

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: P734136

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734136  
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: 24FCZ2-30HE-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**

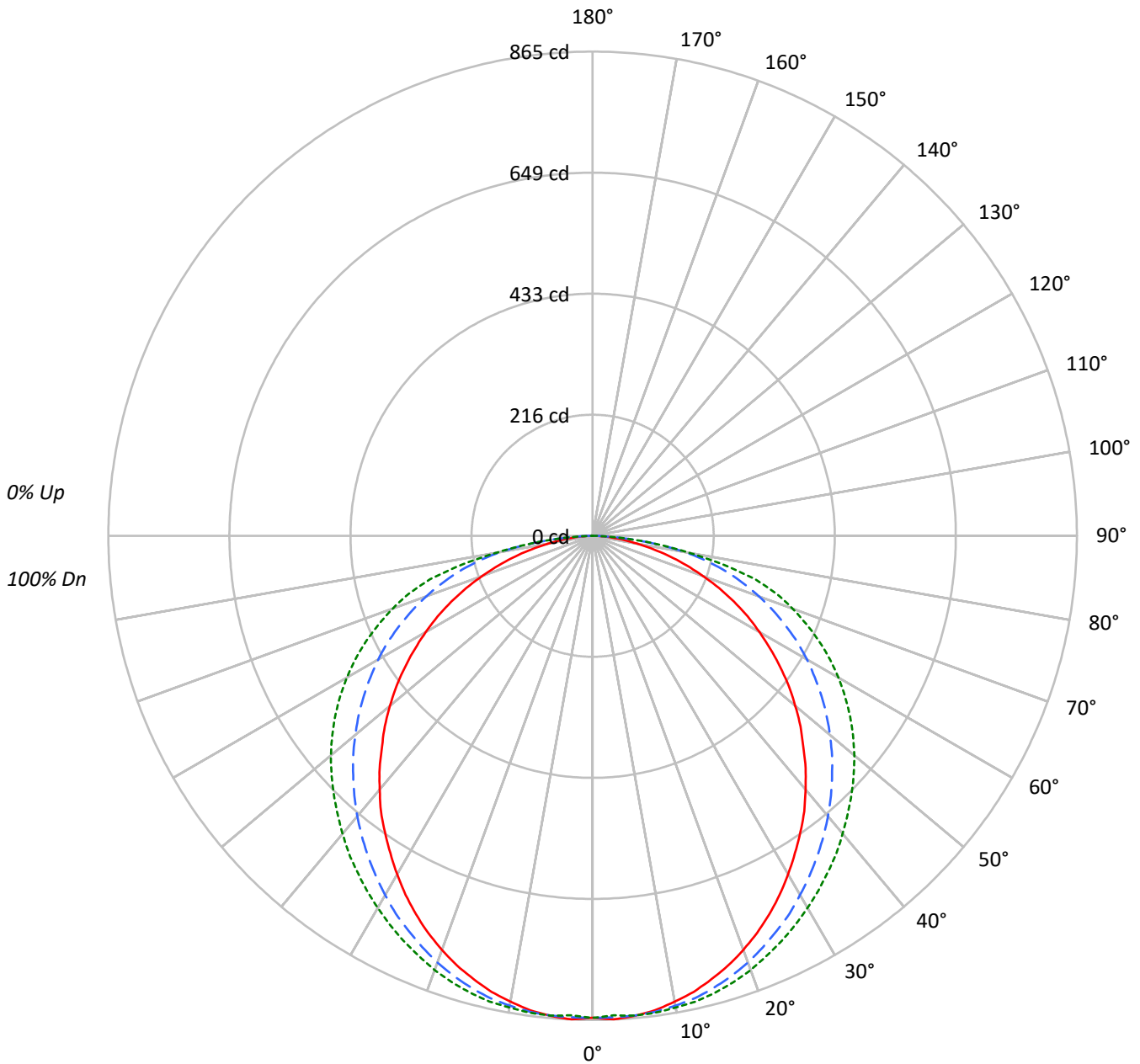
Lumens per Lamp: N/A  
Luminaire Lumens: 2694.0 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 22  
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									
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	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°	1215	1215	1215
5°	1220	1219	1219
10°	1211	1221	1226
15°	1198	1222	1235
20°	1182	1219	1240
25°	1162	1212	1244
30°	1138	1208	1251
35°	1114	1205	1263
40°	1090	1205	1280
45°	1062	1207	1305
50°	1037	1215	1340
55°	1007	1228	1381
60°	972	1248	1431
65°	930	1271	1491
70°	862	1304	1568
75°	781	1349	1640
80°	658	1352	1409
85°	504	1022	1022



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.7	3.0
10°-20°	235.2	8.7
20°-30°	357.2	13.3
30°-40°	434.5	16.1
40°-50°	462.6	17.2
50°-60°	440.6	16.4
60°-70°	368.5	13.7
70°-80°	245.7	9.1
80°-90°	68.0	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°	674.2	25.0
0°-40°	1108.7	41.2
0°-60°	2011.9	74.7
0°-90°	2694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2694.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	861	856	860	860	860	82
15°	820	822	836	842	845	231
25°	746	756	778	792	799	344
35°	647	666	699	722	733	405
45°	532	560	605	639	654	411
55°	409	445	499	543	561	366
65°	278	319	381	428	447	275
75°	143	189	247	289	301	152
85°	31	58	63	62	63	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	861.1	861.1	861.1	861.1	861.1
2.5°	864.7	858.4	861.1	861.1	857.6
5°	861.1	855.8	860.3	860.3	860.3
7.5°	855.0	850.4	857.6	859.4	859.4
10°	845.1	843.4	852.3	855.0	855.8
12.5°	834.5	833.6	846.1	849.5	852.3
15°	820.2	822.0	836.2	842.5	845.1
17.5°	805.1	808.6	824.7	833.6	836.2
20°	787.3	792.6	811.4	820.2	825.6
22.5°	767.8	775.8	795.3	805.9	812.2
25°	746.4	756.1	778.4	791.7	798.9
27.5°	723.3	735.8	761.5	776.6	783.7
30°	698.3	712.5	741.1	758.9	767.8
32.5°	672.5	689.4	720.6	740.2	750.8
35°	646.7	665.5	699.2	722.4	733.0
37.5°	621.0	639.6	677.0	701.9	715.3
40°	591.6	613.8	653.9	681.4	694.8
42.5°	563.2	587.1	629.9	660.0	674.4
45°	531.9	560.5	604.9	638.8	653.9
47.5°	503.5	531.9	580.0	615.6	632.5
50°	472.4	502.6	553.3	592.5	610.3
52.5°	442.1	473.3	526.6	568.5	586.3
55°	409.3	444.8	499.1	542.7	561.3
57.5°	376.3	414.6	470.5	516.0	534.7
60°	344.3	383.4	442.1	487.5	507.1
62.5°	312.3	351.3	412.7	459.0	477.7
65°	278.4	319.3	380.7	427.9	446.6
67.5°	244.6	287.3	348.7	395.9	413.7
70°	209.0	254.5	315.9	362.1	379.9
72.5°	176.2	221.5	282.0	327.4	344.3
75°	143.2	188.6	247.3	289.1	300.7
77.5°	111.2	156.5	209.0	236.7	239.3
80°	80.9	123.7	166.4	174.3	173.4
82.5°	54.2	92.5	114.8	115.6	118.3
85°	31.1	57.8	63.1	62.3	63.1
87.5°	12.5	20.5	17.8	13.3	13.3
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)