

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: P734011

Luminaire Tested: **24FCZ2-30-SQR-B2750-W2D-CA08-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734011  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24FCZ2-30-SQR-B2750-W2D-CA08-2700K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND SQR LENS, WITH, CA08 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

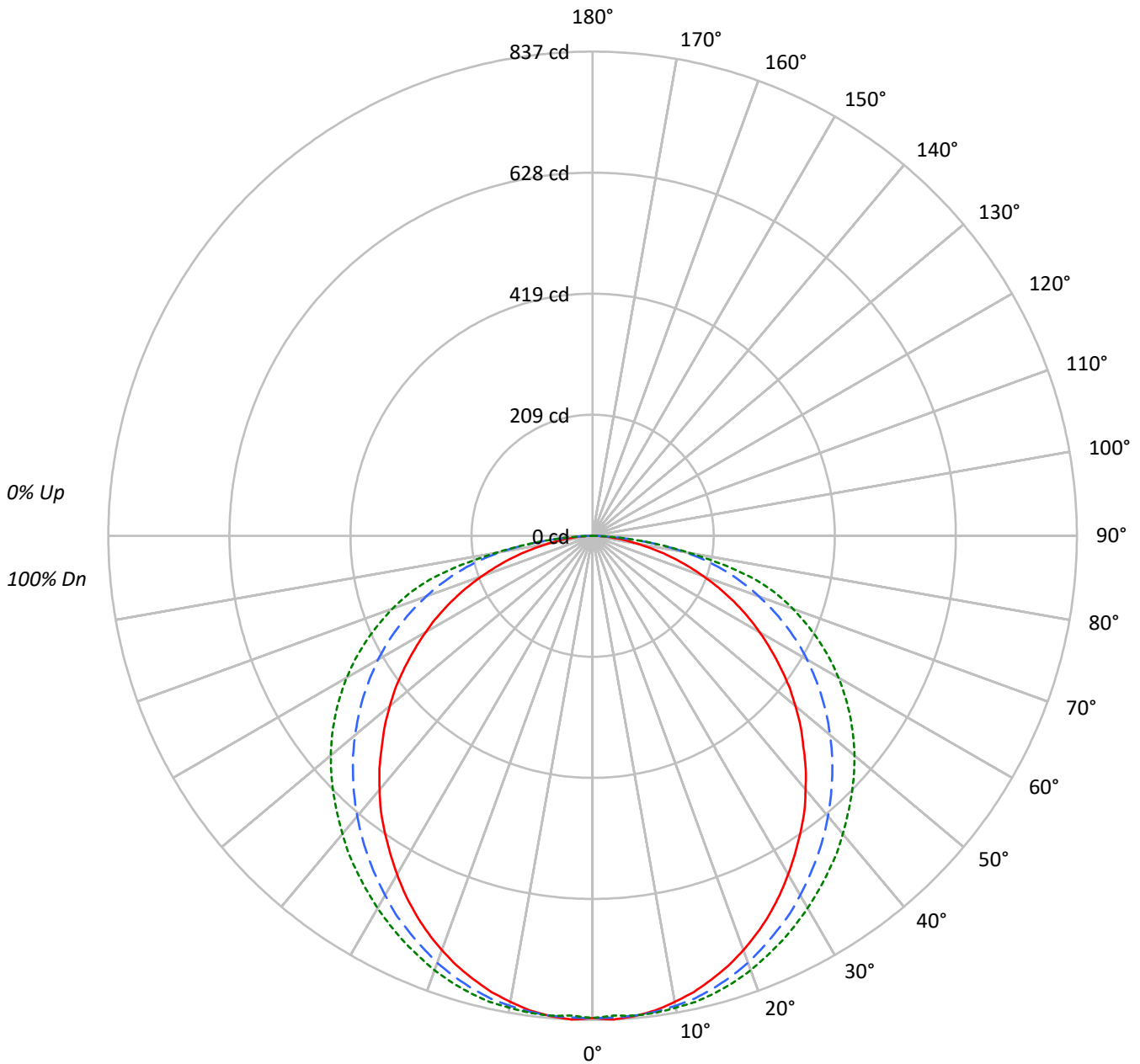
Lumens per Lamp: N/A  
Luminaire Lumens: 2608.0 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					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	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67								
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56								
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47								
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41								
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35								
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31								
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28								
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25								
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22								

