

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: P734004

Luminaire Tested: **24FCZ2-30-S-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P734004  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24FCZ2-30-S-B2750-W2D-CP250-4000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND SMOOTH LENS, WITH, CP250 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

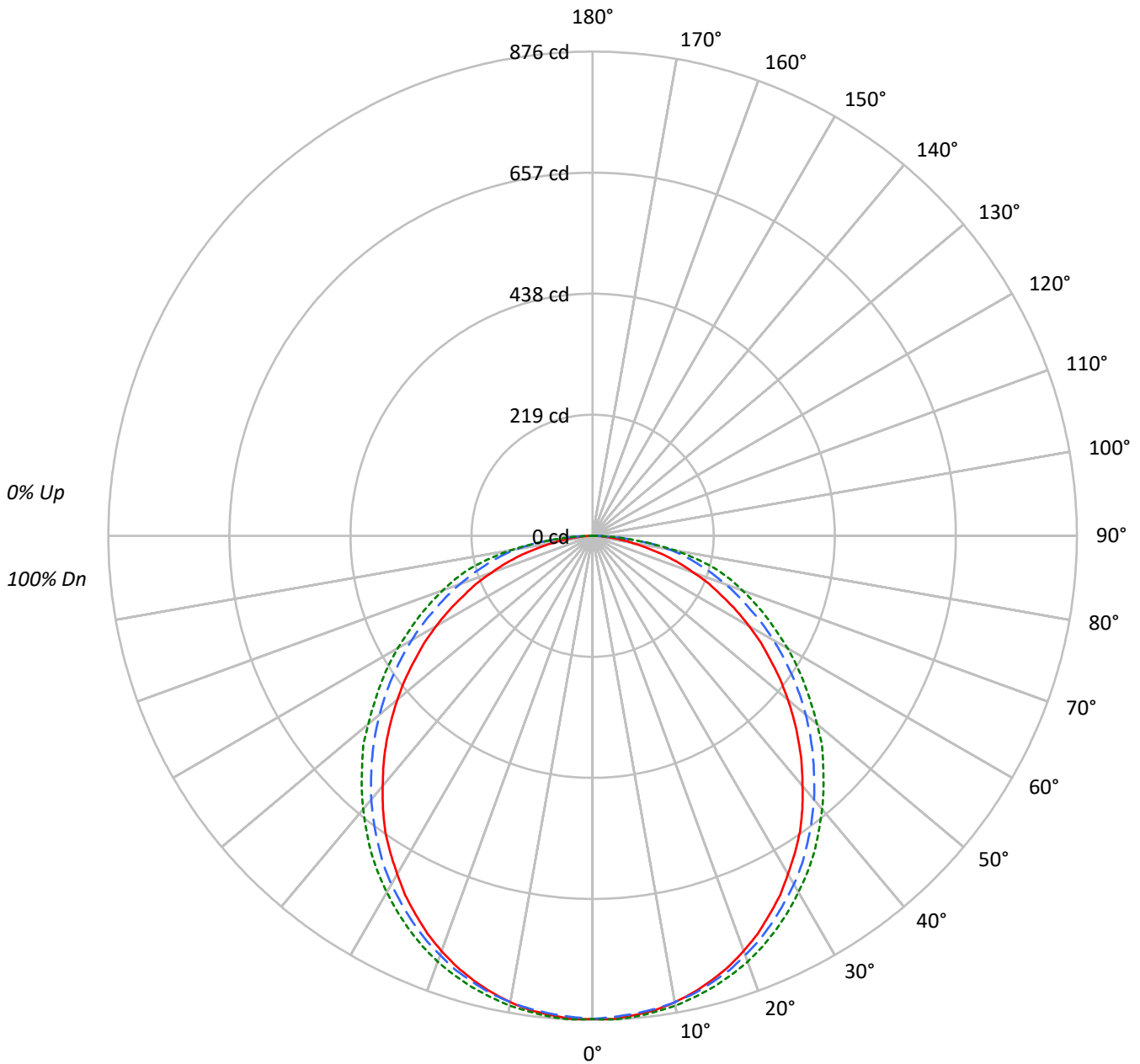
Lumens per Lamp: N/A  
Luminaire Lumens: 2489.0 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 23  
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: P734004

