

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: P734044

Luminaire Tested: **24FCZ2-30HE-B2750-W2D-CA125-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734044  
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: 24FCZ2-30HE-B2750-W2D-CA125-4000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND RIBBED LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

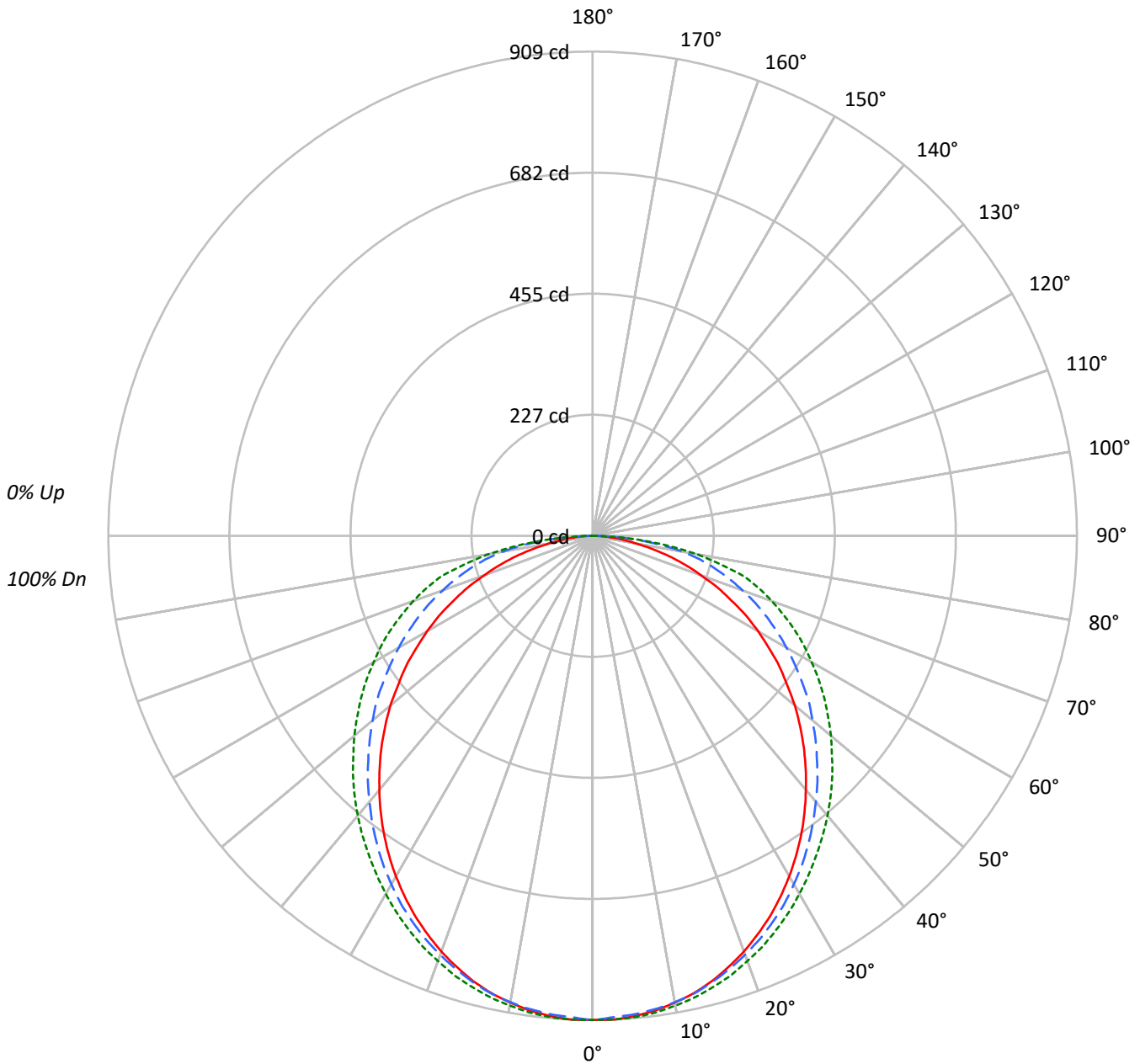
Lumens per Lamp: N/A  
Luminaire Lumens: 2708.0 lumens  
Efficiency: N/A  
Efficacy: 123.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	1283	1283	1283
5°	1283	1278	1286
10°	1276	1274	1283
15°	1265	1268	1281
20°	1247	1257	1276
25°	1227	1246	1271
30°	1203	1231	1265
35°	1177	1216	1261
40°	1147	1200	1264
45°	1118	1189	1270
50°	1088	1183	1282
55°	1054	1181	1305
60°	1013	1186	1339
65°	960	1204	1397
70°	891	1234	1477
75°	813	1296	1602
80°	668	1396	1602
85°	512	1287	1376



