

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: P734134

Luminaire Tested: **24FCZ2-30HE-S-B2750-W2D-CP375-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734134  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24FCZ2-30HE-S-B2750-W2D-CP375-4000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND SMOOTH LENS, WITH, CP375 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

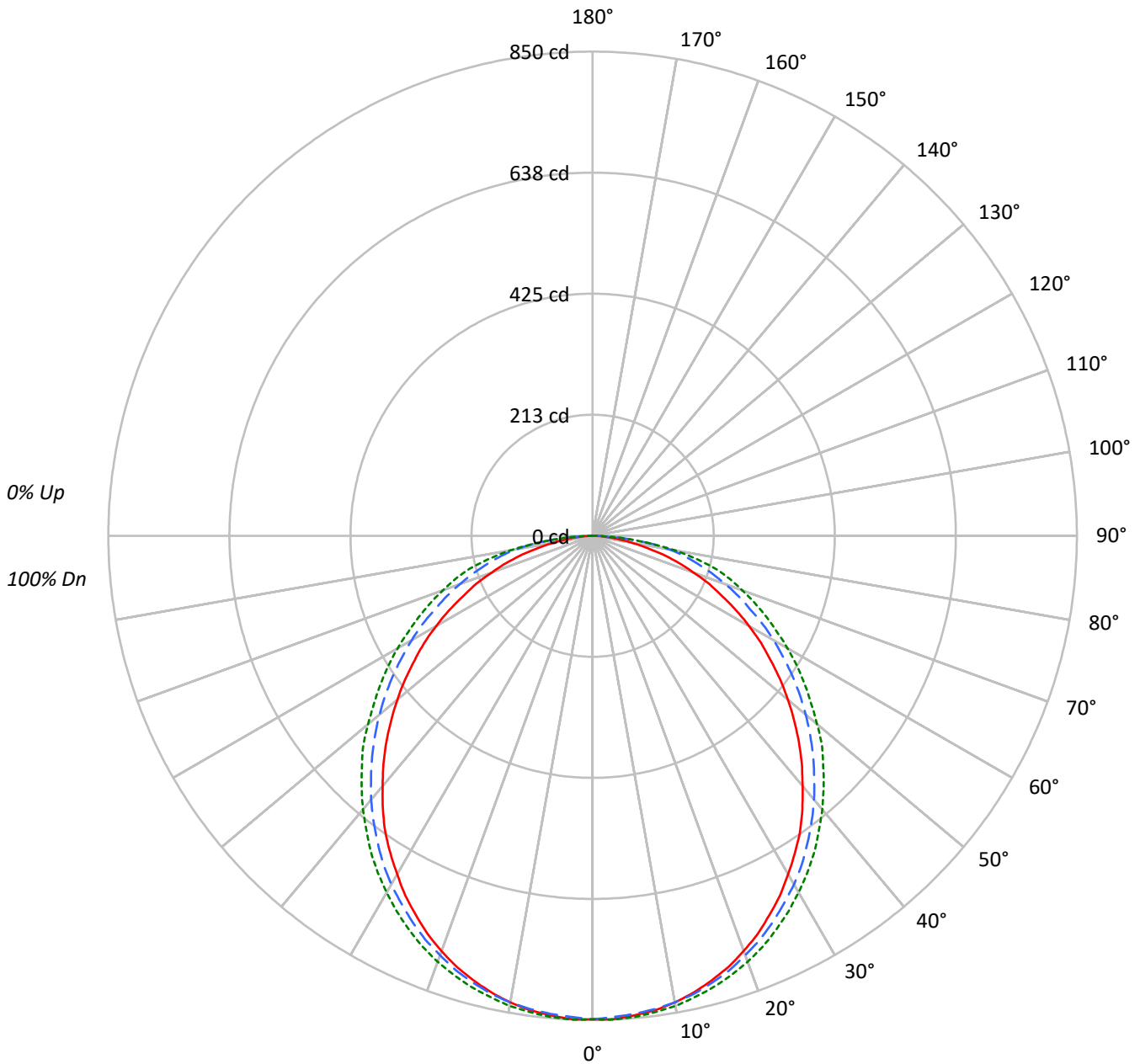
Lumens per Lamp: N/A  
Luminaire Lumens: 2416.0 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

