

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: P734290

Luminaire Tested: **24FCZ2-35HE-B2750-W2D-CA08-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734290  
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-CA08-5000K  
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND RIBBED LENS, WITH, CA08 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

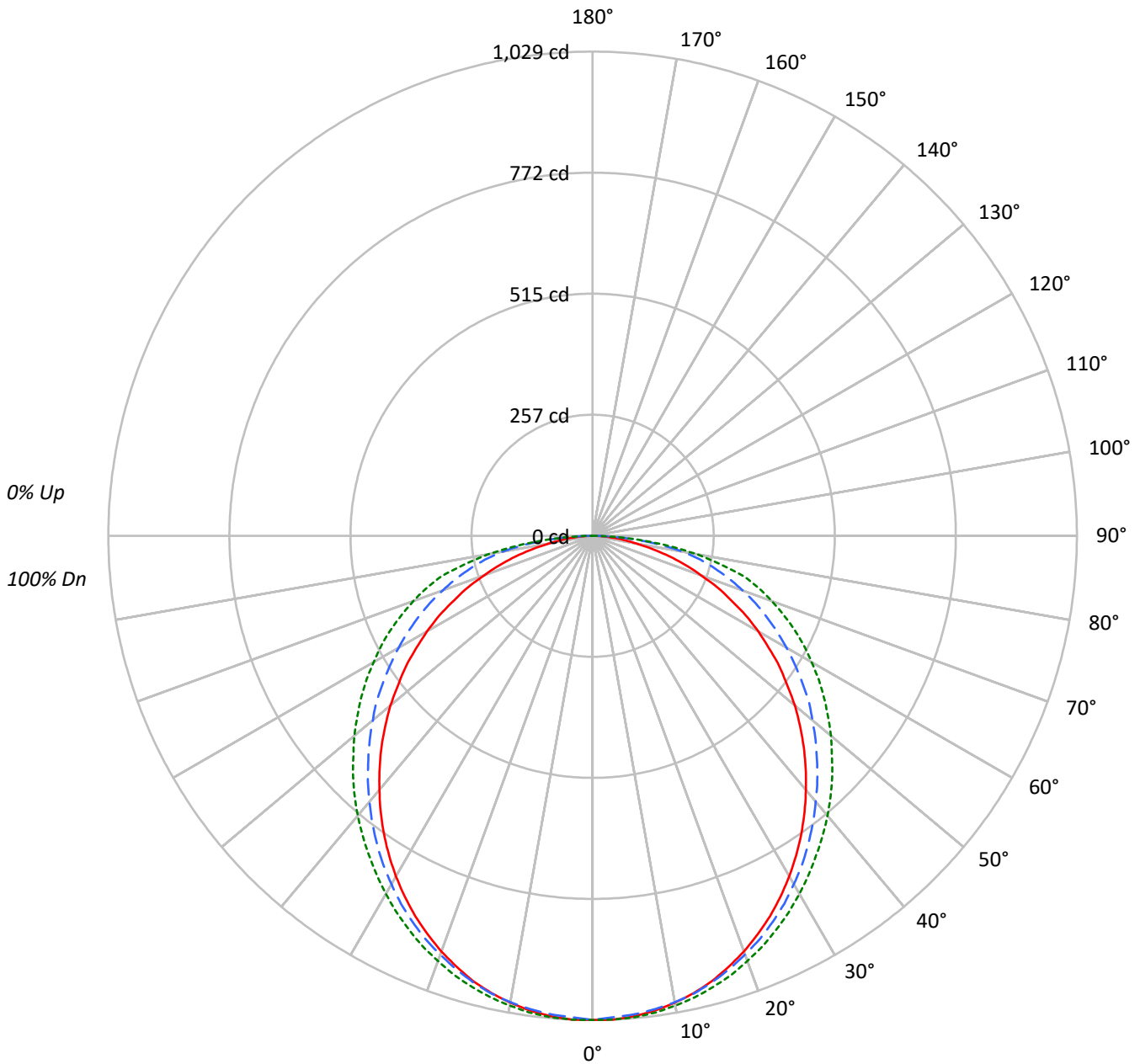
Lumens per Lamp: N/A  
Luminaire Lumens: 3065.0 lumens  
Efficiency: N/A  
Efficacy: 117.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 26  
Input Voltage (V): NR  
Input Current (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°	1452	1452	1452
5°	1452	1446	1455
10°	1444	1442	1453
15°	1432	1435	1450
20°	1412	1423	1444
25°	1389	1410	1438
30°	1362	1394	1432
35°	1332	1376	1427
40°	1299	1359	1430
45°	1266	1346	1437
50°	1231	1339	1451
55°	1193	1337	1477
60°	1146	1343	1516
65°	1086	1363	1582
70°	1009	1397	1672
75°	920	1467	1813
80°	757	1579	1812
85°	580	1457	1558



