

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: P734293

Luminaire Tested: **24FCZ2-35HE-B2750-W2D-CA125-3500K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P734293  
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: 24FCZ2-35HE-B2750-W2D-CA125-3500K  
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND RIBBED LENS, WITH, CA125 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

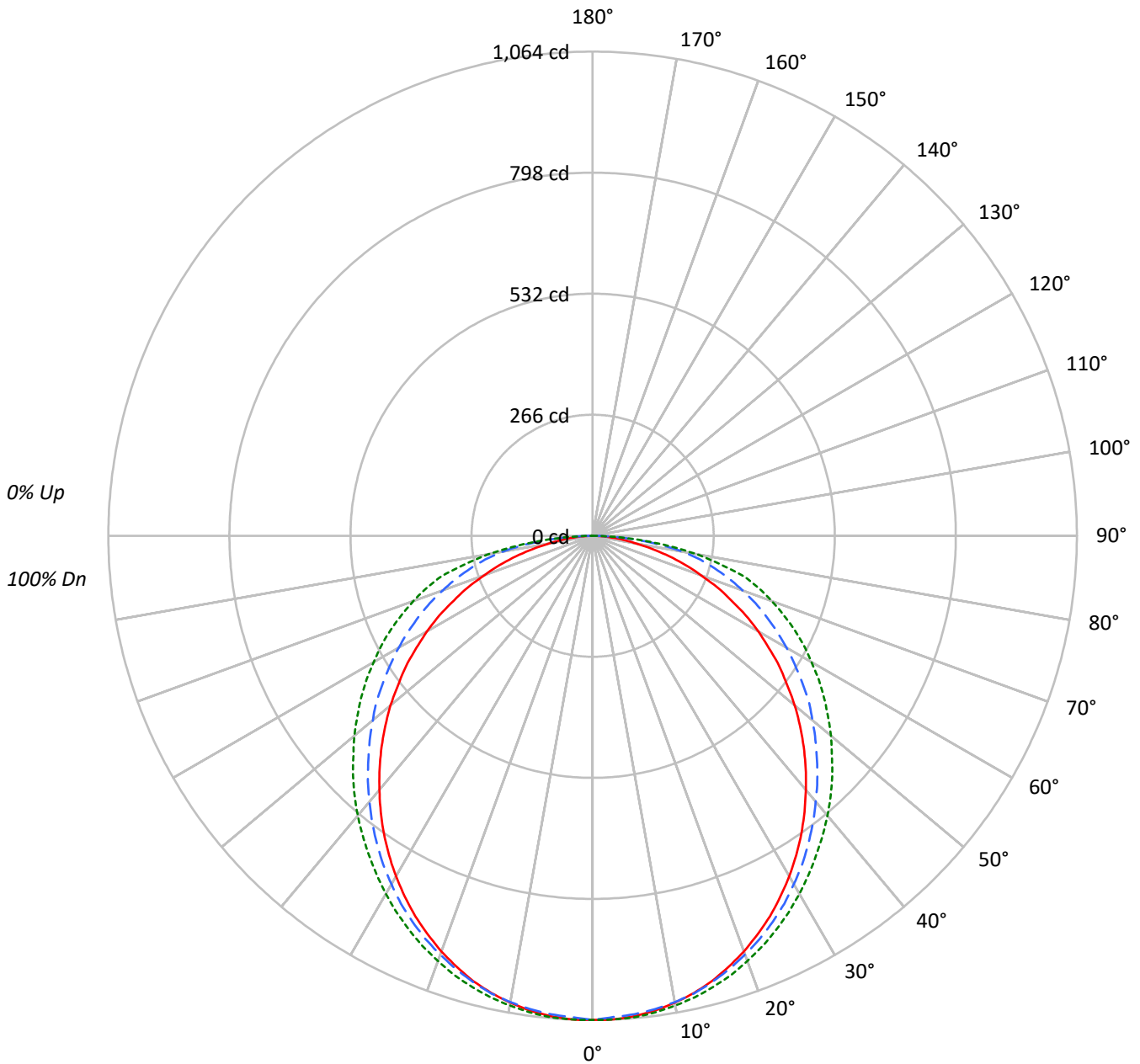
Lumens per Lamp: N/A  
Luminaire Lumens: 3169.0 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 26  
Input Voltage (V): NR  
Input Current (Ain): 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°	1502	1502	1502
5°	1501	1495	1504
10°	1493	1491	1502
15°	1480	1483	1499
20°	1460	1471	1493
25°	1436	1458	1487
30°	1408	1441	1481
35°	1377	1423	1476
40°	1343	1405	1479
45°	1309	1391	1486
50°	1273	1384	1500
55°	1234	1382	1528
60°	1185	1388	1567
65°	1123	1409	1635
70°	1043	1444	1729
75°	952	1516	1874
80°	782	1633	1874
85°	599	1508	1610



