

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: P734023

Luminaire Tested: **24FCZ2-30-SQR-B2750-W2D-CP187-3500K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P734023
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-CP187-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SQR LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

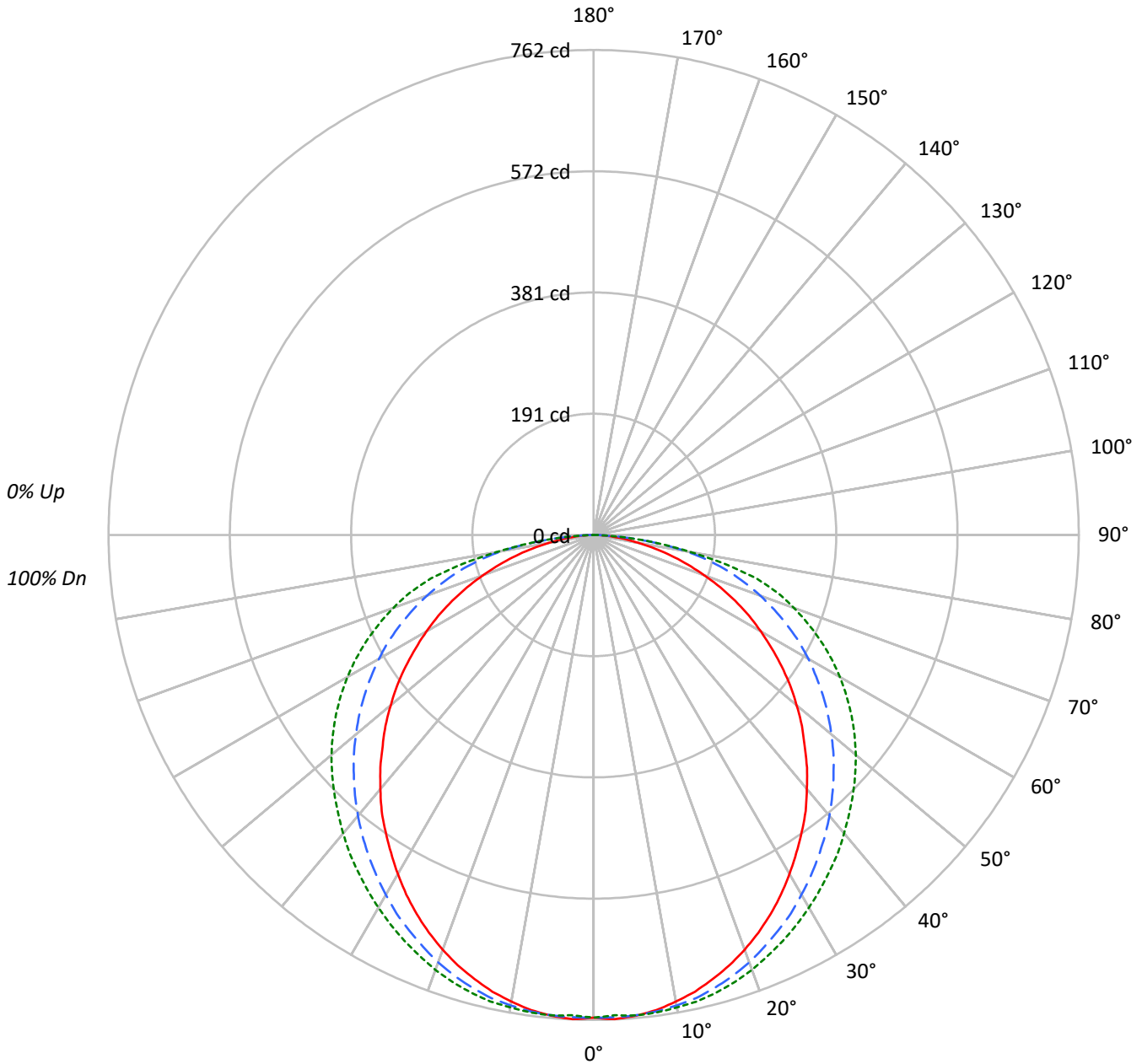
Lumens per Lamp: N/A
Luminaire Lumens: 2373.0 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
Input Voltage (V): NR
Input Current (A_{in}): 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°	1071	1071	1071
5°	1075	1074	1074
10°	1067	1076	1080
15°	1056	1076	1088
20°	1042	1073	1092
25°	1024	1068	1096
30°	1002	1064	1102
35°	982	1061	1112
40°	960	1061	1128
45°	935	1063	1150
50°	914	1070	1180
55°	887	1082	1217
60°	856	1099	1261
65°	819	1120	1314
70°	760	1148	1381
75°	688	1188	1444
80°	579	1191	1242
85°	444	900	900



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	3.0
10°-20°	207.2	8.7
20°-30°	314.7	13.3
30°-40°	382.8	16.1
40°-50°	407.5	17.2
50°-60°	388.1	16.4
60°-70°	324.6	13.7
70°-80°	216.4	9.1
80°-90°	59.9	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°	593.8	25.0
0°-40°	976.6	41.2
0°-60°	1772.2	74.7
0°-90°	2373.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2373.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	758	758	758	758	758	
5°	758	754	758	758	758	72
15°	722	724	737	742	744	204
25°	658	666	686	697	704	303
35°	570	586	616	636	646	356
45°	469	494	533	563	576	362
55°	360	392	440	478	494	322
65°	245	281	335	377	393	242
75°	126	166	218	255	265	134
85°	27	51	56	55	56	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	758.5	758.5	758.5	758.5	758.5
2.5°	761.6	756.1	758.5	758.5	755.4
5°	758.5	753.8	757.8	757.8	757.8
7.5°	753.1	749.1	755.4	757.0	757.0
10°	744.4	742.9	750.7	753.1	753.8
12.5°	735.1	734.2	745.2	748.3	750.7
15°	722.4	724.1	736.6	742.1	744.4
17.5°	709.2	712.3	726.4	734.2	736.6
20°	693.5	698.2	714.7	722.4	727.2
22.5°	676.3	683.3	700.5	709.9	715.4
25°	657.5	666.0	685.7	697.4	703.7
27.5°	637.1	648.1	670.8	684.0	690.4
30°	615.1	627.6	652.8	668.5	676.3
32.5°	592.4	607.3	634.8	652.0	661.3
35°	569.7	586.2	615.9	636.3	645.6
37.5°	547.0	563.4	596.4	618.3	630.1
40°	521.1	540.7	576.0	600.2	612.0
42.5°	496.0	517.1	554.8	581.4	594.0
45°	468.6	493.7	532.8	562.7	576.0
47.5°	443.5	468.6	510.9	542.3	557.2
50°	416.1	442.7	487.4	521.9	537.6
52.5°	389.4	416.9	463.9	500.7	516.4
55°	360.5	391.8	439.6	478.0	494.4
57.5°	331.5	365.2	414.5	454.5	471.0
60°	303.3	337.7	389.4	429.4	446.7
62.5°	275.1	309.5	363.6	404.3	420.8
65°	245.2	281.3	335.4	376.9	393.4
67.5°	215.5	253.1	307.1	348.7	364.4
70°	184.1	224.1	278.2	319.0	334.6
72.5°	155.2	195.1	248.4	288.4	303.3
75°	126.2	166.1	217.8	254.7	264.9
77.5°	98.0	137.9	184.1	208.5	210.8
80°	71.3	109.0	146.5	153.6	152.8
82.5°	47.8	81.5	101.1	101.8	104.2
85°	27.4	50.9	55.6	54.9	55.6
87.5°	11.0	18.0	15.7	11.7	11.7
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)