

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: P734005

Luminaire Tested: **24FCZ2-30-S-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734005
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-CP250-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND SMOOTH LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

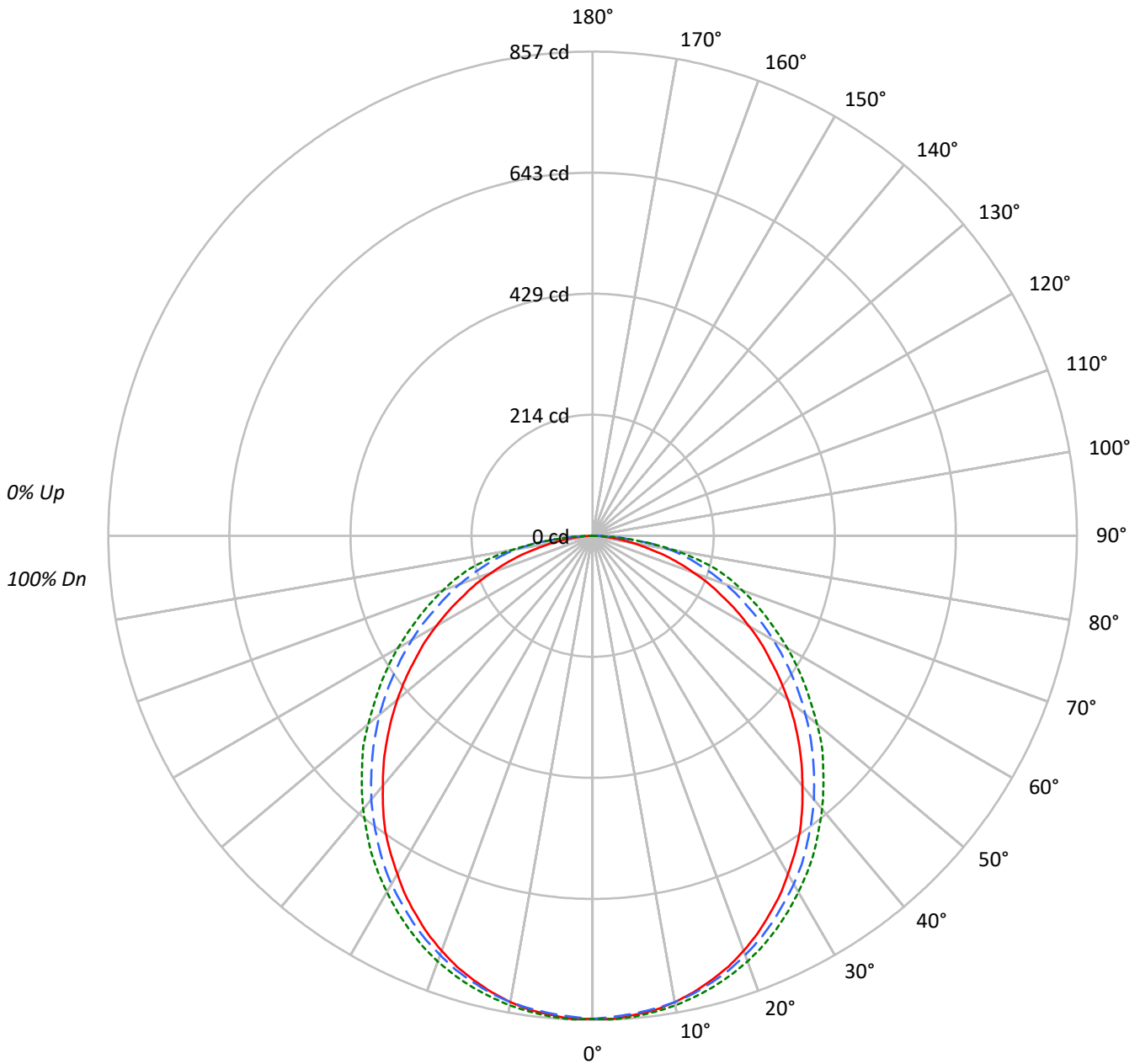
Lumens per Lamp: N/A
Luminaire Lumens: 2434.0 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

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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°	1207	1207	1207
5°	1206	1203	1210
10°	1201	1201	1210
15°	1190	1195	1208
20°	1174	1186	1204
25°	1152	1174	1197
30°	1126	1160	1187
35°	1102	1142	1177
40°	1064	1122	1164
45°	1029	1100	1151
50°	990	1080	1137
55°	945	1060	1126
60°	901	1043	1124
65°	844	1025	1131
70°	782	1030	1161
75°	700	1050	1227
80°	566	1112	1200
85°	426	976	952



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	3.3
10°-20°	231.3	9.5
20°-30°	347.7	14.3
30°-40°	414.2	17.0
40°-50°	423.9	17.4
50°-60°	381.6	15.7
60°-70°	299.7	12.3
70°-80°	194.5	8.0
80°-90°	60.2	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°	660.0	27.1
0°-40°	1074.1	44.1
0°-60°	1879.6	77.2
0°-90°	2434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2434.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	855	855	855	855	855	
5°	851	853	849	854	854	81
15°	814	816	818	825	826	230
25°	740	746	754	766	768	341
35°	639	647	663	679	683	399
45°	516	528	551	572	577	398
55°	384	401	431	453	458	344
65°	253	272	307	332	339	252
75°	128	153	192	219	225	136
85°	26	49	60	59	59	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	855.1	855.1	855.1	855.1	855.1
2.5°	855.9	855.9	852.0	855.9	856.6
5°	851.2	852.8	848.9	853.5	854.3
7.5°	846.6	846.6	844.2	848.9	849.7
10°	838.1	838.8	838.1	843.5	844.2
12.5°	827.3	828.8	829.6	835.0	835.7
15°	814.1	816.5	818.0	824.9	826.5
17.5°	799.4	801.7	805.6	813.3	814.9
20°	781.6	784.7	789.4	799.4	801.7
22.5°	762.3	765.4	773.1	782.4	786.3
25°	739.9	746.0	753.8	766.2	768.5
27.5°	717.4	722.8	732.9	746.0	749.2
30°	691.2	699.7	712.0	725.2	728.2
32.5°	665.7	674.1	688.8	702.8	706.6
35°	639.4	647.1	662.6	678.8	683.4
37.5°	609.2	619.3	636.3	652.5	657.2
40°	577.5	589.9	609.2	626.2	631.7
42.5°	547.4	560.5	579.9	598.4	604.5
45°	515.7	528.1	551.3	572.1	576.8
47.5°	483.2	497.1	521.8	542.7	550.4
50°	450.8	465.5	491.7	513.4	518.0
52.5°	418.2	433.7	461.6	484.8	487.1
55°	384.2	401.3	430.6	453.1	457.7
57.5°	353.3	368.0	399.7	422.9	428.3
60°	319.3	335.5	369.5	391.2	398.1
62.5°	286.8	303.9	339.4	361.1	367.2
65°	252.8	272.2	306.9	332.5	338.6
67.5°	223.5	242.0	279.1	303.9	310.0
70°	189.4	210.3	249.7	275.3	281.4
72.5°	160.0	181.6	221.1	245.8	255.1
75°	128.4	153.0	192.5	218.8	225.0
77.5°	97.4	126.0	166.2	186.3	186.3
80°	69.6	99.8	136.8	146.2	147.6
82.5°	45.6	75.0	101.3	100.5	100.5
85°	26.3	48.7	60.3	58.8	58.8
87.5°	10.1	20.1	21.6	21.6	20.9
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)