

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: P734014

Luminaire Tested: **24FCZ2-30-SQR-B2750-W2D-CA08-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734014  
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-CA08-4000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND SQR LENS, WITH, CA08 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

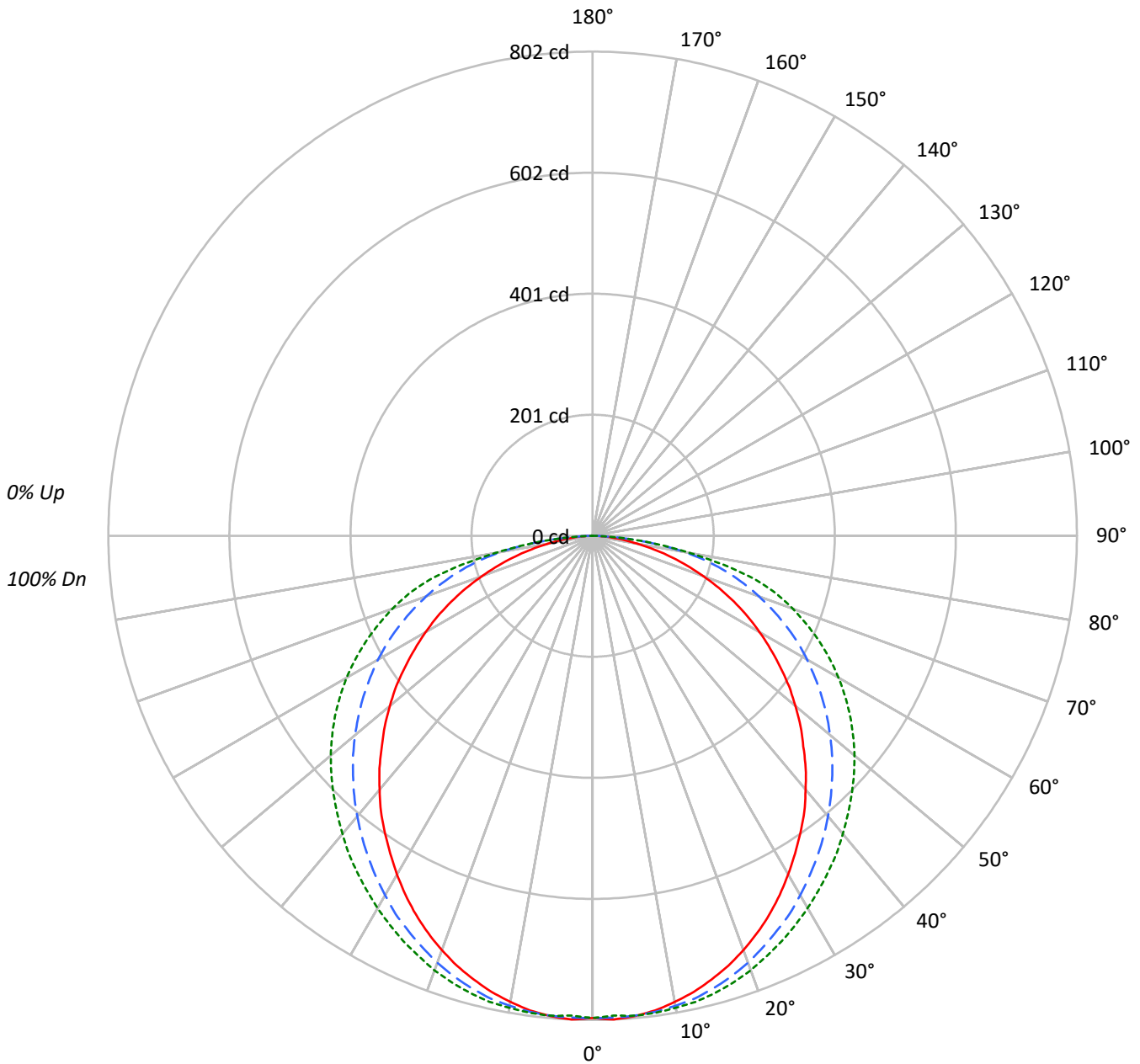
Lumens per Lamp: N/A  
Luminaire Lumens: 2499.0 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1127	1127	1127
5°	1132	1131	1131
10°	1124	1133	1138
15°	1112	1133	1146
20°	1097	1130	1150
25°	1078	1124	1154
30°	1056	1120	1161
35°	1034	1117	1171
40°	1011	1118	1187
45°	985	1120	1211
50°	962	1127	1243
55°	934	1139	1281
60°	902	1158	1328
65°	862	1180	1384
70°	800	1209	1454
75°	725	1251	1521
80°	610	1254	1308
85°	466	949	949



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.8	3.0
10°-20°	218.2	8.7
20°-30°	331.4	13.3
30°-40°	403.1	16.1
40°-50°	429.1	17.2
50°-60°	408.7	16.4
60°-70°	341.8	13.7
70°-80°	227.9	9.1
80°-90°	63.0	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°	625.3	25.0
0°-40°	1028.4	41.2
0°-60°	1866.3	74.7
0°-90°	2499.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2499.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	799	799	799	799	799	
5°	799	794	798	798	798	76
15°	761	762	776	782	784	215
25°	692	701	722	734	741	319
35°	600	617	649	670	680	375
45°	493	520	561	592	607	381
55°	380	413	463	503	521	339
65°	258	296	353	397	414	255
75°	133	175	229	268	279	141
85°	29	54	59	58	59	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	798.8	798.8	798.8	798.8	798.8
2.5°	802.1	796.3	798.8	798.8	795.5
5°	798.8	793.8	798.0	798.0	798.0
7.5°	793.1	788.9	795.5	797.1	797.1
10°	784.0	782.3	790.6	793.1	793.8
12.5°	774.1	773.2	784.8	788.0	790.6
15°	760.8	762.5	775.7	781.5	784.0
17.5°	746.9	750.1	765.0	773.2	775.7
20°	730.3	735.3	752.6	760.8	765.8
22.5°	712.2	719.6	737.7	747.6	753.4
25°	692.4	701.4	722.1	734.4	741.1
27.5°	670.9	682.5	706.4	720.4	727.0
30°	647.8	660.9	687.4	704.0	712.2
32.5°	623.8	639.5	668.5	686.6	696.4
35°	599.9	617.3	648.6	670.1	679.9
37.5°	576.0	593.3	628.0	651.1	663.5
40°	548.8	569.4	606.6	632.1	644.5
42.5°	522.4	544.6	584.3	612.3	625.6
45°	493.4	519.9	561.1	592.5	606.6
47.5°	467.1	493.4	538.0	571.1	586.7
50°	438.2	466.2	513.3	549.6	566.1
52.5°	410.1	439.1	488.5	527.3	543.8
55°	379.6	412.6	463.0	503.4	520.7
57.5°	349.1	384.6	436.5	478.6	496.0
60°	319.4	355.6	410.1	452.3	470.4
62.5°	289.7	325.9	382.9	425.8	443.1
65°	258.2	296.2	353.2	396.9	414.3
67.5°	226.9	266.5	323.4	367.2	383.7
70°	193.9	236.0	293.0	335.9	352.4
72.5°	163.4	205.5	261.6	303.7	319.4
75°	132.9	174.9	229.4	268.2	278.9
77.5°	103.2	145.2	193.9	219.5	222.0
80°	75.1	114.8	154.3	161.7	160.9
82.5°	50.3	85.8	106.5	107.2	109.7
85°	28.8	53.6	58.6	57.8	58.6
87.5°	11.6	19.0	16.5	12.3	12.3
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)