

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: P734003

Luminaire Tested: **24FCZ2-30-S-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734003
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: 24FCZ2-30-S-B2750-W2D-CP250-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SMOOTH LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

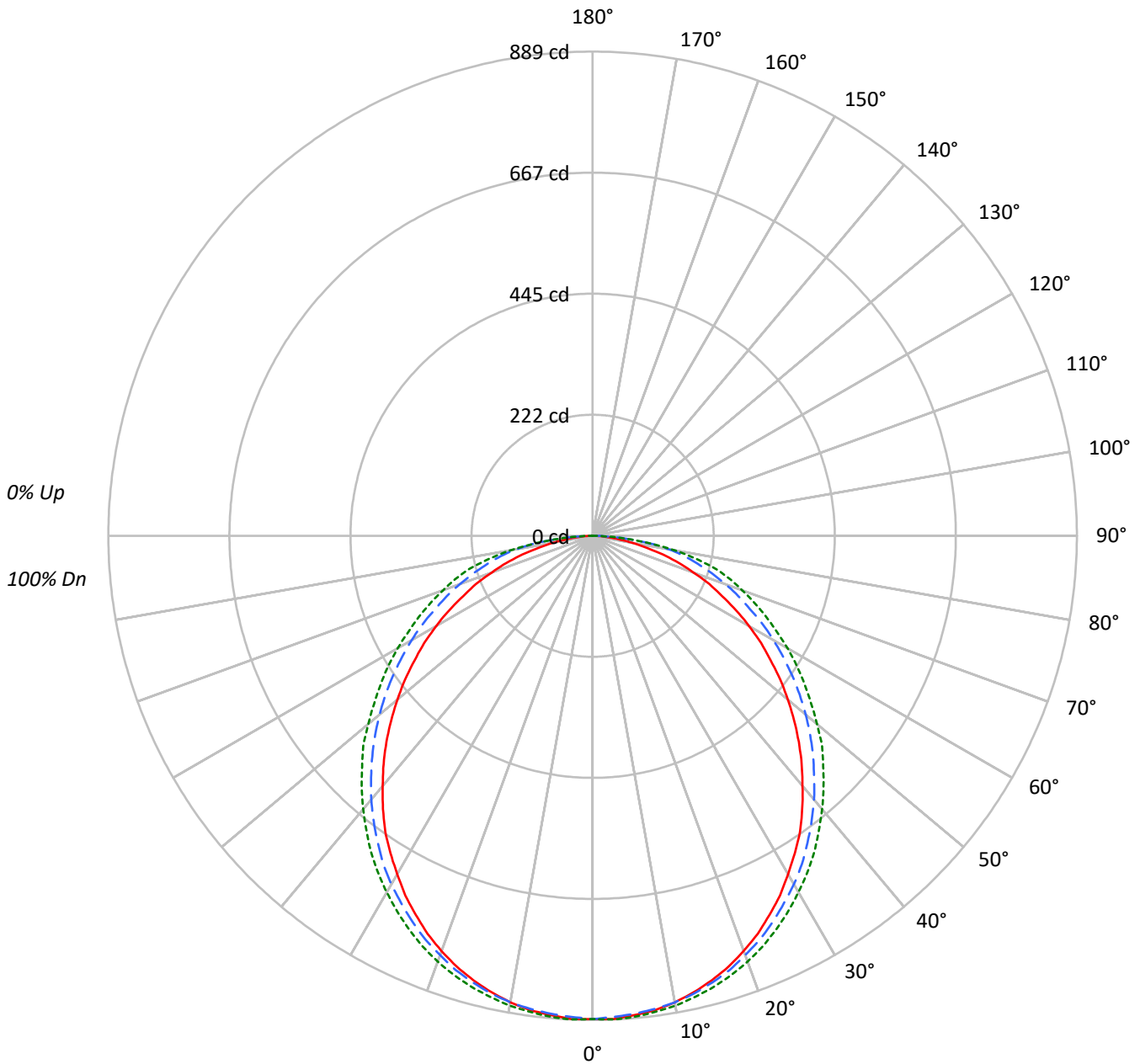
Lumens per Lamp: N/A
Luminaire Lumens: 2526.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P734003

