

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: P732532

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732532  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387389)  
Test Lab: INNOVATIONS CENTER(G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-20-SQR-B2750-W2D-CP375-3000K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND SQR LENS, WITH, CP375 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

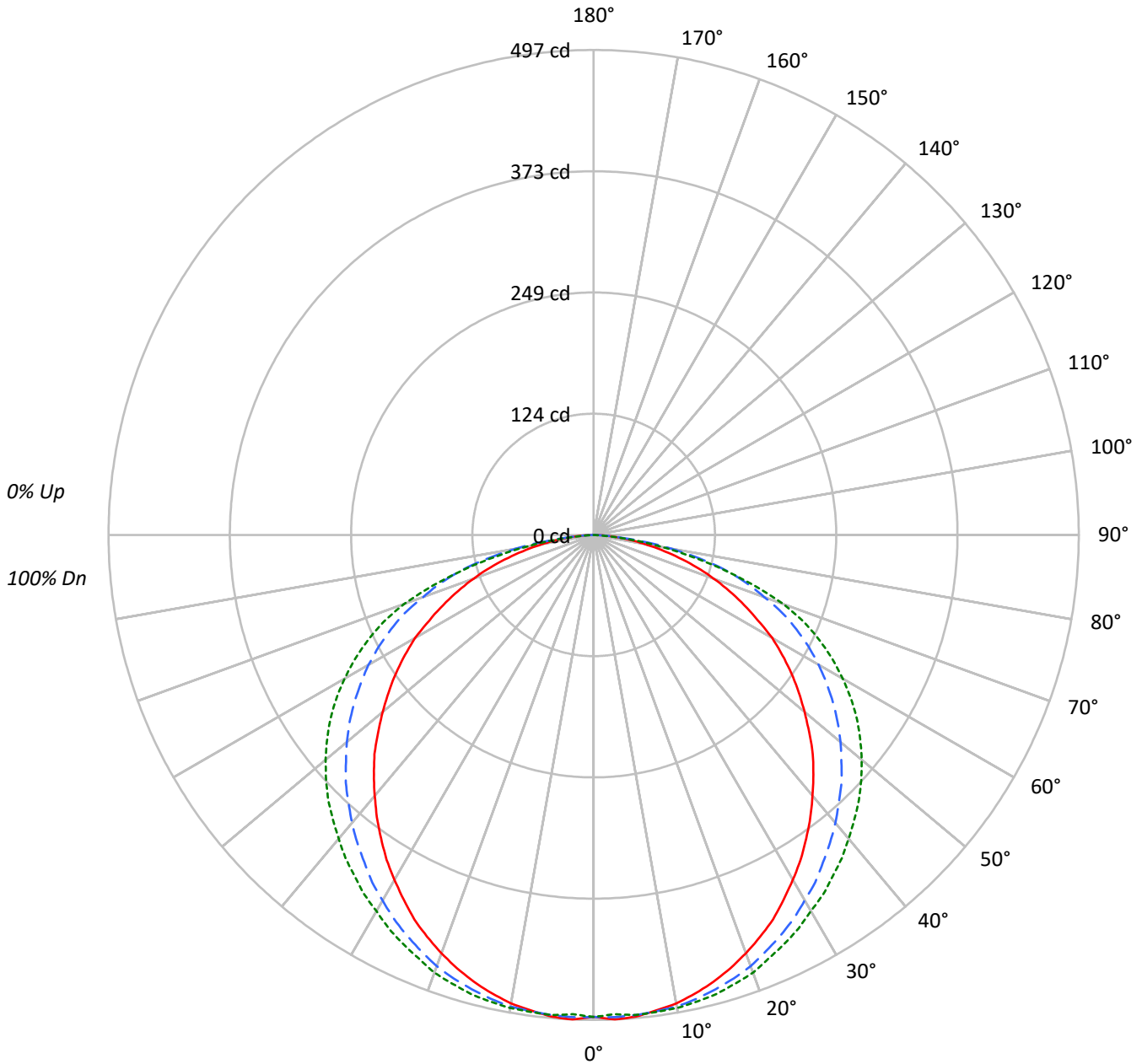
Lumens per Lamp: N/A  
Luminaire Lumens: 1563.0 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 16  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48																			
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41																			
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35																			
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

