

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: P733913

Luminaire Tested: **24FCZ2-30-B2750-W2D-CA08-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P733913  
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: 24FCZ2-30-B2750-W2D-CA08-3500K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND RIBBED LENS, WITH, CA08 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

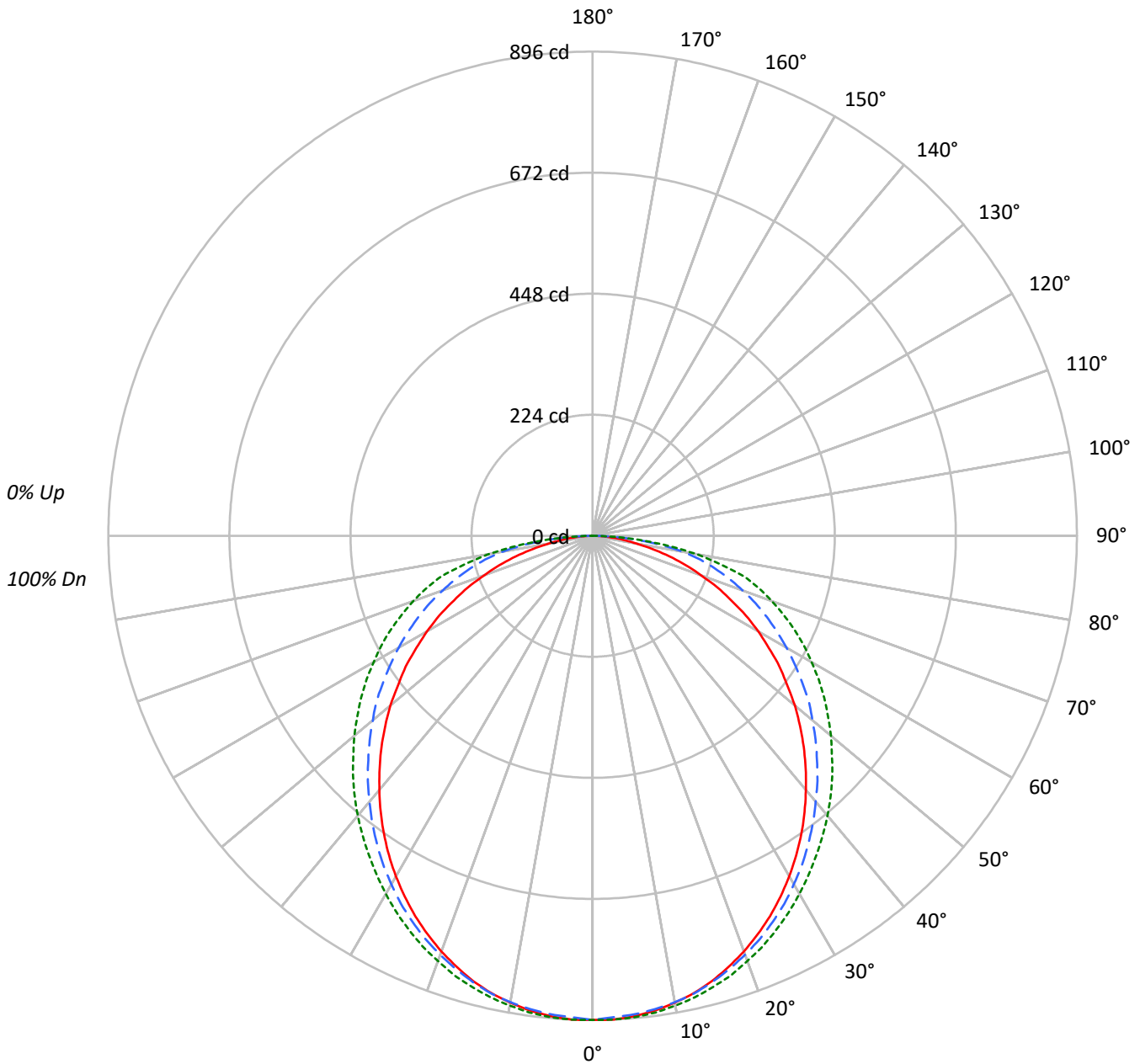
Lumens per Lamp: N/A  
Luminaire Lumens: 2669.0 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 23  
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°	1265	1265	1265
5°	1264	1259	1267
10°	1257	1256	1265
15°	1247	1249	1262
20°	1229	1239	1258
25°	1210	1228	1253
30°	1186	1214	1247
35°	1160	1199	1243
40°	1131	1183	1246
45°	1102	1172	1252
50°	1072	1166	1264
55°	1039	1164	1287
60°	998	1169	1320
65°	946	1187	1377
70°	879	1216	1456
75°	802	1278	1578
80°	659	1375	1578
85°	504	1270	1355



