

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: P734125

Luminaire Tested: **24FCZ2-30HE-S-B2750-W2D-CP187-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734125  
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-CP187-5000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND SMOOTH LENS, WITH, CP187 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

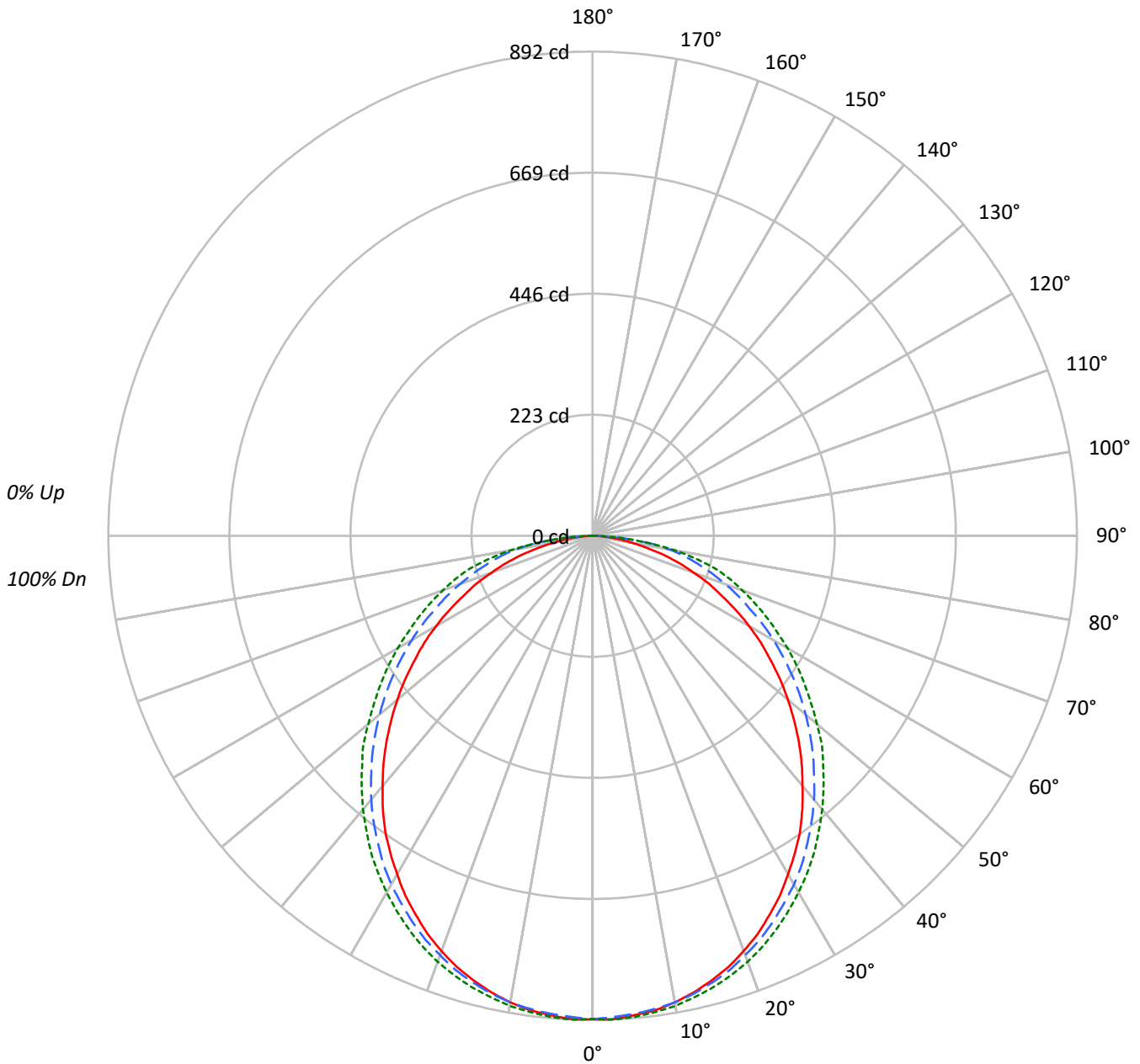
Lumens per Lamp: N/A  
Luminaire Lumens: 2535.0 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1257	1257	1257
5°	1256	1253	1260
10°	1251	1251	1260
15°	1239	1245	1258
20°	1223	1235	1254
25°	1200	1223	1246
30°	1173	1209	1236
35°	1147	1189	1226
40°	1108	1169	1212
45°	1072	1146	1199
50°	1031	1124	1185
55°	985	1104	1173
60°	939	1086	1170
65°	879	1068	1178
70°	814	1073	1209
75°	729	1093	1278
80°	589	1158	1250
85°	444	1017	991



