

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: P732506

Luminaire Tested: **14FCZ2-20-S-B2750-W2D-CP375-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732506  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275670)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-20-S-B2750-W2D-CP375-2700K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND SMOOTH LENS, WITH, CP375 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

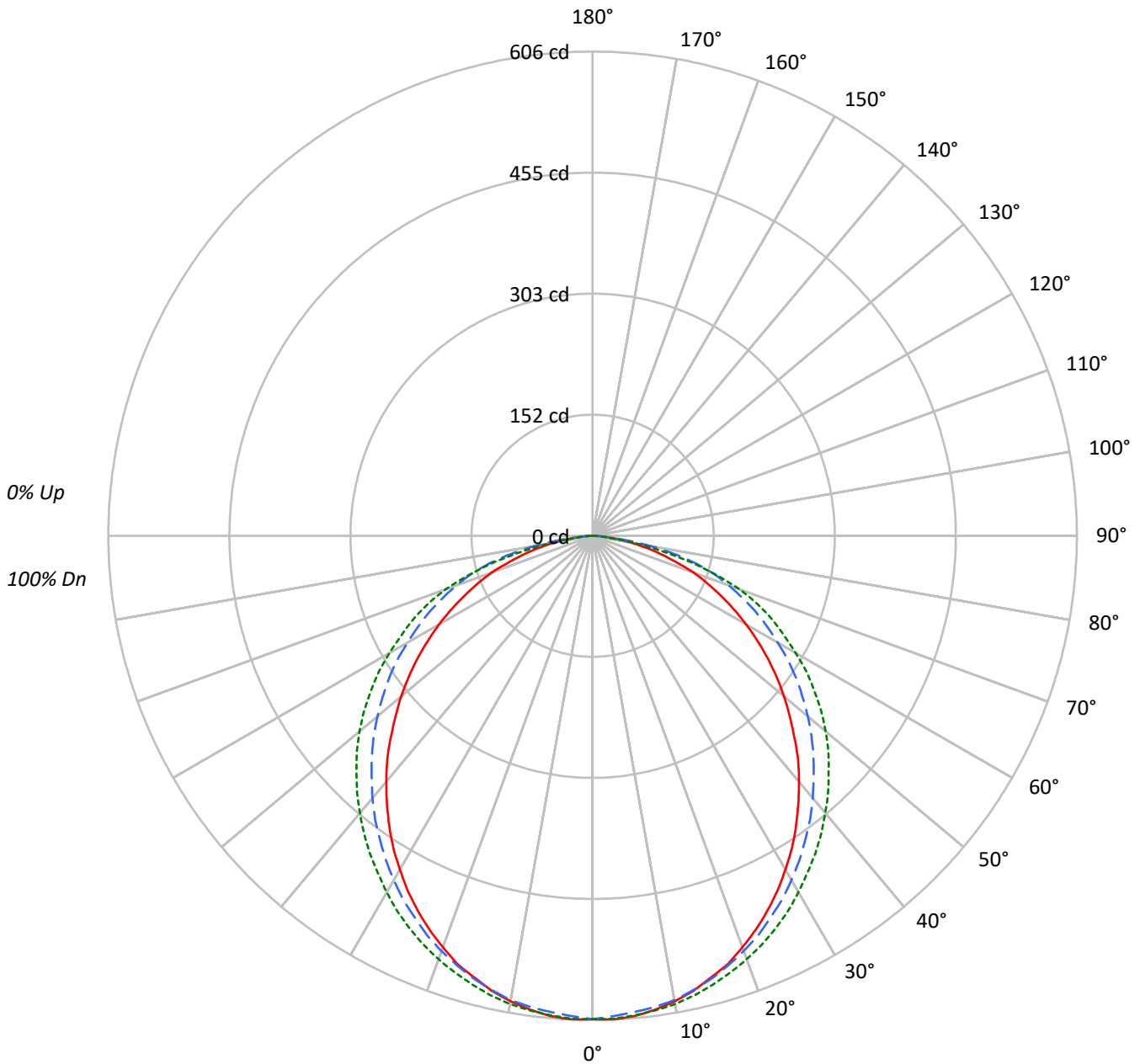
Lumens per Lamp: N/A  
Luminaire Lumens: 1695.0 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 16  
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									
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	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84																			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70																			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58																			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43																			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27																			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1708	1708	1708
5°	1710	1696	1707
10°	1696	1691	1705
15°	1672	1677	1699
20°	1646	1661	1694
25°	1612	1641	1688
30°	1572	1622	1679
35°	1529	1599	1674
40°	1480	1579	1669
45°	1425	1560	1667
50°	1373	1543	1672
55°	1315	1530	1667
60°	1253	1508	1656
65°	1179	1504	1656
70°	1110	1491	1609
75°	963	1458	1374
80°	779	1175	915
85°	518	408	272



