

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: P734163

Luminaire Tested: **24FCZ2-35-B2750-W2D-CA08-3500K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P734163  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272053)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24FCZ2-35-B2750-W2D-CA08-3500K  
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

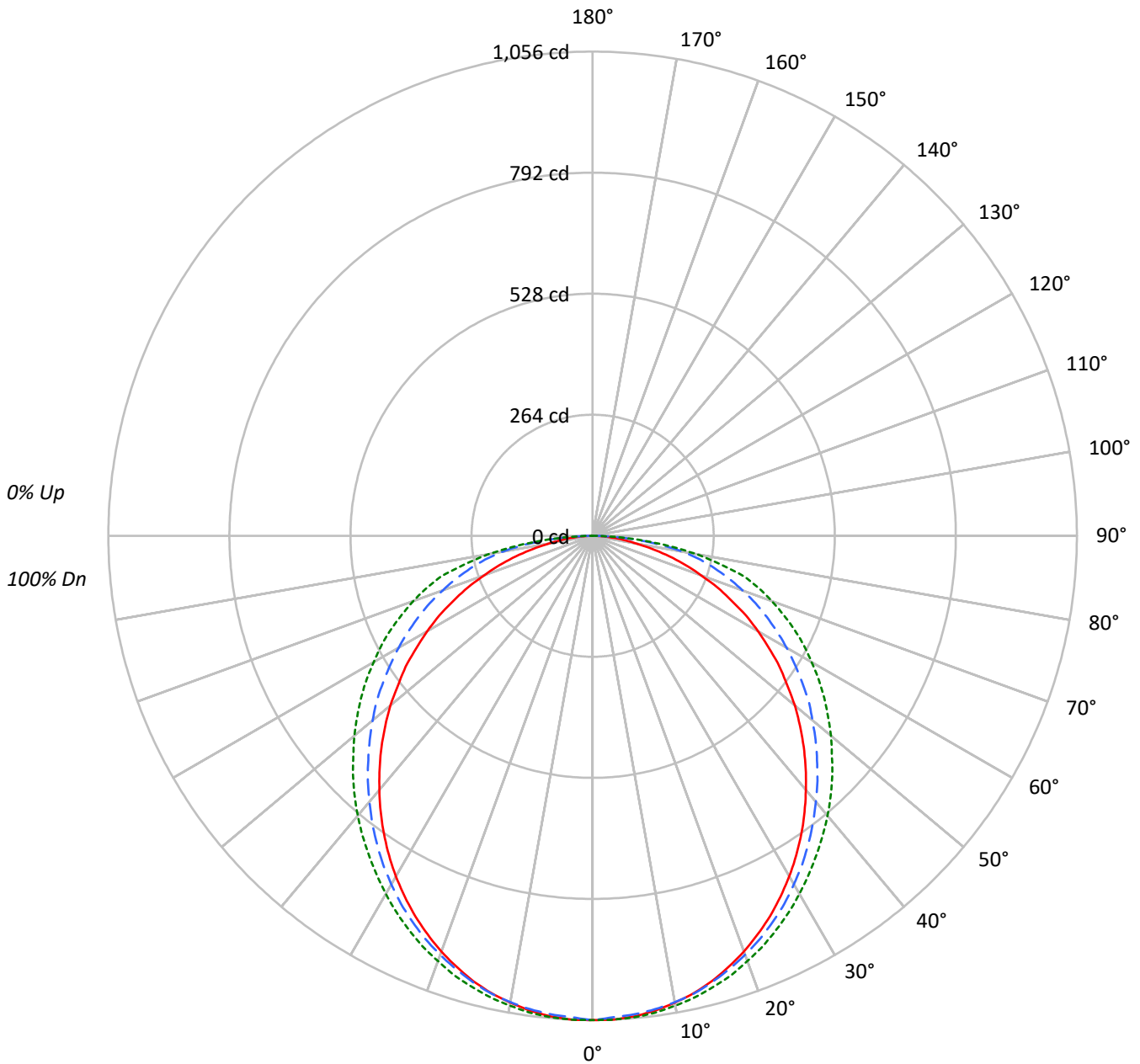
Lumens per Lamp: N/A  
Luminaire Lumens: 3146.0 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56																			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36																			
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25																			
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23																			