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.3	3.3
10°-20°	240.9	9.5
20°-30°	362.1	14.3
30°-40°	431.4	17.0
40°-50°	441.5	17.4
50°-60°	397.5	15.7
60°-70°	312.1	12.3
70°-80°	202.6	8.0
80°-90°	62.7	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°	687.3	27.1
0°-40°	1118.7	44.1
0°-60°	1957.7	77.2
0°-90°	2535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2535.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	891	891	891	891	891	
5°	886	888	884	889	890	84
15°	848	850	852	859	861	239
25°	771	777	785	798	800	355
35°	666	674	690	707	712	415
45°	537	550	574	596	601	414
55°	400	418	448	472	477	359
65°	263	284	320	346	353	262
75°	134	159	200	228	234	141
85°	27	51	63	61	61	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	890.6	890.6	890.6	890.6	<i>890.6</i>
2.5°	<i>891.4</i>	<i>891.4</i>	<i>887.3</i>	<i>891.4</i>	<i>892.2</i>
5°	886.5	888.2	884.1	889.0	<i>889.7</i>
7.5°	881.7	881.7	879.3	884.1	<i>885.0</i>
10°	872.8	873.6	872.8	878.5	<i>879.3</i>
12.5°	861.6	863.1	864.0	869.6	<i>870.4</i>
15°	847.9	850.3	851.9	859.2	<i>860.8</i>
17.5°	832.6	835.0	839.0	847.0	<i>848.7</i>
20°	814.1	817.3	822.1	832.6	<i>835.0</i>
22.5°	794.0	797.2	805.2	814.8	<i>818.9</i>
25°	770.6	777.0	785.1	798.0	<i>800.4</i>
27.5°	747.2	752.8	763.3	777.0	<i>780.3</i>
30°	719.9	728.7	741.6	755.3	<i>758.5</i>
32.5°	693.3	702.1	717.4	732.0	<i>736.0</i>
35°	665.9	674.0	690.1	707.0	<i>711.8</i>
37.5°	634.5	645.0	662.7	679.6	<i>684.4</i>
40°	601.5	614.4	634.5	652.2	<i>657.9</i>
42.5°	570.1	583.7	603.9	623.2	<i>629.6</i>
45°	537.1	550.0	574.1	595.9	<i>600.7</i>
47.5°	503.2	517.8	543.5	565.2	<i>573.3</i>
50°	469.5	484.8	512.1	534.7	<i>539.5</i>
52.5°	435.6	451.7	480.7	504.9	<i>507.3</i>
55°	400.2	417.9	448.5	471.9	<i>476.7</i>
57.5°	368.0	383.3	416.3	440.5	<i>446.1</i>
60°	332.6	349.5	384.9	407.5	<i>414.6</i>
62.5°	298.7	316.5	353.5	376.0	<i>382.4</i>
65°	263.3	283.5	319.7	346.2	<i>352.7</i>
67.5°	232.7	252.0	290.7	316.5	<i>322.9</i>
70°	197.2	219.1	260.1	286.7	<i>293.1</i>
72.5°	166.7	189.2	230.3	256.0	<i>265.7</i>
75°	133.7	159.4	200.5	227.9	<i>234.3</i>
77.5°	101.5	131.3	173.1	194.0	<i>194.0</i>
80°	72.5	103.9	142.5	152.2	<i>153.8</i>
82.5°	47.5	78.1	105.5	104.7	<i>104.7</i>
85°	27.4	50.7	62.8	61.2	<i>61.2</i>
87.5°	10.5	21.0	22.5	22.5	<i>21.7</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)