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

	0°	45°	90°
0°	1394	1394	1394
5°	1404	1400	1400
10°	1398	1407	1411
15°	1386	1409	1423
20°	1370	1413	1434
25°	1354	1411	1440
30°	1330	1410	1451
35°	1308	1411	1471
40°	1286	1419	1497
45°	1267	1434	1534
50°	1238	1449	1574
55°	1217	1473	1621
60°	1192	1503	1663
65°	1137	1531	1705
70°	1079	1534	1703
75°	988	1529	1503
80°	845	1305	1165
85°	664	738	434



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.9	3.0
10°-20°	135.6	8.7
20°-30°	207.4	13.3
30°-40°	254.2	16.3
40°-50°	273.4	17.5
50°-60°	262.7	16.8
60°-70°	218.7	14.0
70°-80°	134.3	8.6
80°-90°	29.9	1.9
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°	389.9	24.9
0°-40°	644.1	41.2
0°-60°	1180.1	75.5
0°-90°	1563.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1563.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	494	494	494	494	494	
5°	496	491	494	494	494	47
15°	474	473	482	485	487	134
25°	435	439	453	458	462	200
35°	380	389	410	421	427	238
45°	318	332	359	376	384	244
55°	247	269	299	320	329	221
65°	170	196	229	248	255	169
75°	91	118	140	140	138	96
85°	20	31	23	16	13	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	494.0	494.0	494.0	494.0	494.0
2.5°	497.0	492.3	494.7	494.0	491.6
5°	495.5	490.8	494.0	494.0	494.0
7.5°	491.6	487.6	492.3	493.1	493.1
10°	487.6	484.5	490.8	491.6	492.3
12.5°	481.3	478.9	486.9	488.4	489.9
15°	474.2	472.7	482.1	485.2	486.9
17.5°	465.6	466.4	476.6	480.5	482.1
20°	456.1	458.5	470.3	474.2	477.4
22.5°	445.8	449.0	461.7	466.4	469.5
25°	434.8	438.7	452.9	458.5	462.4
27.5°	421.4	427.7	443.5	450.6	454.6
30°	408.1	415.2	432.5	441.1	445.1
32.5°	394.7	402.5	422.3	430.9	437.2
35°	379.7	389.2	409.6	420.6	427.0
37.5°	364.7	375.8	397.8	410.4	417.5
40°	348.9	360.8	385.2	399.4	406.4
42.5°	333.2	346.6	371.8	387.6	395.4
45°	317.5	331.7	359.2	375.8	384.4
47.5°	299.4	316.7	344.2	363.1	371.8
50°	282.0	300.9	330.0	349.8	358.4
52.5°	264.7	284.4	315.1	335.6	344.2
55°	247.3	268.6	299.4	319.8	329.3
57.5°	229.2	251.2	282.8	304.1	312.7
60°	211.1	234.0	266.3	285.9	294.6
62.5°	189.8	216.6	248.2	267.8	275.7
65°	170.2	196.1	229.2	248.2	255.3
67.5°	150.5	177.2	209.5	226.9	233.1
70°	130.8	157.6	185.9	202.5	206.4
72.5°	111.1	137.8	164.7	174.1	172.5
75°	90.6	118.2	140.2	139.5	137.8
77.5°	70.9	97.7	111.1	105.5	103.2
80°	52.0	78.0	80.3	74.9	71.7
82.5°	35.5	55.9	50.4	44.1	40.9
85°	20.5	30.7	22.8	15.7	13.4
87.5°	8.6	7.9	2.4	2.4	1.5
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)