

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: P734289

Luminaire Tested: **24FCZ2-35HE-B2750-W2D-CA08-4000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P734289  
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-CA08-4000K  
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

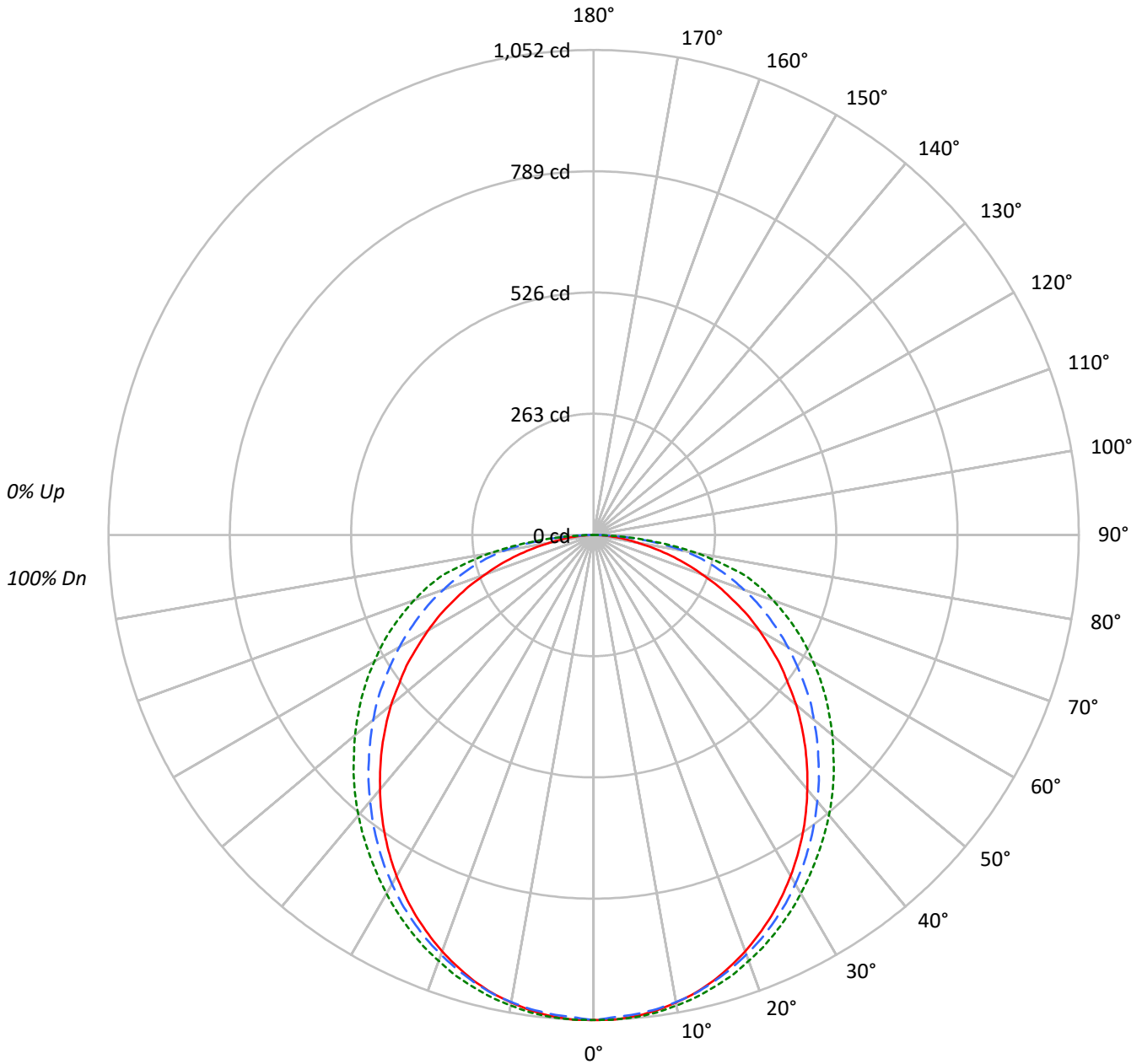
Lumens per Lamp: N/A  
Luminaire Lumens: 3134.0 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 26  
Input Voltage (V): NR  
Input Current (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°	1485	1485	1485
5°	1485	1479	1488
10°	1476	1475	1485
15°	1464	1467	1482
20°	1444	1455	1477
25°	1420	1442	1471
30°	1393	1425	1464
35°	1362	1407	1460
40°	1328	1389	1462
45°	1294	1376	1470
50°	1259	1369	1484
55°	1220	1367	1511
60°	1172	1373	1550
65°	1111	1394	1617
70°	1032	1429	1710
75°	941	1500	1853
80°	774	1615	1854
85°	593	1490	1592



