

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: P734162

Luminaire Tested: **24FCZ2-35-B2750-W2D-CA08-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734162  
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-CA08-3000K  
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND RIBBED LENS, WITH, CA08 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

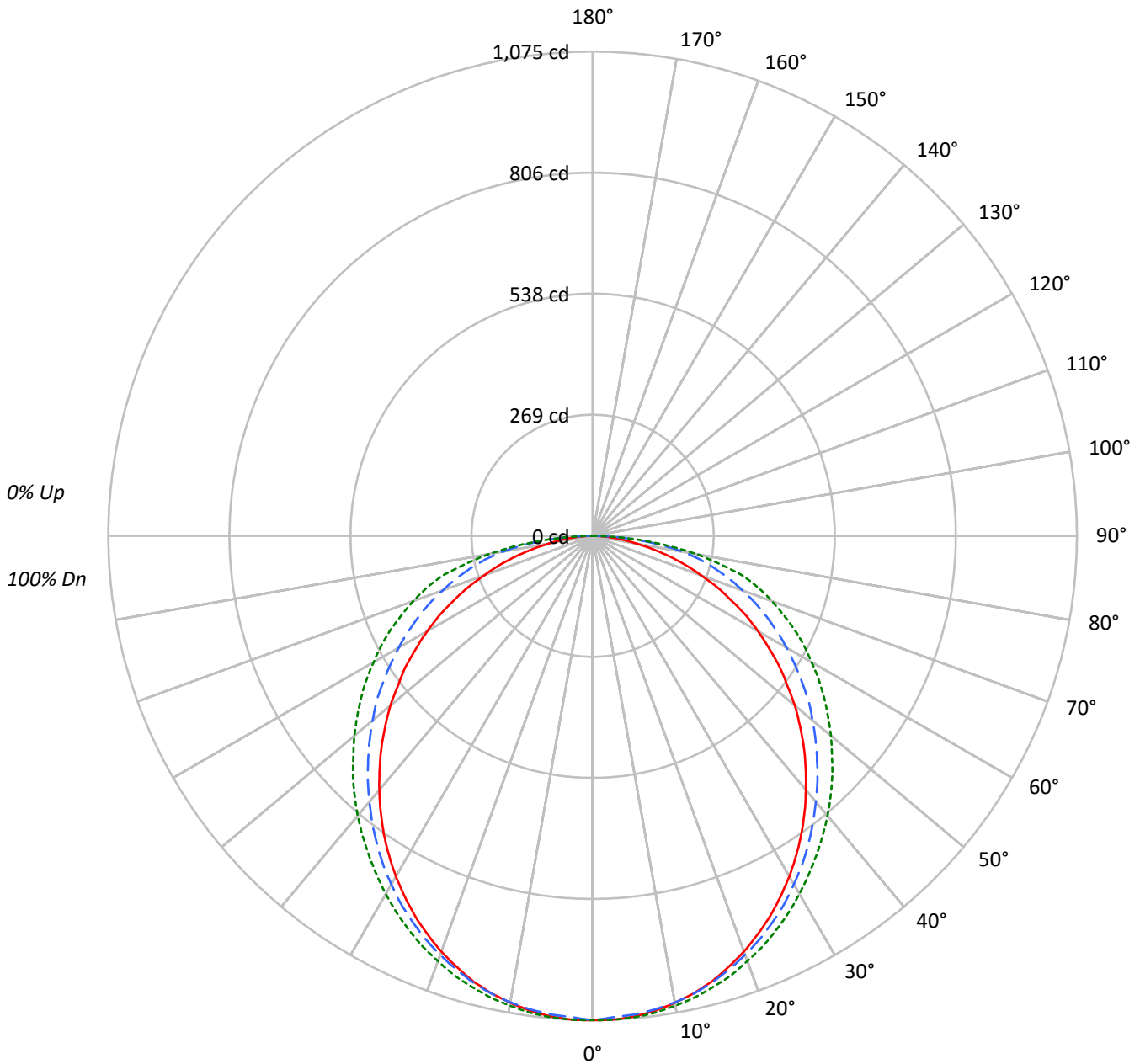
Lumens per Lamp: N/A  
Luminaire Lumens: 3203.0 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1518	1518	1518
5°	1517	1511	1521
10°	1509	1507	1518
15°	1496	1499	1515
20°	1475	1487	1509
25°	1452	1473	1503
30°	1423	1456	1497
35°	1392	1438	1492
40°	1357	1420	1495
45°	1323	1406	1502
50°	1286	1399	1516
55°	1247	1397	1544
60°	1198	1403	1584
65°	1135	1424	1653
70°	1054	1460	1747
75°	962	1533	1894
80°	791	1651	1895
85°	606	1524	1627