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.1	3.4
10°-20°	162.6	9.6
20°-30°	243.9	14.4
30°-40°	290.9	17.2
40°-50°	300.8	17.7
50°-60°	274.6	16.2
60°-70°	216.1	12.7
70°-80°	125.8	7.4
80°-90°	23.2	1.4
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°	463.6	27.4
0°-40°	754.5	44.5
0°-60°	1329.9	78.5
0°-90°	1695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1695.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	605	605	605	605	605	
5°	603	602	598	603	602	57
15°	572	573	574	582	582	161
25°	518	520	527	540	542	238
35°	444	450	464	482	486	277
45°	357	369	391	413	418	276
55°	267	282	311	334	339	239
65°	176	195	225	243	248	175
75°	88	109	134	131	126	94
85°	16	23	13	10	8	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	605.1	605.1	605.1	605.1	605.1
2.5°	605.9	604.3	601.7	605.9	605.1
5°	603.4	601.7	598.4	603.4	602.5
7.5°	598.4	596.6	595.0	600.0	599.2
10°	591.6	590.8	590.0	595.8	595.0
12.5°	583.3	583.3	582.4	589.1	589.1
15°	572.3	573.2	574.0	581.5	581.5
17.5°	562.3	561.4	563.9	572.3	573.2
20°	547.9	549.6	553.0	563.1	563.9
22.5°	533.6	535.4	541.2	551.3	553.8
25°	517.7	520.2	526.9	539.5	542.1
27.5°	500.9	504.3	513.4	526.9	529.4
30°	482.3	487.4	497.5	512.6	515.2
32.5°	463.9	469.0	481.5	496.7	500.1
35°	443.7	449.6	463.9	481.5	485.7
37.5°	422.7	430.2	447.1	464.7	469.8
40°	401.7	410.2	428.6	447.1	453.0
42.5°	380.7	389.1	409.2	430.2	436.2
45°	357.1	369.0	390.8	412.6	417.7
47.5°	334.5	347.1	371.4	393.3	400.1
50°	312.6	325.2	351.3	374.0	380.7
52.5°	290.0	303.4	331.1	354.7	360.5
55°	267.2	281.5	311.0	333.6	338.7
57.5°	244.6	259.7	290.0	311.8	317.7
60°	221.9	237.9	267.2	289.1	293.3
62.5°	199.2	215.9	246.2	265.6	269.8
65°	176.5	194.9	225.2	242.9	248.0
67.5°	154.7	173.1	202.6	219.3	223.6
70°	134.5	151.3	180.7	193.3	194.9
72.5°	109.3	130.3	158.8	165.6	161.4
75°	88.3	109.3	133.7	131.1	126.0
77.5°	67.2	88.3	104.2	95.8	89.1
80°	47.9	68.9	72.3	59.6	56.3
82.5°	31.1	47.9	40.4	31.1	25.2
85°	16.0	22.7	12.6	10.1	8.4
87.5°	5.0	3.4	1.6	1.6	0.8
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)