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

	0°	45°	90°
0°	1198	1198	1198
5°	1197	1194	1201
10°	1192	1192	1201
15°	1181	1186	1199
20°	1165	1177	1195
25°	1144	1165	1188
30°	1118	1152	1178
35°	1094	1133	1169
40°	1056	1114	1155
45°	1022	1092	1143
50°	982	1072	1129
55°	938	1052	1118
60°	895	1035	1116
65°	838	1018	1122
70°	776	1023	1153
75°	695	1042	1218
80°	562	1104	1192
85°	423	968	944



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.4	3.3
10°-20°	229.6	9.5
20°-30°	345.1	14.3
30°-40°	411.1	17.0
40°-50°	420.8	17.4
50°-60°	378.8	15.7
60°-70°	297.5	12.3
70°-80°	193.1	8.0
80°-90°	59.7	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°	655.1	27.1
0°-40°	1066.2	44.1
0°-60°	1865.8	77.2
0°-90°	2416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2416.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	849	849	849	849	849	
5°	845	846	843	847	848	80
15°	808	810	812	819	820	228
25°	734	740	748	760	763	338
35°	635	642	658	674	678	396
45°	512	524	547	568	572	395
55°	381	398	427	450	454	342
65°	251	270	305	330	336	250
75°	127	152	191	217	223	135
85°	26	48	60	58	58	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	848.8	848.8	848.8	848.8	<i>848.8</i>
2.5°	<i>849.5</i>	<i>849.5</i>	<i>845.7</i>	<i>849.5</i>	<i>850.3</i>
5°	844.9	846.5	842.6	847.2	<i>848.0</i>
7.5°	840.3	840.3	838.0	842.6	<i>843.4</i>
10°	831.9	832.6	831.9	837.2	<i>838.0</i>
12.5°	821.2	822.6	823.5	828.8	<i>829.6</i>
15°	808.1	810.4	811.9	818.8	<i>820.4</i>
17.5°	793.5	795.8	799.6	807.3	<i>808.9</i>
20°	775.8	778.9	783.5	793.5	<i>795.8</i>
22.5°	756.7	759.8	767.4	776.6	<i>780.5</i>
25°	734.4	740.5	748.2	760.5	<i>762.8</i>
27.5°	712.1	717.5	727.5	740.5	<i>743.7</i>
30°	686.1	694.5	706.8	719.8	<i>722.9</i>
32.5°	660.7	669.1	683.8	697.6	<i>701.4</i>
35°	634.7	642.3	657.7	673.8	<i>678.4</i>
37.5°	604.7	614.7	631.6	647.7	<i>652.3</i>
40°	573.3	585.6	604.7	621.6	<i>627.0</i>
42.5°	543.3	556.3	575.6	594.0	<i>600.1</i>
45°	511.9	524.2	547.2	567.9	<i>572.5</i>
47.5°	479.6	493.5	518.0	538.7	<i>546.4</i>
50°	447.4	462.0	488.1	509.6	<i>514.2</i>
52.5°	415.2	430.5	458.1	481.2	<i>483.5</i>
55°	381.4	398.3	427.4	449.7	<i>454.4</i>
57.5°	350.7	365.3	396.8	419.8	<i>425.1</i>
60°	317.0	333.0	366.8	388.3	<i>395.2</i>
62.5°	284.7	301.6	336.9	358.4	<i>364.5</i>
65°	250.9	270.2	304.7	330.0	<i>336.1</i>
67.5°	221.8	240.2	277.0	301.6	<i>307.7</i>
70°	188.0	208.8	247.9	273.2	<i>279.3</i>
72.5°	158.8	180.3	219.5	244.0	<i>253.3</i>
75°	127.4	151.9	191.1	217.2	<i>223.3</i>
77.5°	96.7	125.1	165.0	184.9	<i>184.9</i>
80°	69.1	99.0	135.8	145.1	<i>146.6</i>
82.5°	45.3	74.4	100.5	99.8	<i>99.8</i>
85°	26.1	48.4	59.8	58.3	<i>58.3</i>
87.5°	10.0	20.0	21.5	21.5	<i>20.7</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)