

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: P734170

Luminaire Tested: **24FCZ2-35-B2750-W2D-CA125-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734170  
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-CA125-5000K  
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND RIBBED LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

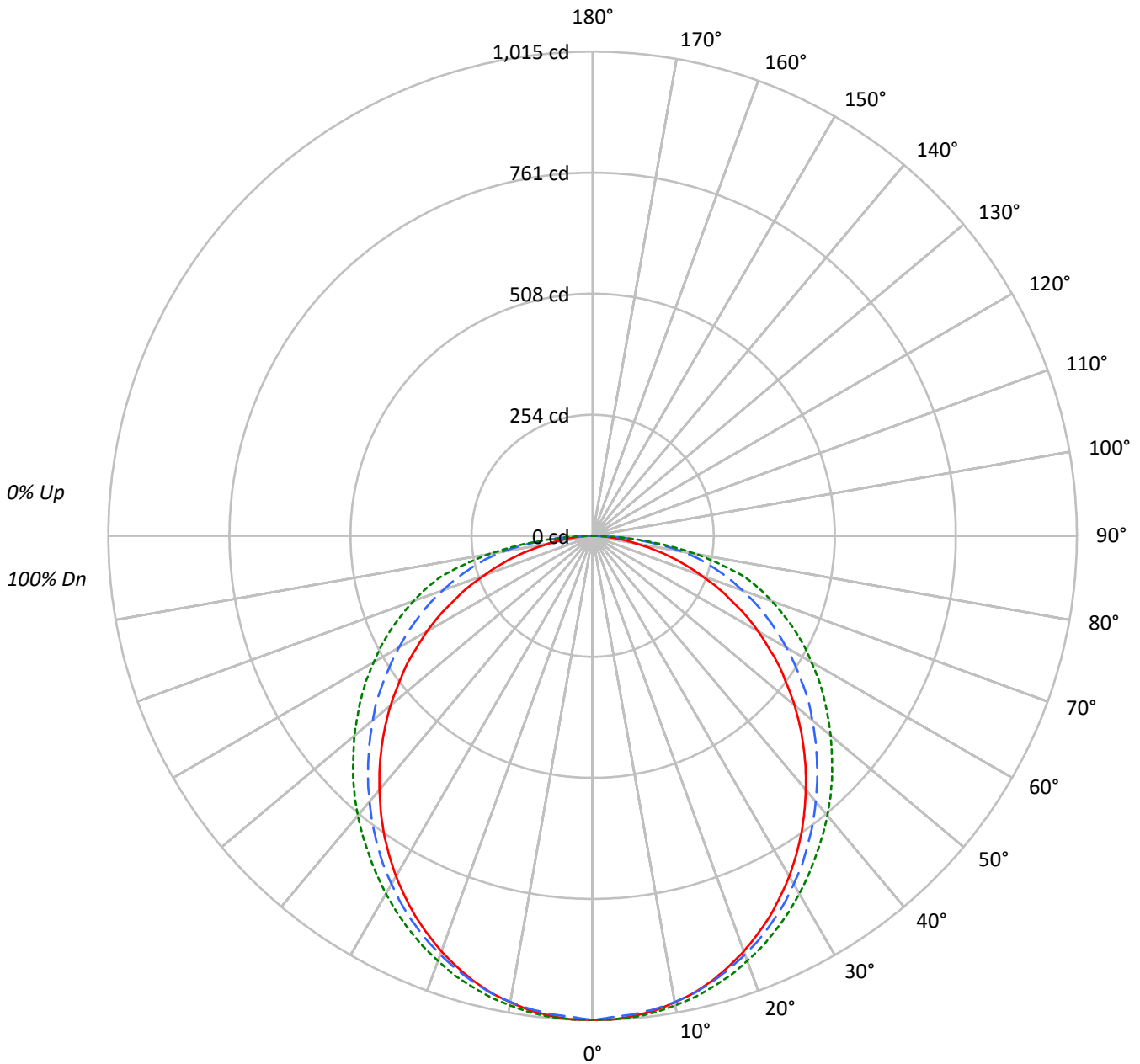
Lumens per Lamp: N/A  
Luminaire Lumens: 3022.0 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1432	1432	1432
5°	1432	1426	1435
10°	1424	1422	1432
15°	1412	1415	1429
20°	1392	1403	1424
25°	1370	1390	1418
30°	1343	1374	1412
35°	1314	1357	1407
40°	1280	1340	1410
45°	1248	1327	1417
50°	1214	1320	1431
55°	1176	1318	1457
60°	1130	1324	1495
65°	1071	1344	1559
70°	995	1377	1649
75°	907	1446	1787
80°	746	1557	1787
85°	572	1436	1535



