

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: P734303

Luminaire Tested: **24FCZ2-35HE-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734303  
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-CP250-3500K  
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND RIBBED LENS, WITH, CP250 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

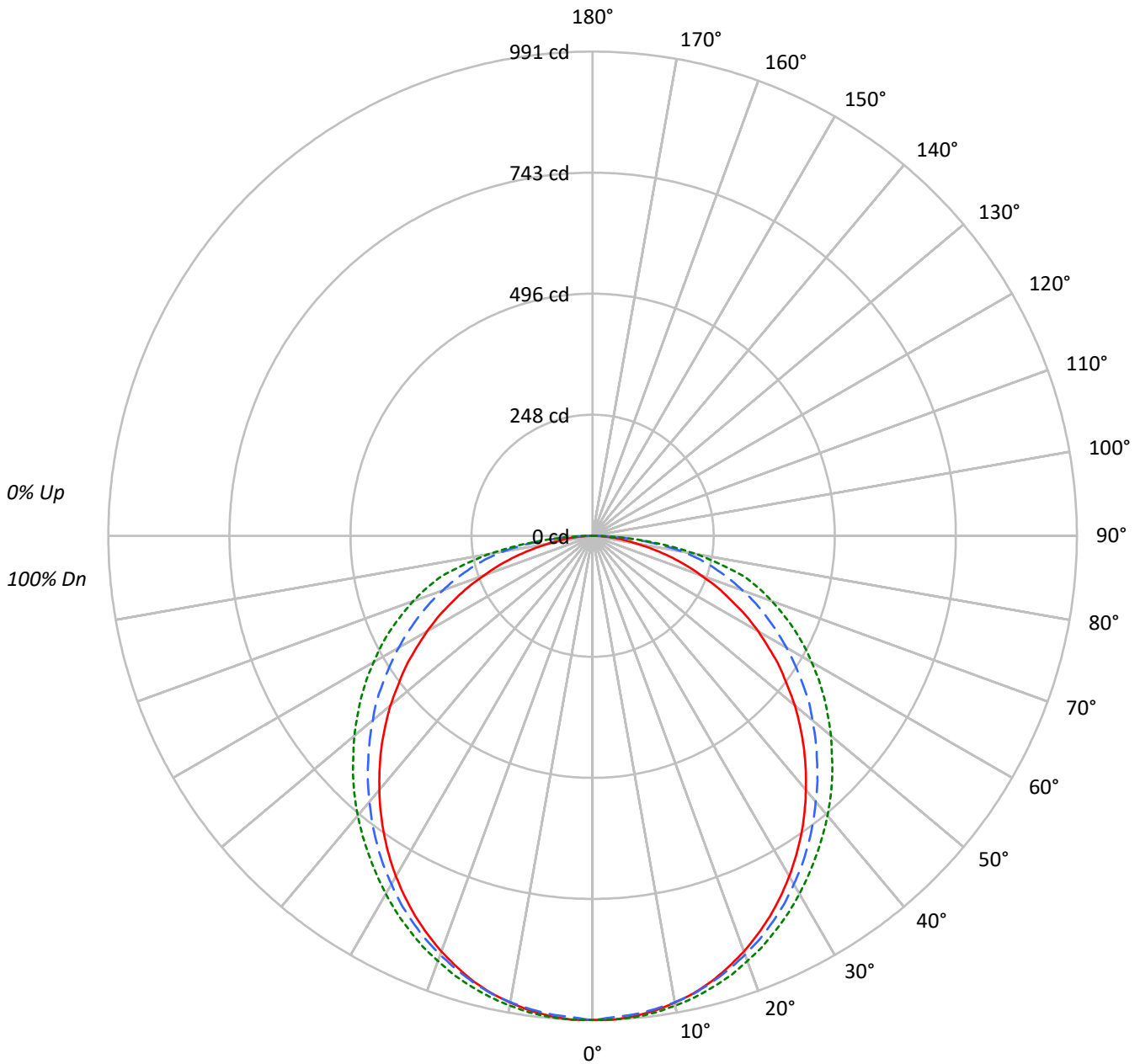
Lumens per Lamp: N/A  
Luminaire Lumens: 2952.0 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P734303