CATALOG NUMBER: 24FCZ2-30-S-B2750-W2D-CP250-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P734003

CATALOG NUMBER: 24FCZ2-30-S-B2750-W2D-CP250-3500K

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°	1252	1252	1252
5°	1252	1248	1256
10°	1247	1247	1256
15°	1235	1240	1253
20°	1218	1230	1250
25°	1196	1218	1242
30°	1169	1204	1232
35°	1143	1185	1222
40°	1104	1165	1208
45°	1068	1142	1195
50°	1027	1120	1180
55°	981	1100	1169
60°	935	1082	1166
65°	876	1064	1174
70°	811	1070	1205
75°	726	1090	1273
80°	587	1154	1245
85°	442	1012	988



TEST NUMBER: P734003

CATALOG NUMBER: 24FCZ2-30-S-B2750-W2D-CP250-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	3.3
10°-20°	240.0	9.5
20°-30°	360.8	14.3
30°-40°	429.8	17.0
40°-50°	439.9	17.4
50°-60°	396.1	15.7
60°-70°	311.0	12.3
70°-80°	201.9	8.0
80°-90°	62.4	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°	684.9	27.1
0°-40°	1114.7	44.1
0°-60°	1950.7	77.2
0°-90°	2526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	887	887	887	887	887	
5°	883	885	881	886	887	84
15°	845	847	849	856	858	238
25°	768	774	782	795	798	354
35°	664	672	688	704	709	414
45°	535	548	572	594	599	413
55°	399	416	447	470	475	358
65°	262	282	318	345	351	261
75°	133	159	200	227	234	141
85°	27	51	62	61	61	33
90°	0	0	0	0	0	



TEST NUMBER: P734003

CATALOG NUMBER: 24FCZ2-30-S-B2750-W2D-CP250-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	887.4	887.4	887.4	887.4	887.4
2.5°	888.2	888.2	884.2	888.2	889.0
5°	883.4	885.0	881.0	885.8	886.6
7.5°	878.5	878.5	876.1	881.0	881.8
10°	869.8	870.5	869.8	875.4	876.1
12.5°	858.5	860.1	861.0	866.6	867.3
15°	844.9	847.3	848.9	856.1	857.8
17.5°	829.6	832.0	836.0	844.0	845.7
20°	811.2	814.4	819.2	829.6	832.0
22.5°	791.2	794.3	802.4	811.9	816.0
25°	767.9	774.2	782.3	795.1	797.5
27.5°	744.6	750.2	760.6	774.2	777.5
30°	717.3	726.1	739.0	752.6	755.8
32.5°	690.8	699.6	714.9	729.4	733.3
35°	663.6	671.6	687.6	704.4	709.3
37.5°	632.2	642.7	660.4	677.2	682.0
40°	599.4	612.2	632.2	649.9	655.5
42.5°	568.0	581.7	601.8	621.0	627.4
45°	535.2	548.0	572.1	593.8	598.6
47.5°	501.4	515.9	541.6	563.2	571.2
50°	467.8	483.1	510.3	532.8	537.6
52.5°	434.1	450.1	479.0	503.1	505.5
55°	398.8	416.5	446.9	470.2	475.0
57.5°	366.7	381.9	414.8	438.9	444.5
60°	331.4	348.2	383.5	406.0	413.2
62.5°	297.7	315.3	352.3	374.7	381.1
65°	262.4	282.5	318.5	345.0	351.4
67.5°	231.9	251.2	289.6	315.3	321.7
70°	196.5	218.3	259.2	285.7	292.0
72.5°	166.1	188.5	229.5	255.1	264.8
75°	133.2	158.8	199.8	227.1	233.5
77.5°	101.1	130.8	172.5	193.3	193.3
80°	72.2	103.5	142.0	151.7	153.2
82.5°	47.4	77.8	105.1	104.3	104.3
85°	27.3	50.6	62.5	61.0	61.0
87.5°	10.4	20.9	22.4	22.4	21.7
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)