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.0	3.2
10°-20°	274.0	9.1
20°-30°	412.3	13.6
30°-40°	494.0	16.3
40°-50°	514.8	17.0
50°-60°	479.0	15.9
60°-70°	394.5	13.1
70°-80°	268.7	8.9
80°-90°	88.7	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°	782.2	25.9
0°-40°	1276.2	42.2
0°-60°	2270.1	75.1
0°-90°	3022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3022.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1015	1015	1015	1015	1015	
5°	1010	1010	1006	1012	1013	96
15°	966	967	968	977	978	272
25°	880	884	893	908	911	405
35°	762	772	788	809	817	477
45°	625	638	665	698	710	482
55°	478	494	536	578	592	426
65°	321	348	402	450	467	318
75°	166	204	265	313	328	175
85°	35	69	89	95	95	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1014.7	1014.7	1014.7	1014.7	1014.7
2.5°	1014.7	1014.7	1009.6	1014.7	1014.7
5°	1010.5	1010.5	1006.5	1011.6	1012.6
7.5°	1003.5	1004.6	1000.6	1006.5	1007.6
10°	993.4	994.5	992.4	998.5	999.5
12.5°	981.4	982.3	982.3	989.4	990.5
15°	966.2	967.3	968.2	977.4	978.3
17.5°	947.1	950.1	952.1	963.3	965.2
20°	926.9	929.9	934.0	946.0	948.1
22.5°	903.7	907.7	914.7	927.9	930.9
25°	879.5	883.5	892.6	907.7	910.7
27.5°	852.3	858.3	869.4	885.6	889.6
30°	824.1	830.0	843.1	860.3	866.4
32.5°	793.8	801.8	816.9	836.1	842.2
35°	762.4	771.6	787.7	808.9	816.9
37.5°	729.2	739.3	758.4	781.6	791.7
40°	695.0	707.0	727.2	754.4	765.5
42.5°	660.6	671.7	696.9	726.2	738.2
45°	625.3	638.4	664.7	697.9	710.0
47.5°	589.0	602.1	633.3	668.7	679.8
50°	552.7	565.9	601.1	638.4	651.6
52.5°	513.4	530.5	570.9	608.2	621.3
55°	478.1	494.1	535.6	577.9	592.0
57.5°	437.7	456.8	502.3	546.7	561.7
60°	400.4	420.6	469.0	514.3	529.5
62.5°	362.1	384.3	435.7	482.1	499.3
65°	320.7	347.9	402.4	449.8	466.9
67.5°	283.4	311.7	369.2	417.6	432.6
70°	241.1	275.3	333.8	382.3	399.5
72.5°	204.7	239.0	300.5	347.9	365.0
75°	166.4	203.7	265.2	312.7	327.7
77.5°	128.1	169.5	231.0	267.3	272.3
80°	91.8	135.2	191.6	212.9	219.9
82.5°	64.5	103.9	141.3	155.4	159.4
85°	35.3	68.6	88.7	94.8	94.8
87.5°	15.1	29.3	35.3	36.3	37.3
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)