CATALOG NUMBER: 24FCZ2-30-S-B2750-W2D-CP250-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P734004

CATALOG NUMBER: 24FCZ2-30-S-B2750-W2D-CP250-4000K

**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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1234	1234	1234
5°	1233	1230	1238
10°	1228	1228	1237
15°	1216	1222	1235
20°	1200	1212	1231
25°	1178	1200	1224
30°	1152	1187	1214
35°	1126	1167	1204
40°	1088	1148	1190
45°	1052	1125	1177
50°	1012	1104	1163
55°	967	1084	1152
60°	922	1067	1149
65°	863	1048	1156
70°	799	1054	1188
75°	716	1074	1254
80°	579	1137	1227
85°	436	998	973



TEST NUMBER: P734004

CATALOG NUMBER: 24FCZ2-30-S-B2750-W2D-CP250-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.8	3.3
10°-20°	236.5	9.5
20°-30°	355.6	14.3
30°-40°	423.5	17.0
40°-50°	433.5	17.4
50°-60°	390.3	15.7
60°-70°	306.5	12.3
70°-80°	198.9	8.0
80°-90°	61.5	2.5
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°	674.9	27.1
0°-40°	1098.4	44.1
0°-60°	1922.1	77.2
0°-90°	2489.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2489.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	874	874	874	874	874	
5°	870	872	868	873	874	83
15°	832	835	836	844	845	235
25°	757	763	771	784	786	349
35°	654	662	678	694	699	408
45°	527	540	564	585	590	407
55°	393	410	440	463	468	352
65°	258	278	314	340	346	257
75°	131	156	197	224	230	139
85°	27	50	62	60	60	32
90°	0	0	0	0	0	



TEST NUMBER: P734004

CATALOG NUMBER: 24FCZ2-30-S-B2750-W2D-CP250-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	874.4	874.4	874.4	874.4	874.4
2.5°	875.2	875.2	871.2	875.2	876.0
5°	870.4	872.1	868.1	872.8	873.6
7.5°	865.7	865.7	863.3	868.1	868.9
10°	857.0	857.8	857.0	862.5	863.3
12.5°	846.0	847.5	848.3	853.9	854.6
15°	832.5	834.9	836.4	843.6	845.2
17.5°	817.5	819.9	823.8	831.7	833.3
20°	799.3	802.4	807.2	817.5	819.9
22.5°	779.6	782.7	790.6	800.0	804.0
25°	756.6	762.9	770.8	783.5	785.9
27.5°	733.7	739.2	749.5	762.9	766.1
30°	706.8	715.5	728.1	741.6	744.7
32.5°	680.7	689.4	704.4	718.7	722.6
35°	653.8	661.7	677.6	694.1	698.9
37.5°	623.0	633.3	650.7	667.3	672.0
40°	590.6	603.3	623.0	640.4	645.9
42.5°	559.7	573.2	593.0	611.9	618.2
45°	527.3	540.0	563.7	585.1	589.8
47.5°	494.1	508.4	533.6	555.0	562.9
50°	460.9	476.0	502.9	525.0	529.7
52.5°	427.7	443.5	472.0	495.7	498.1
55°	392.9	410.4	440.4	463.3	468.1
57.5°	361.3	376.4	408.7	432.5	438.0
60°	326.5	343.1	377.9	400.1	407.1
62.5°	293.3	310.7	347.1	369.2	375.5
65°	258.5	278.3	313.9	340.0	346.3
67.5°	228.5	247.5	285.4	310.7	317.0
70°	193.7	215.1	255.4	281.5	287.8
72.5°	163.6	185.7	226.1	251.4	260.9
75°	131.3	156.5	196.9	223.8	230.0
77.5°	99.6	128.9	169.9	190.5	190.5
80°	71.2	102.0	139.9	149.5	151.0
82.5°	46.7	76.7	103.5	102.8	102.8
85°	26.9	49.8	61.6	60.1	60.1
87.5°	10.3	20.6	22.1	22.1	21.3
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)