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

	0°	45°	90°
0°	1176	1176	1176
5°	1181	1180	1180
10°	1173	1182	1187
15°	1160	1183	1195
20°	1145	1180	1200
25°	1125	1174	1204
30°	1102	1169	1211
35°	1079	1166	1223
40°	1055	1166	1239
45°	1028	1169	1263
50°	1004	1176	1297
55°	975	1189	1337
60°	941	1208	1386
65°	900	1231	1444
70°	835	1262	1518
75°	756	1305	1587
80°	636	1309	1365
85°	487	989	989



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.1	3.0
10°-20°	227.7	8.7
20°-30°	345.8	13.3
30°-40°	420.6	16.1
40°-50°	447.9	17.2
50°-60°	426.6	16.4
60°-70°	356.7	13.7
70°-80°	237.8	9.1
80°-90°	65.8	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°	652.6	25.0
0°-40°	1073.3	41.2
0°-60°	1947.7	74.7
0°-90°	2608.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2608.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	834	834	834	834	834	
5°	834	828	833	833	833	79
15°	794	796	810	816	818	224
25°	723	732	754	766	773	333
35°	626	644	677	699	710	392
45°	515	543	586	618	633	398
55°	396	431	483	525	543	354
65°	270	309	369	414	432	266
75°	139	182	239	280	291	147
85°	30	56	61	60	61	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	833.6	833.6	833.6	833.6	833.6
2.5°	837.1	831.0	833.6	833.6	830.2
5°	833.6	828.4	832.8	832.8	832.8
7.5°	827.7	823.3	830.2	831.9	831.9
10°	818.2	816.5	825.1	827.7	828.4
12.5°	807.9	807.0	819.0	822.4	825.1
15°	794.0	795.8	809.5	815.6	818.2
17.5°	779.4	782.8	798.3	807.0	809.5
20°	762.2	767.3	785.5	794.0	799.2
22.5°	743.3	751.0	769.9	780.2	786.3
25°	722.6	732.0	753.6	766.4	773.4
27.5°	700.2	712.3	737.2	751.8	758.7
30°	676.0	689.8	717.4	734.7	743.3
32.5°	651.1	667.4	697.6	716.5	726.8
35°	626.1	644.2	676.9	699.3	709.6
37.5°	601.1	619.2	655.4	679.5	692.5
40°	572.7	594.2	633.0	659.7	672.7
42.5°	545.2	568.3	609.8	639.0	652.8
45°	515.0	542.6	585.6	618.4	633.0
47.5°	487.4	515.0	561.5	596.0	612.3
50°	457.3	486.5	535.7	573.6	590.8
52.5°	428.0	458.2	509.8	550.3	567.6
55°	396.2	430.6	483.2	525.4	543.4
57.5°	364.3	401.4	455.5	499.5	517.6
60°	333.3	371.1	428.0	472.0	490.9
62.5°	302.3	340.1	399.6	444.3	462.5
65°	269.5	309.1	368.6	414.2	432.4
67.5°	236.8	278.1	337.6	383.2	400.5
70°	202.4	246.3	305.8	350.5	367.8
72.5°	170.6	214.4	273.0	317.0	333.3
75°	138.7	182.5	239.4	279.9	291.1
77.5°	107.7	151.5	202.4	229.1	231.7
80°	78.3	119.8	161.1	168.8	167.9
82.5°	52.5	89.5	111.1	111.9	114.5
85°	30.1	56.0	61.1	60.3	61.1
87.5°	12.1	19.8	17.2	12.9	12.9
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)