

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: P732675

Luminaire Tested: **14FCZ2-29-B2750-W2D-CP187-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732675
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: 14FCZ2-29-B2750-W2D-CP187-5000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RIBBED LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

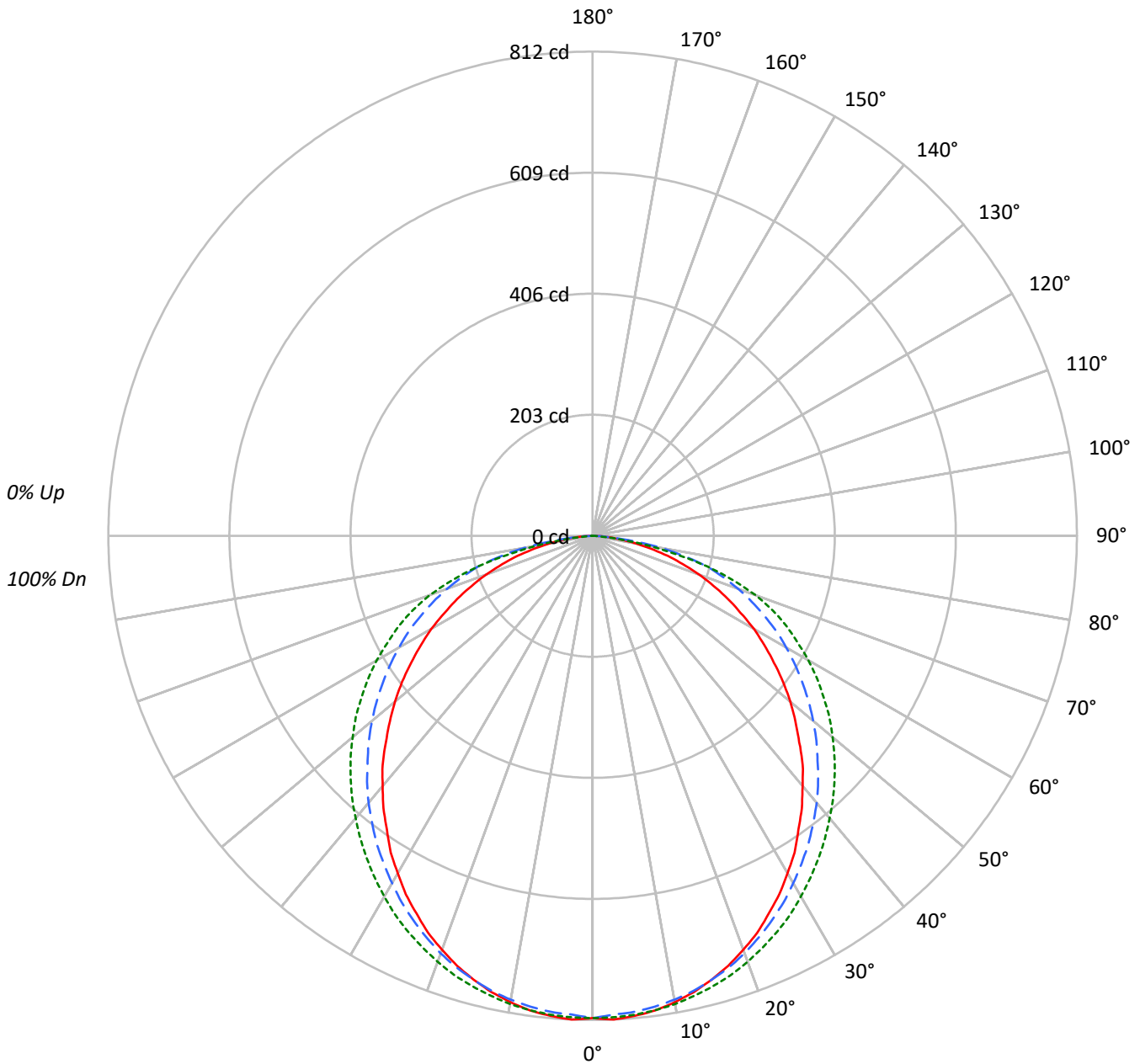
Lumens per Lamp: N/A
Luminaire Lumens: 2348.0 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
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	90	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°	2283	2283	2283
5°	2290	2271	2285
10°	2276	2264	2286
15°	2252	2253	2284
20°	2219	2238	2284
25°	2177	2216	2281
30°	2130	2193	2277
35°	2073	2174	2275
40°	2018	2153	2279
45°	1956	2130	2291
50°	1899	2120	2306
55°	1827	2113	2327
60°	1762	2116	2359
65°	1671	2123	2395
70°	1569	2139	2393
75°	1421	2158	2165
80°	1167	1863	1539
85°	865	881	356



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	3.3
10°-20°	218.7	9.3
20°-30°	329.4	14.0
30°-40°	395.3	16.8
40°-50°	412.0	17.5
50°-60°	381.4	16.2
60°-70°	308.1	13.1
70°-80°	187.9	8.0
80°-90°	38.8	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°	624.6	26.6
0°-40°	1019.8	43.4
0°-60°	1813.2	77.2
0°-90°	2348.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2348.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	809	809	809	809	809	
5°	808	806	802	807	806	77
15°	771	771	771	782	782	217
25°	699	703	712	729	732	322
35°	602	611	631	654	660	377
45°	490	505	534	563	574	379
55°	371	391	429	463	473	333
65°	250	275	318	350	359	247
75°	130	159	198	201	198	137
85°	27	40	27	15	11	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	808.9	808.9	808.9	808.9	808.9
2.5°	812.1	809.5	803.7	809.5	808.3
5°	808.3	806.3	801.6	807.3	806.3
7.5°	803.1	801.0	796.8	803.7	802.6
10°	794.2	793.2	790.0	798.0	797.4
12.5°	783.8	783.2	781.7	790.6	790.0
15°	770.7	771.1	771.1	781.7	781.7
17.5°	756.0	757.0	759.2	770.7	772.3
20°	738.7	740.9	745.1	758.2	760.2
22.5°	721.0	722.6	728.8	744.5	746.6
25°	698.9	703.1	711.5	729.3	732.5
27.5°	678.0	681.6	693.2	711.5	716.8
30°	653.4	659.1	672.8	692.7	698.5
32.5°	629.9	636.1	651.8	674.9	680.0
35°	601.6	611.0	630.9	654.0	660.2
37.5°	576.0	584.8	607.4	632.5	639.8
40°	547.6	558.7	584.3	611.0	618.4
42.5°	521.5	531.9	559.7	586.9	596.9
45°	490.1	504.8	533.5	563.3	573.8
47.5°	461.2	475.9	509.0	540.8	550.3
50°	432.4	448.1	482.7	515.7	525.1
52.5°	402.6	419.4	456.5	489.5	500.6
55°	371.2	390.6	429.4	462.8	472.8
57.5°	341.3	361.2	402.6	436.6	446.5
60°	312.1	332.5	374.9	407.3	417.9
62.5°	279.6	303.7	347.7	379.5	387.4
65°	250.2	274.9	317.8	349.7	358.6
67.5°	219.4	246.0	289.0	318.3	326.8
70°	190.1	217.8	259.2	286.4	290.0
72.5°	158.7	186.9	228.7	246.0	246.0
75°	130.3	159.1	197.9	201.1	198.5
77.5°	99.5	131.5	156.5	150.2	144.0
80°	71.8	103.2	114.6	103.2	94.7
82.5°	48.1	74.8	69.0	54.9	48.7
85°	26.7	39.8	27.2	15.1	11.0
87.5°	9.9	8.9	2.6	2.6	2.6
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)