

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: P732432

Luminaire Tested: **14FCZ2-20-B2750-W2D-CP375-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732432  
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: 14FCZ2-20-B2750-W2D-CP375-3000K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND RIBBED LENS, WITH, CP375 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

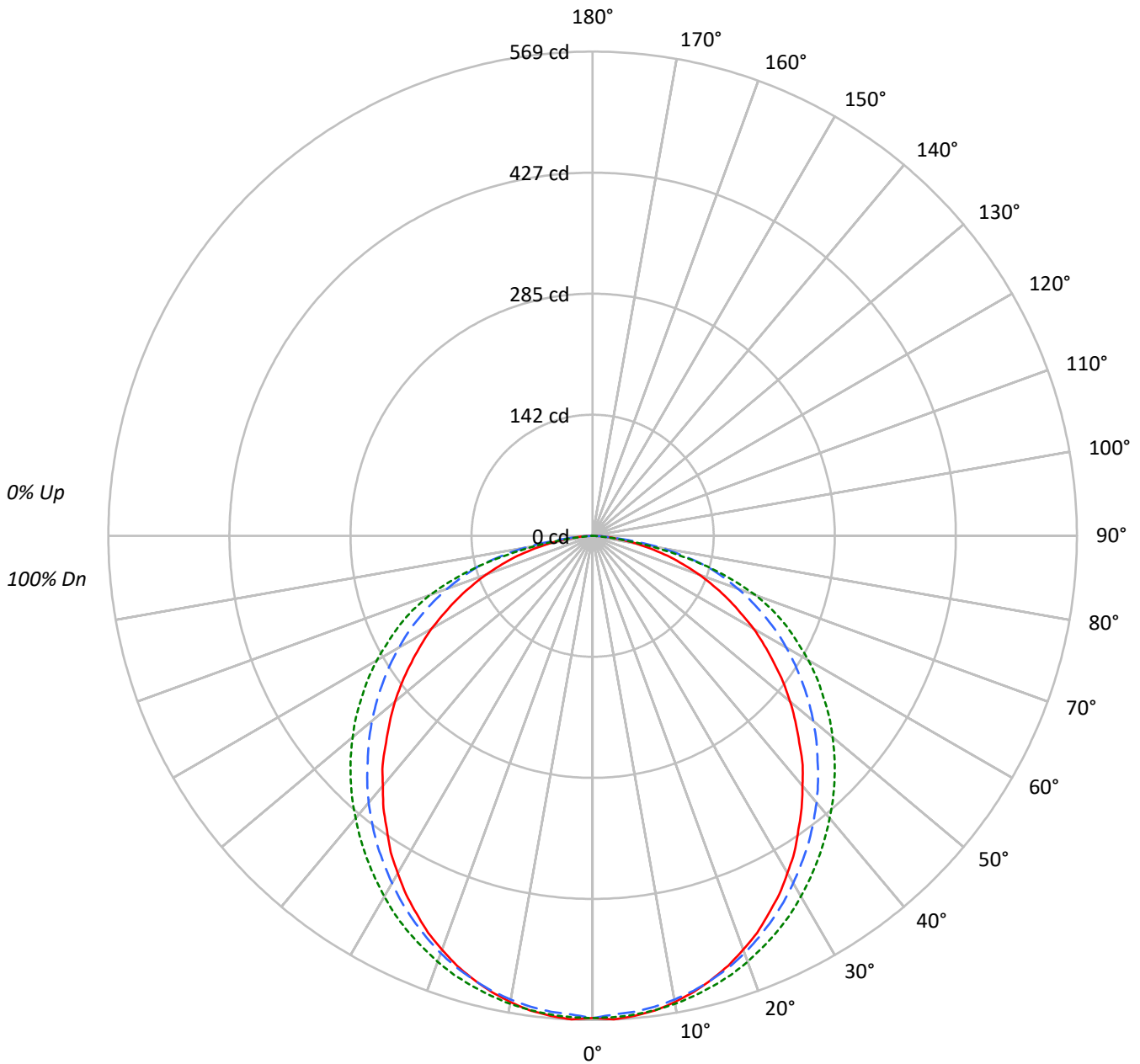
Lumens per Lamp: N/A  
Luminaire Lumens: 1645.0 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P732432