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

	0°	45°	90°
0°	1491	1491	1491
5°	1490	1484	1494
10°	1482	1481	1491
15°	1470	1473	1488
20°	1449	1460	1482
25°	1426	1447	1476
30°	1398	1430	1470
35°	1367	1413	1465
40°	1333	1395	1468
45°	1299	1381	1475
50°	1263	1374	1489
55°	1225	1372	1516
60°	1177	1378	1556
65°	1115	1399	1623
70°	1035	1434	1716
75°	944	1506	1861
80°	776	1621	1860
85°	594	1496	1598



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.9	3.2
10°-20°	285.2	9.1
20°-30°	429.2	13.6
30°-40°	514.3	16.3
40°-50°	536.0	17.0
50°-60°	498.7	15.9
60°-70°	410.7	13.1
70°-80°	279.7	8.9
80°-90°	92.4	2.9
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°	814.3	25.9
0°-40°	1328.6	42.2
0°-60°	2363.2	75.1
0°-90°	3146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3146.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1052	1052	1048	1053	1054	100
15°	1006	1007	1008	1018	1018	283
25°	916	920	929	945	948	421
35°	794	803	820	842	850	496
45°	651	665	692	726	739	502
55°	498	514	558	602	616	444
65°	334	362	419	468	486	331
75°	173	212	276	326	341	183
85°	37	71	92	99	99	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1056.3	1056.3	1056.3	1056.3	1056.3
2.5°	1056.3	1056.3	1051.0	1056.3	1056.3
5°	1052.0	1052.0	1047.8	1053.1	1054.2
7.5°	1044.7	1045.8	1041.6	1047.8	1049.0
10°	1034.2	1035.3	1033.1	1039.5	1040.5
12.5°	1021.6	1022.6	1022.6	1030.0	1031.1
15°	1005.8	1007.0	1008.0	1017.5	1018.5
17.5°	985.9	989.1	991.1	1002.8	1004.8
20°	964.9	968.1	972.3	984.8	987.0
22.5°	940.8	944.9	952.3	966.0	969.1
25°	915.6	919.8	929.3	944.9	948.1
27.5°	887.2	893.6	905.1	921.9	926.1
30°	857.9	864.1	877.7	895.6	901.9
32.5°	826.4	834.7	850.4	870.4	876.7
35°	793.7	803.2	820.0	842.1	850.4
37.5°	759.2	769.7	789.5	813.7	824.2
40°	723.5	736.0	757.0	785.4	796.9
42.5°	687.7	699.3	725.5	756.0	768.5
45°	651.0	664.6	692.0	726.5	739.2
47.5°	613.1	626.8	659.3	696.1	707.7
50°	575.4	589.1	625.8	664.6	678.3
52.5°	534.4	552.3	594.3	633.1	646.8
55°	497.7	514.4	557.6	601.6	616.3
57.5°	455.7	475.6	522.9	569.1	584.8
60°	416.9	437.9	488.2	535.4	551.2
62.5°	377.0	400.0	453.6	501.9	519.7
65°	333.8	362.2	418.9	468.2	486.1
67.5°	295.0	324.5	384.3	434.7	450.4
70°	250.9	286.6	347.5	398.0	415.8
72.5°	213.1	248.8	312.8	362.2	380.0
75°	173.2	212.1	276.1	325.5	341.2
77.5°	133.4	176.4	240.4	278.3	283.5
80°	95.5	140.7	199.4	221.6	228.9
82.5°	67.2	108.2	147.1	161.7	165.9
85°	36.7	71.4	92.4	98.7	98.7
87.5°	15.7	30.5	36.7	37.8	38.9
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)