

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: P732683

Luminaire Tested: **14FCZ2-29-B2750-W2D-CP375-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732683  
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-CP375-3500K  
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND RIBBED LENS, WITH, CP375 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

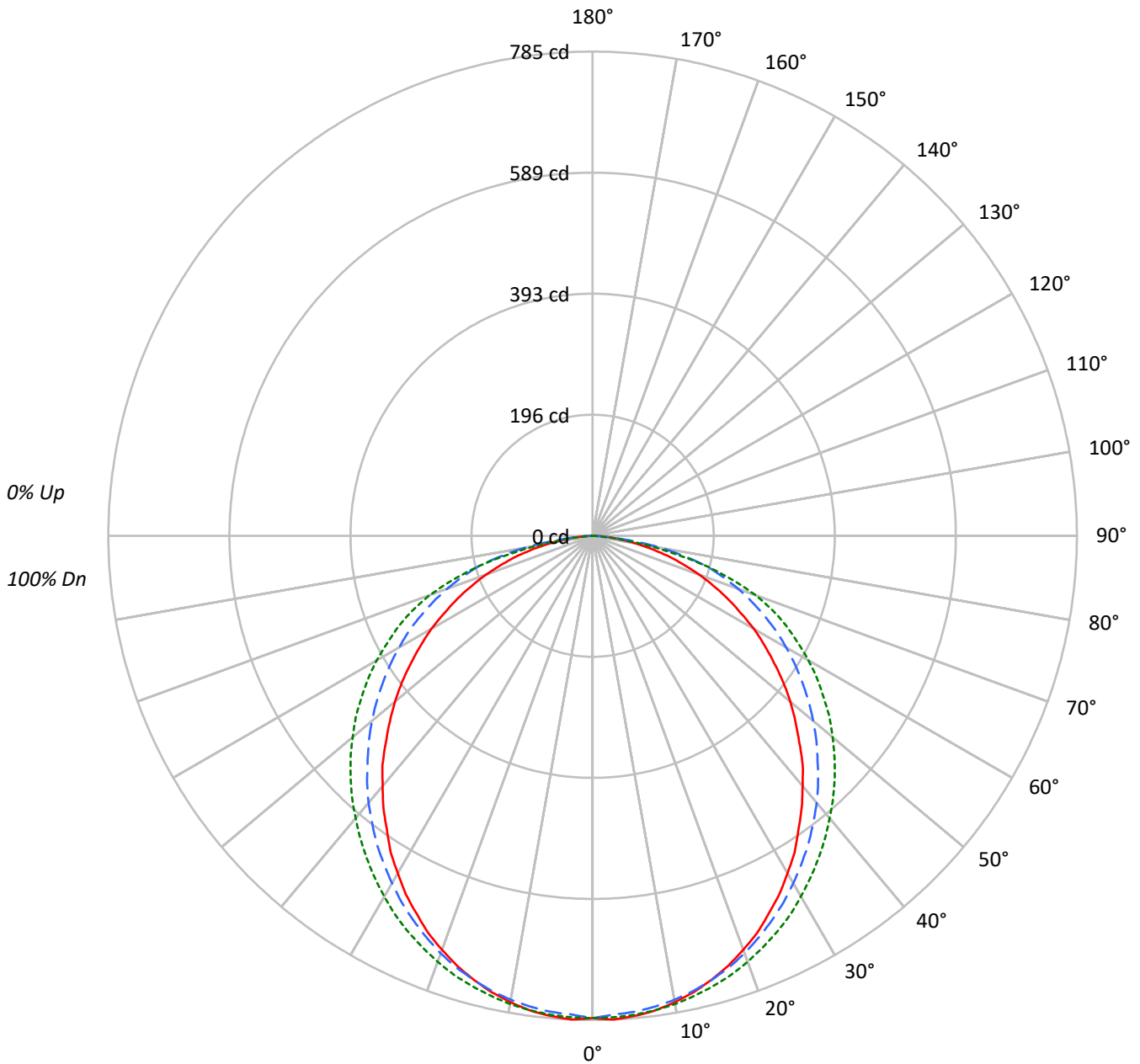
Lumens per Lamp: N/A  
Luminaire Lumens: 2270.0 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 23  
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	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°	2207	2207	2207
5°	2214	2196	2209
10°	2201	2189	2210
15°	2177	2179	2208
20°	2145	2164	2208
25°	2104	2142	2206
30°	2059	2120	2201
35°	2004	2102	2199
40°	1951	2082	2203
45°	1891	2059	2215
50°	1836	2049	2229
55°	1766	2043	2249
60°	1703	2046	2281
65°	1616	2052	2316
70°	1517	2068	2314
75°	1374	2086	2093
80°	1128	1801	1489
85°	836	852	343



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.0	3.3
10°-20°	211.4	9.3
20°-30°	318.4	14.0
30°-40°	382.1	16.8
40°-50°	398.3	17.5
50°-60°	368.7	16.2
60°-70°	297.9	13.1
70°-80°	181.6	8.0
80°-90°	37.5	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°	603.8	26.6
0°-40°	986.0	43.4
0°-60°	1752.9	77.2
0°-90°	2270.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2270.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	782	782	782	782	782	
5°	782	780	775	780	780	74
15°	745	746	746	756	756	210
25°	676	680	688	705	708	311
35°	582	591	610	632	638	364
45°	474	488	516	545	555	366
55°	359	378	415	448	457	322
65°	242	266	307	338	347	239
75°	126	154	191	194	192	132
85°	26	38	26	15	11	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	782.0	782.0	782.0	782.0	782.0
2.5°	785.1	782.6	777.0	782.6	781.5
5°	781.5	779.5	774.9	780.5	779.5
7.5°	776.5	774.4	770.3	777.0	775.9
10°	767.8	766.8	763.8	771.4	770.9
12.5°	757.8	757.2	755.7	764.3	763.8
15°	745.1	745.5	745.5	755.7	755.7
17.5°	730.9	731.9	734.0	745.1	746.6
20°	714.2	716.3	720.3	733.0	734.9
22.5°	697.0	698.6	704.6	719.7	721.8
25°	675.7	679.8	687.8	705.1	708.2
27.5°	655.5	659.0	670.1	687.8	693.0
30°	631.7	637.2	650.5	669.7	675.3
32.5°	609.0	615.0	630.1	652.4	657.5
35°	581.6	590.7	609.9	632.2	638.2
37.5°	556.8	565.3	587.2	611.5	618.6
40°	529.4	540.1	564.9	590.7	597.8
42.5°	504.2	514.2	541.1	567.4	577.0
45°	473.8	488.0	515.7	544.6	554.8
47.5°	445.9	460.1	492.0	522.8	532.0
50°	418.1	433.2	466.7	498.6	507.7
52.5°	389.2	405.5	441.3	473.2	484.0
55°	358.8	377.6	415.1	447.5	457.1
57.5°	330.0	349.2	389.2	422.1	431.7
60°	301.7	321.5	362.5	393.8	404.0
62.5°	270.3	293.6	336.1	366.9	374.6
65°	241.9	265.7	307.3	338.1	346.7
67.5°	212.1	237.9	279.4	307.7	315.9
70°	183.8	210.6	250.6	276.9	280.4
72.5°	153.4	180.7	221.1	237.9	237.9
75°	126.0	153.8	191.3	194.4	191.9
77.5°	96.2	127.1	151.3	145.2	139.2
80°	69.4	99.8	110.8	99.8	91.6
82.5°	46.5	72.3	66.7	53.1	47.1
85°	25.8	38.5	26.3	14.6	10.6
87.5°	9.6	8.6	2.5	2.5	2.5
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)