

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: P734022

Luminaire Tested: **24FCZ2-30-SQR-B2750-W2D-CP187-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734022  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24FCZ2-30-SQR-B2750-W2D-CP187-3000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND SQR LENS, WITH, CP187 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

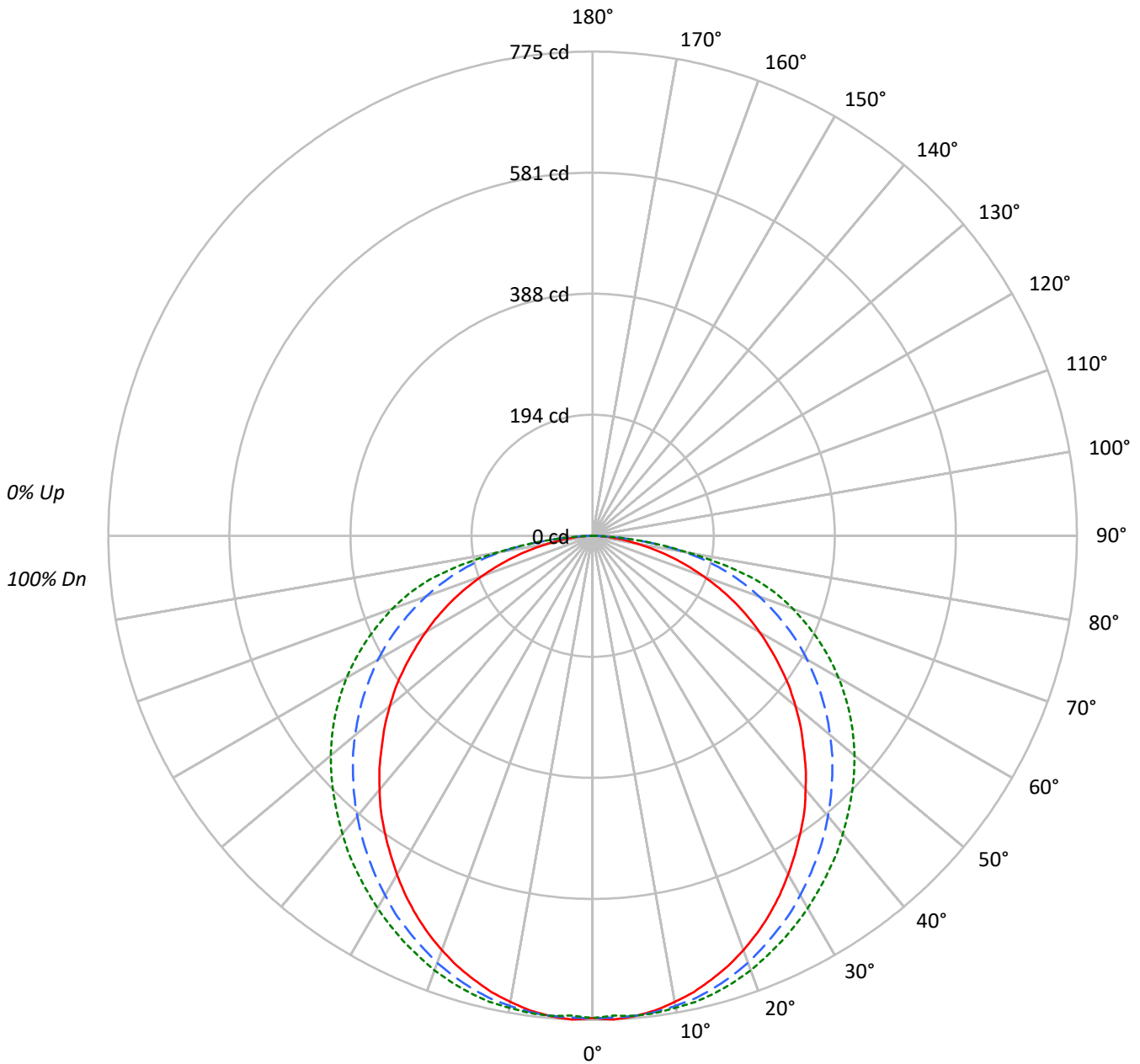
Lumens per Lamp: N/A  
Luminaire Lumens: 2415.0 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 23  
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	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67																			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47																			
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41																			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35																			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

