.5°	143.6	169.2	207.0	222.7	222.7
75°	117.9	144.0	179.1	182.0	179.6
77.5°	90.0	119.0	141.7	135.9	130.3
80°	65.0	93.4	103.7	93.4	85.7
82.5°	43.6	67.7	62.5	49.7	44.1
85°	24.1	36.0	24.7	13.7	9.9
87.5°	9.0	8.1	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)