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.5	3.2
10°-20°	284.1	9.1
20°-30°	427.5	13.6
30°-40°	512.4	16.3
40°-50°	533.9	17.0
50°-60°	496.8	15.9
60°-70°	409.1	13.1
70°-80°	278.6	8.9
80°-90°	92.0	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°	811.2	25.9
0°-40°	1323.5	42.2
0°-60°	2354.2	75.1
0°-90°	3134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3134.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1052	1052	1052	1052	1052	
5°	1048	1048	1044	1049	1050	99
15°	1002	1003	1004	1014	1015	282
25°	912	916	926	941	944	420
35°	791	800	817	839	847	494
45°	648	662	689	724	736	500
55°	496	512	555	599	614	442
65°	333	361	417	466	484	330
75°	173	211	275	324	340	182
85°	37	71	92	98	98	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1052.3	1052.3	1052.3	1052.3	1052.3
2.5°	1052.3	1052.3	1047.0	1052.3	1052.3
5°	1048.0	1048.0	1043.8	1049.1	1050.1
7.5°	1040.7	1041.8	1037.7	1043.8	1045.0
10°	1030.2	1031.4	1029.2	1035.5	1036.5
12.5°	1017.7	1018.7	1018.7	1026.1	1027.2
15°	1002.0	1003.1	1004.1	1013.6	1014.6
17.5°	982.2	985.3	987.4	999.0	1001.0
20°	961.3	964.4	968.6	981.1	983.2
22.5°	937.2	941.3	948.7	962.3	965.4
25°	912.1	916.3	925.7	941.3	944.5
27.5°	883.9	890.2	901.6	918.4	922.6
30°	854.6	860.8	874.4	892.2	898.5
32.5°	823.2	831.5	847.2	867.1	873.4
35°	790.7	800.1	816.9	838.8	847.2
37.5°	756.3	766.7	786.5	810.6	821.1
40°	720.7	733.2	754.1	782.4	793.8
42.5°	685.0	696.6	722.7	753.1	765.6
45°	648.5	662.1	689.3	723.7	736.4
47.5°	610.8	624.4	656.8	693.5	705.0
50°	573.2	586.8	623.4	662.1	675.7
52.5°	532.4	550.2	592.0	630.7	644.3
55°	495.8	512.5	555.4	599.3	613.9
57.5°	454.0	473.8	520.9	566.9	582.6
60°	415.3	436.2	486.4	533.4	549.1
62.5°	375.6	398.5	451.8	500.0	517.8
65°	332.6	360.8	417.3	466.4	484.2
67.5°	293.9	323.2	382.9	433.0	448.7
70°	250.0	285.5	346.2	396.5	414.3
72.5°	212.3	247.8	311.6	360.8	378.6
75°	172.6	211.3	275.1	324.2	339.9
77.5°	132.9	175.7	239.5	277.2	282.4
80°	95.2	140.2	198.7	220.7	228.1
82.5°	66.9	107.8	146.5	161.1	165.3
85°	36.6	71.1	92.0	98.3	98.3
87.5°	15.6	30.4	36.6	37.7	38.7
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)