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.6	3.2
10°-20°	287.3	9.1
20°-30°	432.3	13.6
30°-40°	518.1	16.3
40°-50°	539.9	17.0
50°-60°	502.3	15.9
60°-70°	413.7	13.1
70°-80°	281.7	8.9
80°-90°	93.0	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°	820.2	25.9
0°-40°	1338.3	42.2
0°-60°	2380.5	75.1
0°-90°	3169.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3169.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1060	1060	1056	1061	1062	101
15°	1013	1014	1015	1025	1026	285
25°	922	926	936	952	955	425
35°	800	809	826	848	857	500
45°	656	670	697	732	745	506
55°	501	518	562	606	621	447
65°	336	365	422	472	490	334
75°	174	214	278	328	344	184
85°	37	72	93	99	99	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1064.0	1064.0	1064.0	1064.0	1064.0
2.5°	1064.0	1064.0	1058.7	1064.0	1064.0
5°	1059.7	1059.7	1055.5	1060.8	1061.9
7.5°	1052.3	1053.4	1049.2	1055.5	1056.6
10°	1041.7	1042.9	1040.7	1047.1	1048.1
12.5°	1029.1	1030.1	1030.1	1037.5	1038.7
15°	1013.2	1014.3	1015.3	1024.9	1025.9
17.5°	993.2	996.3	998.4	1010.1	1012.1
20°	972.0	975.2	979.4	992.0	994.2
22.5°	947.6	951.9	959.2	973.0	976.2
25°	922.3	926.5	936.0	951.9	955.0
27.5°	893.7	900.1	911.7	928.7	932.9
30°	864.1	870.4	884.2	902.1	908.5
32.5°	832.4	840.8	856.6	876.8	883.1
35°	799.5	809.1	826.0	848.2	856.6
37.5°	764.7	775.3	795.3	819.7	830.2
40°	728.8	741.4	762.6	791.1	802.7
42.5°	692.7	704.4	730.8	761.5	774.2
45°	655.7	669.5	697.0	731.8	744.6
47.5°	617.6	631.4	664.1	701.2	712.8
50°	579.6	593.4	630.4	669.5	683.3
52.5°	538.3	556.3	598.6	637.8	651.5
55°	501.4	518.2	561.7	606.0	620.8
57.5°	459.0	479.0	526.7	573.3	589.1
60°	419.9	441.1	491.8	539.3	555.3
62.5°	379.7	402.9	456.9	505.6	523.5
65°	336.3	364.8	421.9	471.7	489.6
67.5°	297.1	326.8	387.1	437.9	453.7
70°	252.8	288.7	350.0	400.9	418.9
72.5°	214.7	250.6	315.1	364.8	382.8
75°	174.5	213.6	278.1	327.9	343.7
77.5°	134.4	177.7	242.2	280.3	285.5
80°	96.2	141.8	200.9	223.2	230.6
82.5°	67.7	109.0	148.1	162.9	167.1
85°	37.0	71.9	93.1	99.4	99.4
87.5°	15.8	30.7	37.0	38.1	39.1
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)