CATALOG NUMBER: 24FCZ2-35HE-B2750-W2D-CP250-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P734303

CATALOG NUMBER: 24FCZ2-35HE-B2750-W2D-CP250-3500K

**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°	1399	1399	1399
5°	1398	1393	1401
10°	1391	1389	1399
15°	1379	1382	1396
20°	1360	1370	1391
25°	1338	1358	1385
30°	1312	1342	1379
35°	1283	1326	1375
40°	1251	1309	1378
45°	1219	1296	1384
50°	1185	1289	1398
55°	1149	1287	1423
60°	1104	1293	1460
65°	1046	1312	1523
70°	972	1346	1610
75°	887	1413	1746
80°	729	1521	1746
85°	557	1404	1500



TEST NUMBER: P734303

CATALOG NUMBER: 24FCZ2-35HE-B2750-W2D-CP250-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.7	3.2
10°-20°	267.6	9.1
20°-30°	402.7	13.6
30°-40°	482.6	16.3
40°-50°	502.9	17.0
50°-60°	467.9	15.9
60°-70°	385.4	13.1
70°-80°	262.5	8.9
80°-90°	86.7	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°	764.1	25.9
0°-40°	1246.7	42.2
0°-60°	2217.5	75.1
0°-90°	2952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2952.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	991	991	991	991	991	
5°	987	987	983	988	989	94
15°	944	945	946	955	956	266
25°	859	863	872	887	890	395
35°	745	754	770	790	798	466
45°	611	624	649	682	694	471
55°	467	483	523	564	578	416
65°	313	340	393	439	456	311
75°	163	199	259	305	320	171
85°	34	67	87	93	93	43
90°	0	0	0	0	0	



TEST NUMBER: P734303

CATALOG NUMBER: 24FCZ2-35HE-B2750-W2D-CP250-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	991.2	991.2	991.2	991.2	991.2
2.5°	991.2	991.2	986.2	991.2	991.2
5°	987.1	987.1	983.2	988.2	989.2
7.5°	980.2	981.3	977.4	983.2	984.3
10°	970.4	971.5	969.4	975.4	976.3
12.5°	958.6	959.6	959.6	966.5	967.5
15°	943.8	944.9	945.8	954.7	955.7
17.5°	925.1	928.1	930.0	940.9	942.8
20°	905.4	908.4	912.3	924.1	926.1
22.5°	882.8	886.7	893.6	906.4	909.4
25°	859.1	863.0	871.9	886.7	889.6
27.5°	832.5	838.5	849.3	865.1	869.0
30°	805.0	810.8	823.6	840.4	846.3
32.5°	775.4	783.2	798.0	816.7	822.7
35°	744.8	753.7	769.5	790.1	798.0
37.5°	712.4	722.2	740.9	763.5	773.4
40°	678.9	690.6	710.3	736.9	747.7
42.5°	645.3	656.2	680.8	709.4	721.1
45°	610.8	623.7	649.3	681.7	693.6
47.5°	575.3	588.1	618.7	653.2	664.0
50°	539.9	552.8	587.2	623.7	636.5
52.5°	501.5	518.2	557.6	594.1	606.9
55°	467.0	482.7	523.2	564.5	578.3
57.5°	427.6	446.2	490.7	534.0	548.7
60°	391.1	410.9	458.1	502.4	517.3
62.5°	353.7	375.4	425.6	470.9	487.7
65°	313.3	339.8	393.0	439.4	456.1
67.5°	276.8	304.5	360.6	407.9	422.6
70°	235.5	269.0	326.1	373.5	390.2
72.5°	200.0	233.5	293.5	339.8	356.6
75°	162.6	199.0	259.1	305.4	320.1
77.5°	125.2	165.5	225.6	261.1	266.0
80°	89.7	132.0	187.1	207.9	214.8
82.5°	63.1	101.5	138.0	151.8	155.7
85°	34.4	67.0	86.7	92.6	92.6
87.5°	14.7	28.6	34.4	35.5	36.5
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)