

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: P734169

Luminaire Tested: **24FCZ2-35-B2750-W2D-CA125-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734169  
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-CA125-4000K  
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND RIBBED LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

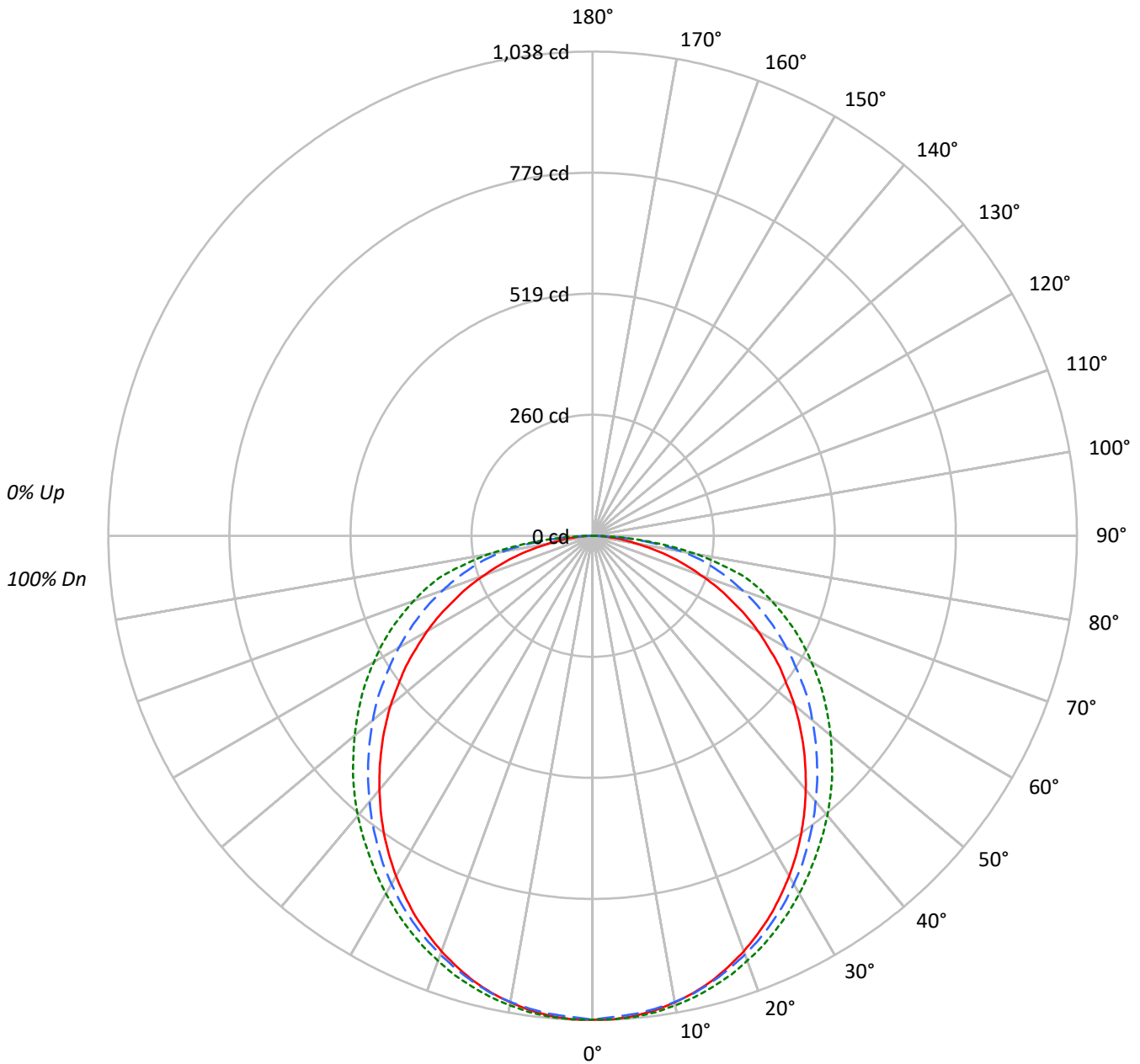
Lumens per Lamp: N/A  
Luminaire Lumens: 3090.0 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1464	1464	1464
5°	1464	1458	1467
10°	1456	1454	1465
15°	1443	1447	1462
20°	1424	1434	1456
25°	1400	1421	1450
30°	1373	1405	1444
35°	1343	1388	1439
40°	1309	1370	1442
45°	1276	1357	1449
50°	1241	1349	1463
55°	1203	1348	1489
60°	1156	1353	1528
65°	1095	1374	1594
70°	1017	1408	1685
75°	928	1479	1827
80°	762	1592	1828
85°	583	1469	1571