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.3	3.2
10°-20°	277.9	9.1
20°-30°	418.1	13.6
30°-40°	501.1	16.3
40°-50°	522.2	17.0
50°-60°	485.8	15.9
60°-70°	400.1	13.1
70°-80°	272.5	8.9
80°-90°	90.0	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°	793.3	25.9
0°-40°	1294.4	42.2
0°-60°	2302.4	75.1
0°-90°	3065.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3065.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1029	1029	1029	1029	1029	
5°	1025	1025	1021	1026	1027	97
15°	980	981	982	991	992	276
25°	892	896	905	921	924	411
35°	773	782	799	820	828	483
45°	634	648	674	708	720	489
55°	485	501	543	586	600	432
65°	325	353	408	456	474	323
75°	169	207	269	317	332	178
85°	36	70	90	96	96	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1029.1	1029.1	1029.1	1029.1	1029.1
2.5°	1029.1	1029.1	1023.9	1029.1	1029.1
5°	1024.9	1024.9	1020.9	1026.0	1027.0
7.5°	1017.8	1018.9	1014.8	1020.9	1022.0
10°	1007.5	1008.6	1006.5	1012.7	1013.7
12.5°	995.3	996.3	996.3	1003.5	1004.6
15°	979.9	981.0	982.0	991.3	992.2
17.5°	960.6	963.6	965.6	977.0	978.9
20°	940.1	943.2	947.2	959.5	961.5
22.5°	916.5	920.6	927.8	941.1	944.2
25°	892.0	896.1	905.3	920.6	923.7
27.5°	864.4	870.6	881.8	898.2	902.2
30°	835.8	841.8	855.1	872.5	878.7
32.5°	805.1	813.2	828.5	848.0	854.2
35°	773.3	782.5	798.9	820.4	828.5
37.5°	739.6	749.9	769.2	792.8	803.0
40°	704.9	717.1	737.5	765.1	776.4
42.5°	670.0	681.3	706.8	736.5	748.7
45°	634.2	647.5	674.2	707.8	720.1
47.5°	597.3	610.7	642.3	678.2	689.4
50°	560.6	573.9	609.7	647.5	660.8
52.5°	520.7	538.0	579.0	616.8	630.1
55°	484.9	501.2	543.2	586.1	600.4
57.5°	444.0	463.3	509.4	554.4	569.7
60°	406.1	426.6	475.7	521.6	537.1
62.5°	367.3	389.7	441.9	489.0	506.4
65°	325.2	352.9	408.1	456.2	473.6
67.5°	287.4	316.1	374.4	423.5	438.8
70°	244.5	279.3	338.6	387.8	405.1
72.5°	207.6	242.4	304.8	352.9	370.2
75°	168.8	206.6	269.0	317.1	332.4
77.5°	129.9	171.9	234.3	271.1	276.2
80°	93.1	137.1	194.3	215.9	223.0
82.5°	65.5	105.4	143.3	157.6	161.6
85°	35.8	69.5	90.0	96.2	96.2
87.5°	15.3	29.7	35.8	36.9	37.9
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)