

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: P734131

Luminaire Tested: **24FCZ2-30HE-S-B2750-W2D-CP375-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734131  
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-CP375-2700K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND SMOOTH LENS, WITH, CP375 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

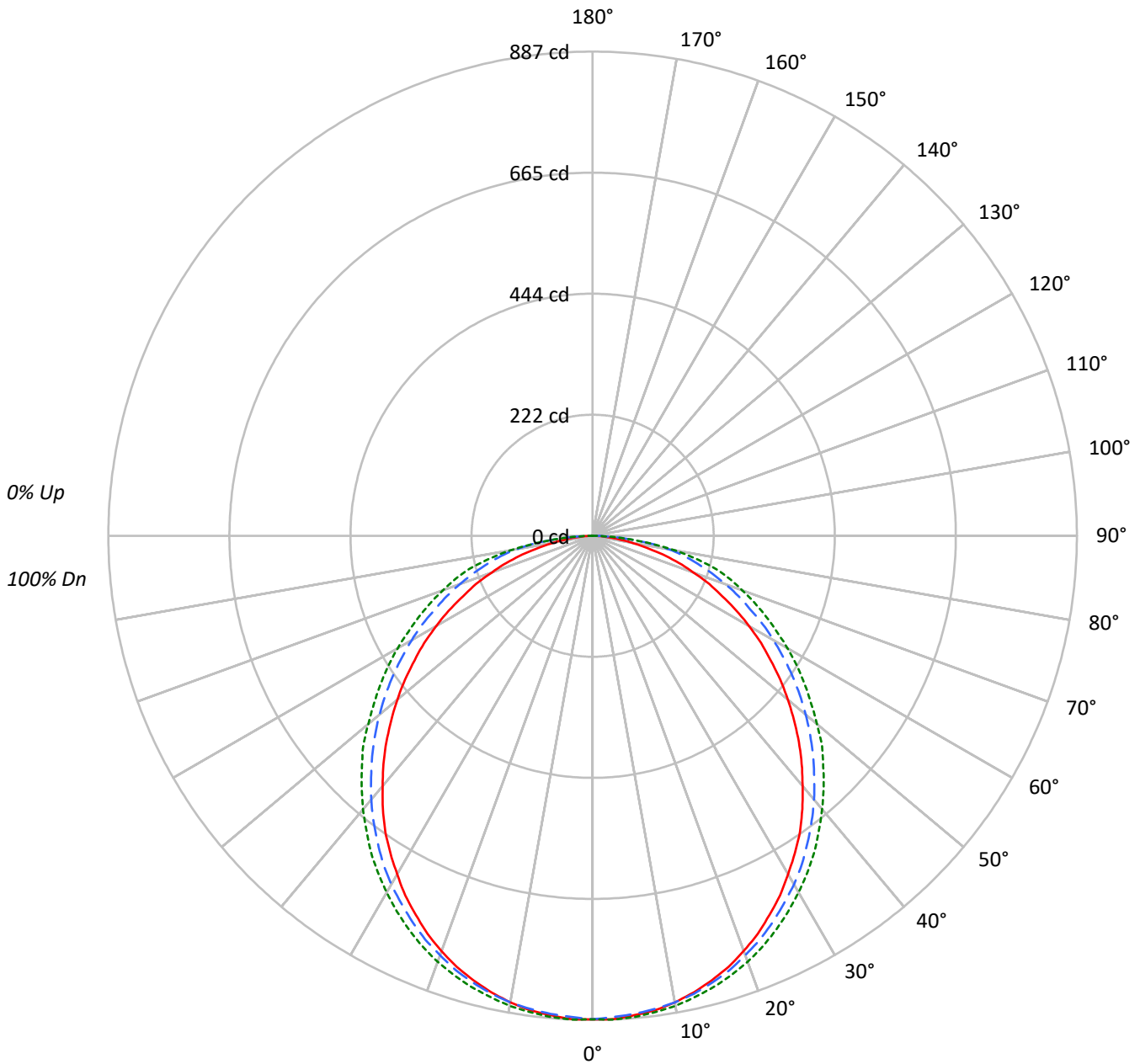
Lumens per Lamp: N/A  
Luminaire Lumens: 2521.0 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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					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	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°	1250	1250	1250
5°	1249	1246	1254
10°	1244	1244	1253
15°	1232	1238	1251
20°	1216	1228	1247
25°	1193	1216	1240
30°	1167	1202	1229
35°	1141	1182	1220
40°	1102	1163	1205
45°	1066	1140	1192
50°	1025	1118	1178
55°	979	1097	1167
60°	933	1080	1164
65°	874	1062	1171
70°	809	1068	1203
75°	725	1087	1271
80°	586	1152	1243
85°	440	1010	986