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.7	3.2
10°-20°	290.4	9.1
20°-30°	437.0	13.6
30°-40°	523.6	16.3
40°-50°	545.7	17.0
50°-60°	507.7	15.9
60°-70°	418.1	13.1
70°-80°	284.8	8.9
80°-90°	94.0	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°	829.0	25.9
0°-40°	1352.7	42.2
0°-60°	2406.1	75.1
0°-90°	3203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3203.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1075	1075	1075	1075	1075	
5°	1071	1071	1067	1072	1073	102
15°	1024	1025	1026	1036	1037	289
25°	932	936	946	962	965	429
35°	808	818	835	857	866	505
45°	663	677	704	740	753	511
55°	507	524	568	612	628	452
65°	340	369	426	477	495	337
75°	176	216	281	331	347	186
85°	37	73	94	100	100	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1075.4	1075.4	1075.4	1075.4	1075.4
2.5°	1075.4	1075.4	1070.0	1075.4	1075.4
5°	1071.1	1071.1	1066.8	1072.2	1073.3
7.5°	1063.6	1064.8	1060.5	1066.8	1068.0
10°	1052.9	1054.1	1051.9	1058.3	1059.3
12.5°	1040.1	1041.2	1041.2	1048.6	1049.8
15°	1024.0	1025.2	1026.2	1035.9	1036.9
17.5°	1003.8	1007.0	1009.1	1020.9	1023.0
20°	982.4	985.6	989.9	1002.6	1004.8
22.5°	957.8	962.1	969.5	983.5	986.7
25°	932.2	936.4	946.1	962.1	965.3
27.5°	903.3	909.8	921.5	938.6	942.9
30°	873.4	879.7	893.6	911.8	918.3
32.5°	841.3	849.8	865.8	886.2	892.6
35°	808.1	817.8	834.9	857.3	865.8
37.5°	772.9	783.6	803.8	828.5	839.1
40°	736.6	749.3	770.7	799.6	811.3
42.5°	700.1	712.0	738.7	769.7	782.5
45°	662.8	676.7	704.5	739.7	752.6
47.5°	624.2	638.2	671.3	708.8	720.5
50°	585.8	599.8	637.1	676.7	690.6
52.5°	544.1	562.3	605.0	644.6	658.5
55°	506.7	523.7	567.7	612.5	627.5
57.5°	464.0	484.2	532.4	579.4	595.4
60°	424.4	445.8	497.1	545.1	561.2
62.5°	383.8	407.3	461.8	511.0	529.2
65°	339.9	368.7	426.5	476.7	494.9
67.5°	300.3	330.4	391.3	442.6	458.5
70°	255.5	291.8	353.8	405.2	423.4
72.5°	217.0	253.3	318.5	368.7	386.9
75°	176.4	215.9	281.1	331.4	347.4
77.5°	135.8	179.6	244.8	283.3	288.6
80°	97.3	143.3	203.1	225.6	233.1
82.5°	68.4	110.2	149.7	164.7	168.9
85°	37.4	72.7	94.1	100.5	100.5
87.5°	16.0	31.1	37.4	38.5	39.6
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)