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.0	3.2
10°-20°	245.5	9.1
20°-30°	369.4	13.6
30°-40°	442.7	16.3
40°-50°	461.4	17.0
50°-60°	429.2	15.9
60°-70°	353.5	13.1
70°-80°	240.8	8.9
80°-90°	79.5	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°	700.9	25.9
0°-40°	1143.6	42.2
0°-60°	2034.2	75.1
0°-90°	2708.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2708.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	906	906	902	906	907	86
15°	866	867	868	876	877	244
25°	788	792	800	813	816	363
35°	683	691	706	725	732	427
45°	560	572	596	625	636	432
55°	428	443	480	518	530	382
65°	287	312	361	403	418	285
75°	149	183	238	280	294	157
85°	32	61	80	85	85	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	909.2	909.2	909.2	909.2	909.2
2.5°	909.2	909.2	904.7	909.2	909.2
5°	905.5	905.5	901.9	906.5	907.4
7.5°	899.2	900.2	896.6	901.9	902.9
10°	890.2	891.2	889.3	894.8	895.6
12.5°	879.4	880.3	880.3	886.6	887.6
15°	865.8	866.8	867.6	875.8	876.7
17.5°	848.7	851.4	853.1	863.2	864.9
20°	830.6	833.3	836.9	847.7	849.5
22.5°	809.8	813.4	819.7	831.5	834.2
25°	788.1	791.7	799.9	813.4	816.1
27.5°	763.7	769.2	779.1	793.6	797.2
30°	738.4	743.8	755.5	770.9	776.3
32.5°	711.3	718.5	732.0	749.2	754.7
35°	683.2	691.4	705.9	724.8	732.0
37.5°	653.5	662.5	679.6	700.4	709.5
40°	622.8	633.5	651.6	676.0	685.9
42.5°	591.9	602.0	624.5	650.8	661.5
45°	560.3	572.1	595.6	625.4	636.3
47.5°	527.8	539.5	567.5	599.2	609.1
50°	495.3	507.1	538.7	572.1	583.9
52.5°	460.0	475.4	511.5	545.0	556.7
55°	428.4	442.8	479.9	517.9	530.5
57.5°	392.3	409.4	450.1	489.9	503.4
60°	358.8	376.9	420.3	460.9	474.5
62.5°	324.5	344.3	390.4	432.0	447.4
65°	287.4	311.8	360.6	403.0	418.4
67.5°	253.9	279.3	330.8	374.2	387.7
70°	216.0	246.7	299.1	342.6	357.9
72.5°	183.4	214.2	269.3	311.8	327.1
75°	149.1	182.6	237.7	280.2	293.7
77.5°	114.8	151.8	207.0	239.5	244.0
80°	82.2	121.1	171.7	190.7	197.1
82.5°	57.8	93.1	126.6	139.2	142.8
85°	31.6	61.4	79.5	85.0	85.0
87.5°	13.5	26.3	31.6	32.6	33.4
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)