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

	0°	45°	90°
0°	1089	1089	1089
5°	1094	1093	1093
10°	1086	1095	1099
15°	1074	1095	1107
20°	1060	1092	1112
25°	1042	1087	1115
30°	1020	1083	1122
35°	999	1080	1132
40°	977	1080	1148
45°	952	1082	1170
50°	930	1089	1201
55°	903	1101	1238
60°	871	1119	1283
65°	834	1140	1337
70°	773	1168	1405
75°	700	1209	1470
80°	589	1212	1264
85°	452	917	917



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.3	3.0
10°-20°	210.8	8.7
20°-30°	320.2	13.3
30°-40°	389.5	16.1
40°-50°	414.7	17.2
50°-60°	395.0	16.4
60°-70°	330.3	13.7
70°-80°	220.2	9.1
80°-90°	60.9	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°	604.3	25.0
0°-40°	993.8	41.2
0°-60°	1803.5	74.7
0°-90°	2415.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2415.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	772	767	771	771	771	73
15°	735	737	750	755	758	207
25°	669	678	698	710	716	308
35°	580	597	627	648	657	363
45°	477	502	542	573	586	369
55°	367	399	447	486	503	328
65°	250	286	341	384	400	247
75°	128	169	222	259	270	136
85°	28	52	57	56	57	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	771.9	771.9	771.9	771.9	771.9
2.5°	775.1	769.5	771.9	771.9	768.8
5°	771.9	767.1	771.2	771.2	771.2
7.5°	766.4	762.4	768.8	770.4	770.4
10°	757.6	756.1	764.0	766.4	767.1
12.5°	748.1	747.2	758.4	761.5	764.0
15°	735.2	736.9	749.6	755.2	757.6
17.5°	721.7	724.9	739.3	747.2	749.6
20°	705.8	710.6	727.3	735.2	740.1
22.5°	688.3	695.4	712.9	722.5	728.1
25°	669.1	677.8	697.8	709.7	716.2
27.5°	648.4	659.6	682.7	696.1	702.6
30°	626.0	638.7	664.3	680.3	688.3
32.5°	602.9	618.0	646.0	663.5	673.0
35°	579.8	596.6	626.8	647.5	657.1
37.5°	556.6	573.3	606.9	629.2	641.2
40°	530.3	550.2	586.2	610.9	622.9
42.5°	504.8	526.3	564.6	591.7	604.5
45°	476.8	502.4	542.2	572.6	586.2
47.5°	451.4	476.8	520.0	551.9	567.0
50°	423.5	450.5	496.0	531.2	547.1
52.5°	396.3	424.3	472.1	509.6	525.6
55°	366.9	398.7	447.4	486.5	503.2
57.5°	337.3	371.7	421.8	462.5	479.3
60°	308.6	343.7	396.3	437.0	454.6
62.5°	279.9	315.0	370.0	411.4	428.2
65°	249.6	286.3	341.3	383.6	400.4
67.5°	219.3	257.5	312.6	354.9	370.8
70°	187.4	228.1	283.1	324.6	340.6
72.5°	157.9	198.6	252.8	293.5	308.6
75°	128.4	169.0	221.7	259.2	269.6
77.5°	99.7	140.3	187.4	212.2	214.5
80°	72.5	110.9	149.1	156.3	155.5
82.5°	48.6	82.9	102.9	103.6	106.0
85°	27.9	51.8	56.6	55.9	56.6
87.5°	11.2	18.3	16.0	11.9	11.9
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)