CATALOG NUMBER: 14FCZ2-20-B2750-W2D-CP375-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P732432

CATALOG NUMBER: 14FCZ2-20-B2750-W2D-CP375-3000K

**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°	1600	1600	1600
5°	1605	1591	1601
10°	1595	1586	1601
15°	1578	1579	1600
20°	1554	1568	1600
25°	1525	1553	1598
30°	1492	1536	1595
35°	1452	1523	1594
40°	1413	1509	1596
45°	1370	1492	1605
50°	1330	1485	1616
55°	1280	1480	1630
60°	1234	1483	1652
65°	1171	1487	1678
70°	1099	1499	1677
75°	996	1512	1517
80°	818	1305	1078
85°	606	619	249



TEST NUMBER: P732432

CATALOG NUMBER: 14FCZ2-20-B2750-W2D-CP375-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.6	3.3
10°-20°	153.2	9.3
20°-30°	230.8	14.0
30°-40°	276.9	16.8
40°-50°	288.6	17.5
50°-60°	267.2	16.2
60°-70°	215.9	13.1
70°-80°	131.6	8.0
80°-90°	27.2	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°	437.6	26.6
0°-40°	714.5	43.4
0°-60°	1270.3	77.2
0°-90°	1645.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1645.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	567	567	567	567	567	
5°	566	565	562	566	565	54
15°	540	540	540	548	548	152
25°	490	493	498	511	513	226
35°	422	428	442	458	462	264
45°	343	354	374	395	402	265
55°	260	274	301	324	331	233
65°	175	193	223	245	251	173
75°	91	112	139	141	139	96
85°	19	28	19	11	8	23
90°	0	0	0	0	0	



TEST NUMBER: P732432

CATALOG NUMBER: 14FCZ2-20-B2750-W2D-CP375-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	566.7	566.7	566.7	566.7	566.7
2.5°	568.9	567.1	563.1	567.1	566.3
5°	566.3	564.9	561.6	565.6	564.9
7.5°	562.7	561.2	558.2	563.1	562.3
10°	556.4	555.7	553.5	559.0	558.6
12.5°	549.1	548.7	547.6	553.9	553.5
15°	540.0	540.3	540.3	547.6	547.6
17.5°	529.7	530.4	531.9	540.0	541.1
20°	517.5	519.1	522.0	531.2	532.6
22.5°	505.1	506.2	510.6	521.6	523.1
25°	489.7	492.6	498.5	511.0	513.2
27.5°	475.0	477.5	485.6	498.5	502.2
30°	457.8	461.8	471.4	485.3	489.4
32.5°	441.3	445.6	456.6	472.8	476.4
35°	421.5	428.1	442.0	458.2	462.5
37.5°	403.5	409.7	425.5	443.1	448.3
40°	383.6	391.4	409.4	428.1	433.2
42.5°	365.4	372.6	392.1	411.2	418.2
45°	343.3	353.6	373.7	394.6	402.0
47.5°	323.1	333.4	356.6	378.9	385.6
50°	302.9	314.0	338.2	361.3	367.9
52.5°	282.0	293.9	319.8	342.9	350.7
55°	260.0	273.7	300.8	324.3	331.2
57.5°	239.1	253.1	282.0	305.9	312.8
60°	218.6	233.0	262.7	285.4	292.7
62.5°	195.9	212.8	243.6	265.9	271.4
65°	175.3	192.6	222.7	245.0	251.2
67.5°	153.7	172.4	202.5	223.0	228.9
70°	133.2	152.6	181.6	200.7	203.2
72.5°	111.2	131.0	160.3	172.4	172.4
75°	91.3	111.5	138.6	140.9	139.1
77.5°	69.7	92.1	109.7	105.2	100.9
80°	50.3	72.3	80.3	72.3	66.3
82.5°	33.7	52.4	48.4	38.5	34.1
85°	18.7	27.9	19.1	10.6	7.7
87.5°	7.0	6.3	1.8	1.8	1.8
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)