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.1	3.2
10°-20°	280.1	9.1
20°-30°	421.5	13.6
30°-40°	505.2	16.3
40°-50°	526.4	17.0
50°-60°	489.8	15.9
60°-70°	403.4	13.1
70°-80°	274.7	8.9
80°-90°	90.7	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°	799.8	25.9
0°-40°	1304.9	42.2
0°-60°	2321.2	75.1
0°-90°	3090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3090.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1038	1038	1038	1038	1038	
5°	1033	1033	1029	1034	1035	98
15°	988	989	990	999	1000	278
25°	899	903	913	928	931	414
35°	780	789	805	827	835	487
45°	639	653	680	714	726	493
55°	489	505	548	591	605	436
65°	328	356	411	460	477	326
75°	170	208	271	320	335	179
85°	36	70	91	97	97	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1037.5	1037.5	1037.5	1037.5	1037.5
2.5°	1037.5	1037.5	1032.3	1037.5	1037.5
5°	1033.3	1033.3	1029.2	1034.4	1035.4
7.5°	1026.1	1027.2	1023.1	1029.2	1030.3
10°	1015.8	1016.9	1014.8	1021.0	1022.0
12.5°	1003.4	1004.4	1004.4	1011.7	1012.8
15°	987.9	989.0	990.0	999.3	1000.3
17.5°	968.4	971.5	973.5	984.9	986.9
20°	947.8	950.9	955.0	967.3	969.4
22.5°	924.0	928.1	935.3	948.8	951.9
25°	899.3	903.4	912.7	928.1	931.2
27.5°	871.4	877.7	889.0	905.5	909.6
30°	842.6	848.7	862.1	879.6	885.9
32.5°	811.7	819.9	835.3	854.9	861.1
35°	779.6	788.9	805.4	827.1	835.3
37.5°	745.7	756.0	775.5	799.2	809.5
40°	710.6	722.9	743.5	771.4	782.7
42.5°	675.4	686.9	712.6	742.5	754.9
45°	639.4	652.8	679.7	713.6	726.0
47.5°	602.2	615.6	647.6	683.8	695.1
50°	565.2	578.6	614.6	652.8	666.2
52.5°	524.9	542.4	583.7	621.9	635.3
55°	488.9	505.3	547.7	590.9	605.3
57.5°	447.6	467.1	513.6	559.0	574.4
60°	409.4	430.1	479.5	525.9	541.4
62.5°	370.3	392.9	445.5	493.0	510.5
65°	327.9	355.7	411.4	459.9	477.4
67.5°	289.7	318.7	377.5	427.0	442.4
70°	246.5	281.5	341.3	390.9	408.4
72.5°	209.3	244.4	307.3	355.7	373.3
75°	170.2	208.3	271.2	319.7	335.1
77.5°	131.0	173.3	236.2	273.3	278.4
80°	93.8	138.2	195.9	217.6	224.9
82.5°	66.0	106.3	144.4	158.9	163.0
85°	36.0	70.1	90.7	97.0	97.0
87.5°	15.4	30.0	36.0	37.2	38.2
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)