

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: P734021

Luminaire Tested: **24FCZ2-30-SQR-B2750-W2D-CP187-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734021  
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-CP187-2700K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND SQR LENS, WITH, CP187 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

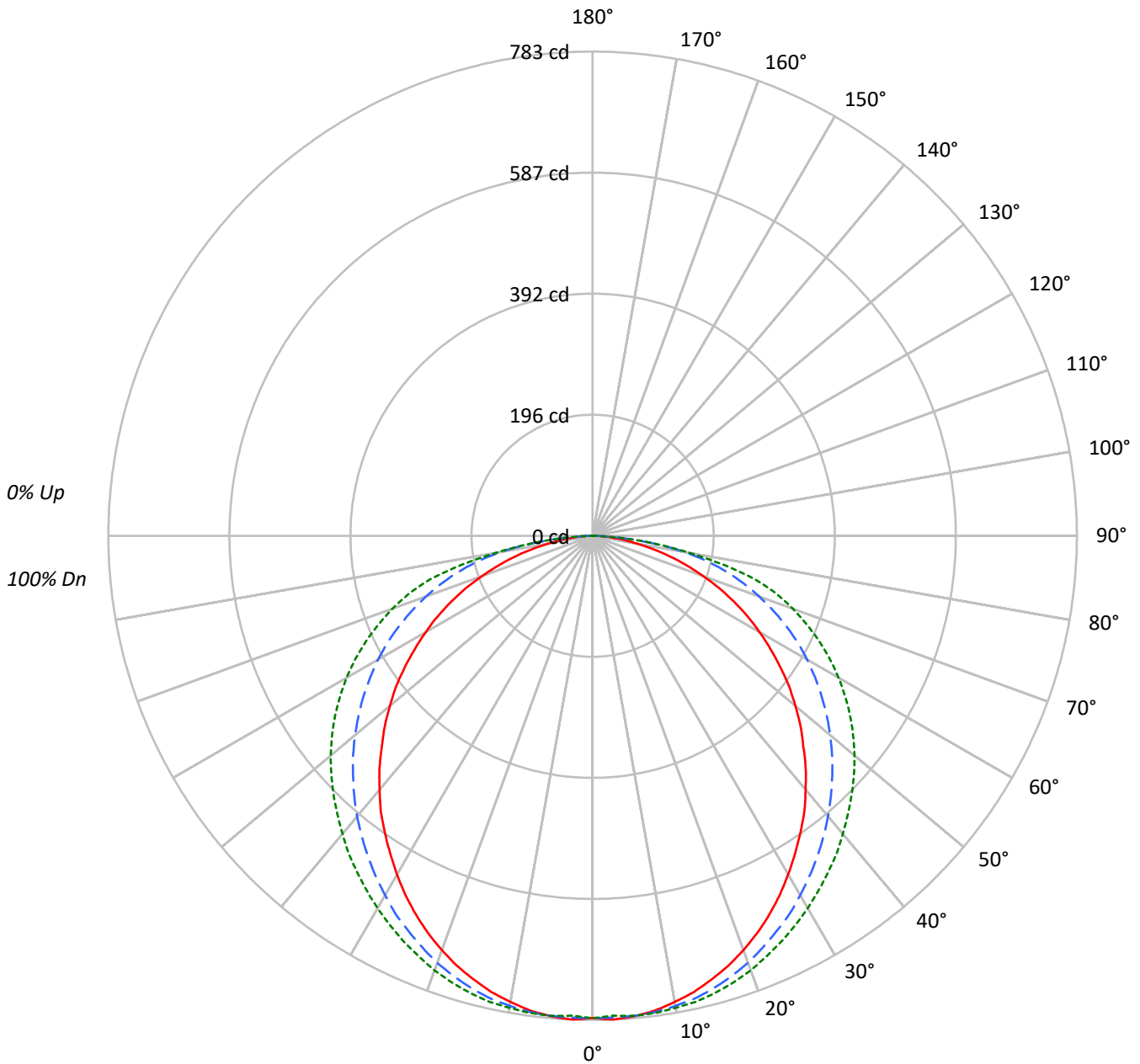
Lumens per Lamp: N/A  
Luminaire Lumens: 2440.0 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1101	1101	1101
5°	1105	1104	1104
10°	1097	1106	1111
15°	1085	1107	1118
20°	1071	1104	1123
25°	1053	1098	1127
30°	1031	1094	1133
35°	1009	1091	1144
40°	987	1091	1159
45°	962	1094	1182
50°	940	1100	1214
55°	912	1112	1251
60°	880	1130	1296
65°	842	1151	1351
70°	781	1181	1420
75°	707	1221	1485
80°	596	1225	1277
85°	457	926	926



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.0	3.0
10°-20°	213.0	8.7
20°-30°	323.5	13.3
30°-40°	393.5	16.1
40°-50°	419.0	17.2
50°-60°	399.1	16.4
60°-70°	333.7	13.7
70°-80°	222.5	9.1
80°-90°	61.6	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°	610.6	25.0
0°-40°	1004.1	41.2
0°-60°	1822.2	74.7
0°-90°	2440.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2440.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	780	780	780	780	780	
5°	780	775	779	779	779	74
15°	743	744	757	763	765	210
25°	676	685	705	717	724	311
35°	586	603	633	654	664	367
45°	482	508	548	578	592	372
55°	371	403	452	492	508	331
65°	252	289	345	388	404	249
75°	130	171	224	262	272	137
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°	779.9	779.9	779.9	779.9	779.9
2.5°	783.1	777.5	779.9	779.9	776.8
5°	779.9	775.1	779.2	779.2	779.2
7.5°	774.4	770.3	776.8	778.3	778.3
10°	765.4	763.9	771.9	774.4	775.1
12.5°	755.8	755.0	766.3	769.4	771.9
15°	742.8	744.5	757.4	763.0	765.4
17.5°	729.2	732.4	746.9	755.0	757.4
20°	713.1	717.9	734.9	742.8	747.8
22.5°	695.4	702.6	720.3	730.0	735.6
25°	676.0	684.8	705.0	717.1	723.6
27.5°	655.1	666.4	689.7	703.4	709.8
30°	632.5	645.3	671.2	687.3	695.4
32.5°	609.1	624.4	652.7	670.4	680.0
35°	585.8	602.7	633.3	654.2	663.9
37.5°	562.4	579.3	613.2	635.7	647.9
40°	535.8	555.9	592.3	617.2	629.3
42.5°	510.1	531.7	570.5	597.8	610.8
45°	481.8	507.6	547.9	578.5	592.3
47.5°	456.0	481.8	525.3	557.6	572.9
50°	427.9	455.2	501.2	536.7	552.8
52.5°	400.4	428.7	477.0	514.9	531.0
55°	370.7	402.8	452.0	491.5	508.4
57.5°	340.8	375.5	426.2	467.3	484.3
60°	311.8	347.2	400.4	441.6	459.3
62.5°	282.8	318.2	373.8	415.7	432.7
65°	252.1	289.2	344.8	387.5	404.5
67.5°	221.6	260.2	315.8	358.5	374.7
70°	189.3	230.5	286.1	328.0	344.1
72.5°	159.6	200.6	255.4	296.5	311.8
75°	129.7	170.8	224.0	261.9	272.4
77.5°	100.7	141.8	189.3	214.3	216.8
80°	73.3	112.0	150.7	157.9	157.1
82.5°	49.1	83.8	104.0	104.7	107.1
85°	28.2	52.4	57.2	56.4	57.2
87.5°	11.3	18.5	16.1	12.0	12.0
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)