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.8	3.3
10°-20°	239.6	9.5
20°-30°	360.1	14.3
30°-40°	429.0	17.0
40°-50°	439.0	17.4
50°-60°	395.3	15.7
60°-70°	310.4	12.3
70°-80°	201.4	8.0
80°-90°	62.3	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°	683.5	27.1
0°-40°	1112.5	44.1
0°-60°	1946.8	77.2
0°-90°	2521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2521.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	886	886	886	886	886	
5°	882	883	879	884	885	84
15°	843	846	847	854	856	238
25°	766	773	781	794	796	353
35°	662	670	686	703	708	413
45°	534	547	571	593	597	412
55°	398	416	446	469	474	357
65°	262	282	318	344	351	261
75°	133	158	199	227	233	141
85°	27	50	62	61	61	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	885.7	885.7	885.7	885.7	<i>885.7</i>
2.5°	<i>886.5</i>	<i>886.5</i>	<i>882.4</i>	<i>886.5</i>	<i>887.2</i>
5°	881.6	883.3	879.2	884.0	<i>884.8</i>
7.5°	876.8	876.8	874.4	879.2	<i>880.1</i>
10°	868.0	868.8	868.0	873.6	<i>874.4</i>
12.5°	856.8	858.4	859.2	864.8	<i>865.6</i>
15°	843.2	845.6	847.2	854.4	<i>856.1</i>
17.5°	828.0	830.4	834.4	842.4	<i>844.0</i>
20°	809.6	812.7	817.6	828.0	<i>830.4</i>
22.5°	789.6	792.8	800.8	810.3	<i>814.4</i>
25°	766.3	772.7	780.7	793.5	<i>796.0</i>
27.5°	743.1	748.7	759.1	772.7	<i>776.0</i>
30°	715.9	724.7	737.5	751.1	<i>754.3</i>
32.5°	689.4	698.2	713.5	727.9	<i>731.9</i>
35°	662.2	670.2	686.3	703.0	<i>707.9</i>
37.5°	631.0	641.4	659.1	675.8	<i>680.7</i>
40°	598.2	611.0	631.0	648.6	<i>654.2</i>
42.5°	566.9	580.5	600.6	619.8	<i>626.2</i>
45°	534.1	546.9	571.0	592.6	<i>597.4</i>
47.5°	500.4	514.9	540.5	562.1	<i>570.1</i>
50°	466.9	482.1	509.3	531.7	<i>536.5</i>
52.5°	433.2	449.2	478.1	502.1	<i>504.5</i>
55°	398.0	415.6	446.0	469.3	<i>474.1</i>
57.5°	365.9	381.2	414.0	438.0	<i>443.6</i>
60°	330.7	347.5	382.7	405.2	<i>412.4</i>
62.5°	297.1	314.7	351.6	374.0	<i>380.3</i>
65°	261.8	281.9	317.9	344.3	<i>350.7</i>
67.5°	231.5	250.7	289.1	314.7	<i>321.1</i>
70°	196.1	217.9	258.7	285.1	<i>291.5</i>
72.5°	165.8	188.1	229.0	254.6	<i>264.3</i>
75°	132.9	158.5	199.4	226.6	<i>233.0</i>
77.5°	100.9	130.5	172.1	193.0	<i>193.0</i>
80°	72.1	103.3	141.7	151.4	<i>152.9</i>
82.5°	47.3	77.7	104.9	104.1	<i>104.1</i>
85°	27.2	50.5	62.4	60.9	<i>60.9</i>
87.5°	10.4	20.8	22.4	22.4	<i>21.6</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)