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.8	3.2
10°-20°	242.0	9.1
20°-30°	364.1	13.6
30°-40°	436.3	16.3
40°-50°	454.7	17.0
50°-60°	423.1	15.9
60°-70°	348.4	13.1
70°-80°	237.3	8.9
80°-90°	78.4	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°	690.8	25.9
0°-40°	1127.2	42.2
0°-60°	2004.9	75.1
0°-90°	2669.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2669.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	896	896	896	896	896	
5°	892	892	889	894	894	85
15°	853	854	855	863	864	240
25°	777	780	788	802	804	358
35°	673	681	696	714	722	421
45°	552	564	587	616	627	426
55°	422	436	473	510	523	376
65°	283	307	355	397	412	281
75°	147	180	234	276	289	155
85°	31	61	78	84	84	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	896.1	896.1	896.1	896.1	896.1
2.5°	896.1	896.1	891.6	896.1	896.1
5°	892.5	892.5	889.0	893.5	894.3
7.5°	886.3	887.2	883.7	889.0	889.9
10°	877.4	878.3	876.5	881.9	882.7
12.5°	866.7	867.6	867.6	873.8	874.8
15°	853.3	854.3	855.1	863.2	864.0
17.5°	836.5	839.1	840.9	850.7	852.5
20°	818.6	821.3	824.9	835.5	837.3
22.5°	798.1	801.7	807.9	819.5	822.2
25°	776.8	780.3	788.4	801.7	804.4
27.5°	752.7	758.1	767.9	782.1	785.7
30°	727.8	733.1	744.7	759.8	765.2
32.5°	701.1	708.2	721.5	738.4	743.8
35°	673.4	681.4	695.7	714.4	721.5
37.5°	644.1	653.0	669.8	690.3	699.2
40°	613.8	624.4	642.2	666.3	676.1
42.5°	583.4	593.3	615.5	641.4	652.0
45°	552.3	563.9	587.1	616.4	627.1
47.5°	520.2	531.8	559.4	590.6	600.4
50°	488.2	499.8	530.9	563.9	575.5
52.5°	453.4	468.5	504.2	537.1	548.7
55°	422.3	436.4	473.0	510.4	522.9
57.5°	386.6	403.5	443.6	482.8	496.1
60°	353.6	371.5	414.2	454.2	467.7
62.5°	319.8	339.4	384.8	425.8	440.9
65°	283.2	307.3	355.4	397.2	412.4
67.5°	250.3	275.3	326.1	368.8	382.1
70°	212.9	243.2	294.8	337.7	352.8
72.5°	180.8	211.1	265.4	307.3	322.4
75°	147.0	179.9	234.3	276.1	289.4
77.5°	113.2	149.7	204.0	236.1	240.5
80°	81.1	119.4	169.2	188.0	194.2
82.5°	57.0	91.8	124.8	137.2	140.8
85°	31.1	60.6	78.4	83.7	83.7
87.5°	13.3	25.9	31.1	32.1	33.0
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)