

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: P734052

Luminaire Tested: **24FCZ2-30HE-B2750-W2D-CP250-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734052  
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-CP250-3000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND RIBBED LENS, WITH, CP250 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

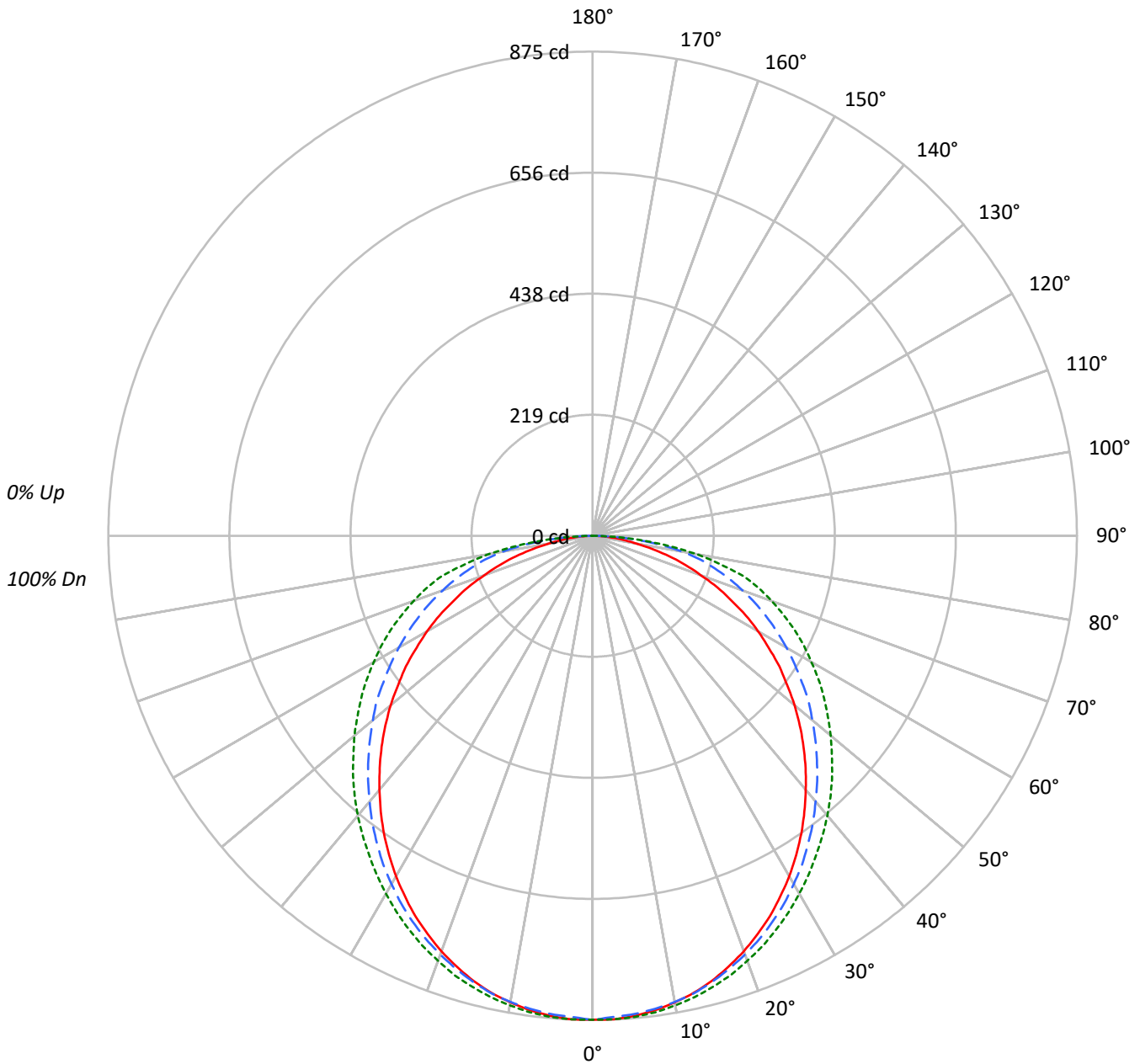
Lumens per Lamp: N/A  
Luminaire Lumens: 2605.0 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1234	1234	1234
5°	1234	1229	1237
10°	1227	1226	1235
15°	1217	1219	1232
20°	1200	1209	1227
25°	1181	1198	1223
30°	1158	1184	1217
35°	1132	1170	1213
40°	1104	1155	1216
45°	1076	1144	1222
50°	1046	1138	1233
55°	1014	1136	1256
60°	974	1141	1289
65°	923	1158	1344
70°	857	1187	1421
75°	783	1247	1540
80°	643	1342	1541
85°	492	1239	1323



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.7	3.2
10°-20°	236.2	9.1
20°-30°	355.4	13.6
30°-40°	425.9	16.3
40°-50°	443.8	17.0
50°-60°	412.9	15.9
60°-70°	340.1	13.1
70°-80°	231.6	8.9
80°-90°	76.5	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°	674.2	25.9
0°-40°	1100.1	42.2
0°-60°	1956.9	75.1
0°-90°	2605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2605.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	875	875	875	875	875	
5°	871	871	868	872	873	83
15°	833	834	835	842	843	235
25°	758	762	770	782	785	349
35°	657	665	679	697	704	411
45°	539	550	573	602	612	416
55°	412	426	462	498	510	367
65°	276	300	347	388	402	274
75°	144	176	229	270	282	151
85°	30	59	76	82	82	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	874.7	874.7	874.7	874.7	874.7
2.5°	874.7	874.7	870.3	874.7	874.7
5°	871.1	871.1	867.6	872.0	872.9
7.5°	865.0	866.0	862.5	867.6	868.6
10°	856.3	857.3	855.5	860.7	861.6
12.5°	845.9	846.8	846.8	852.9	853.8
15°	832.8	833.8	834.6	842.5	843.3
17.5°	816.4	819.0	820.7	830.3	832.0
20°	799.0	801.6	805.1	815.5	817.2
22.5°	779.0	782.4	788.5	799.8	802.5
25°	758.1	761.6	769.5	782.4	785.1
27.5°	734.7	739.9	749.4	763.4	766.8
30°	710.4	715.5	726.8	741.6	746.8
32.5°	684.3	691.2	704.2	720.7	726.0
35°	657.2	665.1	679.0	697.3	704.2
37.5°	628.6	637.3	653.8	673.8	682.5
40°	599.1	609.4	626.8	650.3	659.8
42.5°	569.4	579.1	600.7	626.0	636.4
45°	539.0	550.3	573.0	601.6	612.1
47.5°	507.7	519.0	545.9	576.4	586.0
50°	476.5	487.8	518.2	550.3	561.7
52.5°	442.5	457.3	492.1	524.3	535.6
55°	412.1	426.0	461.7	498.2	510.3
57.5°	377.3	393.8	433.0	471.2	484.2
60°	345.2	362.6	404.3	443.4	456.5
62.5°	312.2	331.2	375.6	415.6	430.4
65°	276.4	299.9	346.8	387.7	402.5
67.5°	244.3	268.7	318.2	359.9	372.9
70°	207.8	237.3	287.7	329.6	344.3
72.5°	176.5	206.0	259.0	299.9	314.7
75°	143.5	175.6	228.6	269.5	282.5
77.5°	110.4	146.1	199.1	230.4	234.7
80°	79.1	116.5	165.1	183.5	189.6
82.5°	55.6	89.6	121.8	133.9	137.4
85°	30.4	59.1	76.5	81.7	81.7
87.5°	13.0	25.3	30.4	31.3	32.2
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)