

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: P733991

Luminaire Tested: **24FCZ2-30-S-B2750-W2D-CA125-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733991
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-CA125-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND SMOOTH LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

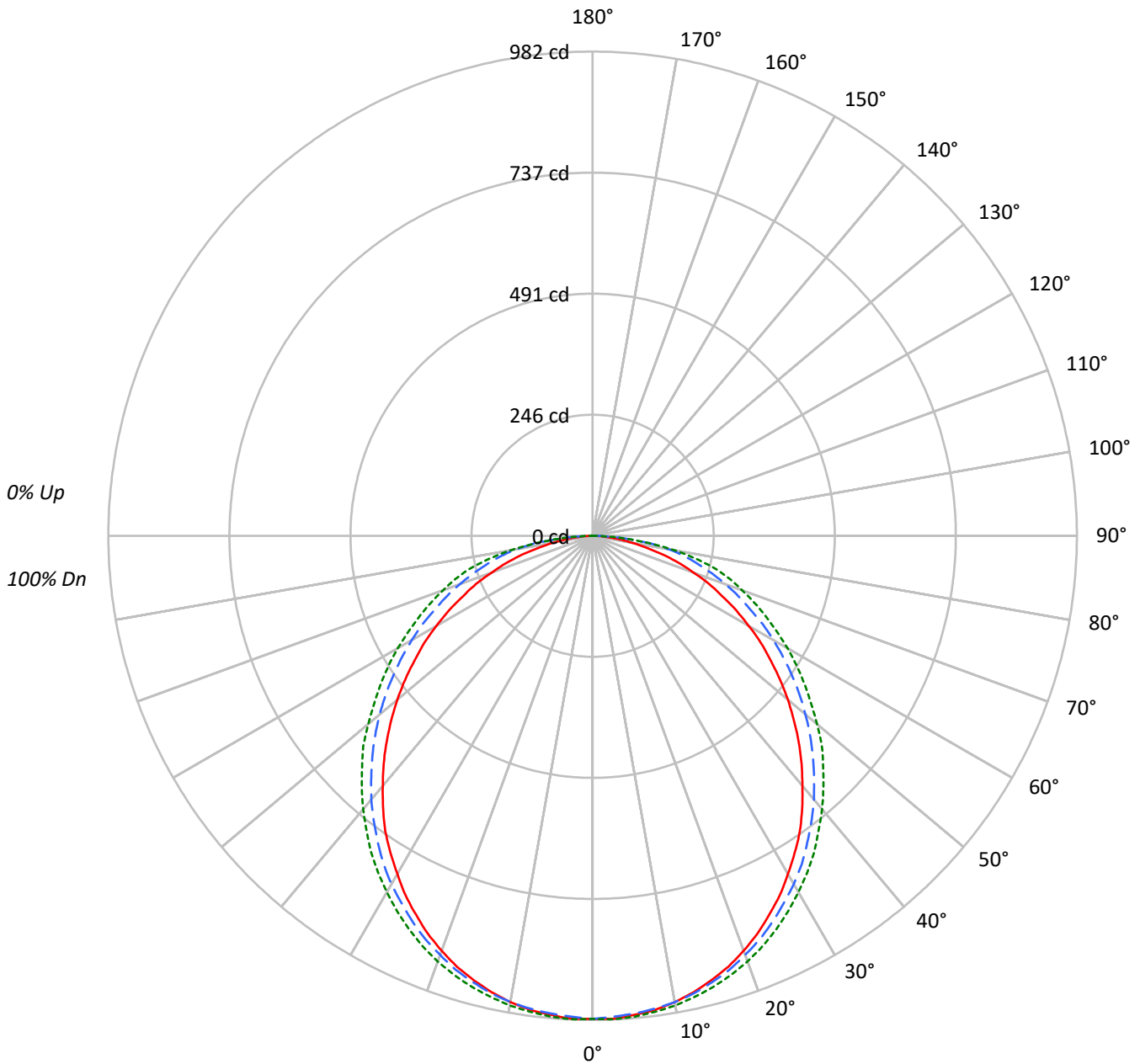
Lumens per Lamp: N/A
Luminaire Lumens: 2789.0 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1383	1383	1383
5°	1382	1378	1387
10°	1376	1376	1386
15°	1363	1370	1384
20°	1345	1358	1380
25°	1320	1345	1371
30°	1291	1330	1360
35°	1262	1308	1349
40°	1219	1286	1334
45°	1179	1261	1319
50°	1134	1237	1303
55°	1083	1214	1291
60°	1033	1195	1288
65°	967	1175	1296
70°	895	1181	1331
75°	802	1203	1406
80°	648	1274	1375
85°	487	1119	1091



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.8	3.3
10°-20°	265.0	9.5
20°-30°	398.4	14.3
30°-40°	474.6	17.0
40°-50°	485.7	17.4
50°-60°	437.3	15.7
60°-70°	343.4	12.3
70°-80°	222.9	8.0
80°-90°	68.9	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°	756.2	27.1
0°-40°	1230.8	44.1
0°-60°	2153.8	77.2
0°-90°	2789.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2789.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	980	980	980	980	980	
5°	975	977	973	978	979	93
15°	933	936	937	945	947	263
25°	848	855	864	878	881	391
35°	733	742	759	778	783	457
45°	591	605	632	656	661	456
55°	440	460	493	519	524	395
65°	290	312	352	381	388	288
75°	147	175	221	251	258	156
85°	30	56	69	67	67	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	979.8	979.8	979.8	979.8	979.8
2.5°	980.7	980.7	976.2	980.7	981.5
5°	975.4	977.2	972.7	978.0	978.9
7.5°	970.0	970.0	967.4	972.7	973.6
10°	960.3	961.2	960.3	966.5	967.4
12.5°	947.9	949.6	950.6	956.8	957.6
15°	932.9	935.5	937.3	945.3	947.1
17.5°	916.0	918.7	923.1	931.9	933.7
20°	895.6	899.1	904.5	916.0	918.7
22.5°	873.5	877.1	885.9	896.5	901.0
25°	847.8	854.9	863.7	877.9	880.6
27.5°	822.1	828.3	839.8	854.9	858.5
30°	792.0	801.7	815.9	830.9	834.5
32.5°	762.7	772.5	789.3	805.3	809.7
35°	732.6	741.5	759.2	777.8	783.1
37.5°	698.1	709.6	729.1	747.7	753.0
40°	661.8	676.0	698.1	717.6	723.8
42.5°	627.2	642.2	664.4	685.7	692.7
45°	590.9	605.1	631.7	655.6	660.9
47.5°	553.6	569.7	597.9	621.8	630.7
50°	516.5	533.4	563.5	588.2	593.6
52.5°	479.2	497.0	528.9	555.5	558.1
55°	440.3	459.8	493.4	519.2	524.5
57.5°	404.9	421.7	458.0	484.6	490.8
60°	365.9	384.5	423.4	448.3	456.2
62.5°	328.6	348.2	388.9	413.7	420.8
65°	289.7	311.9	351.7	380.9	388.0
67.5°	256.1	277.3	319.8	348.2	355.2
70°	217.0	241.0	286.2	315.4	322.5
72.5°	183.4	208.1	253.4	281.7	292.4
75°	147.1	175.4	220.6	250.7	257.8
77.5°	111.6	144.4	190.4	213.5	213.5
80°	79.7	114.3	156.8	167.5	169.2
82.5°	52.3	85.9	116.0	115.2	115.2
85°	30.1	55.8	69.1	67.4	67.4
87.5°	11.5	23.1	24.8	24.8	23.9
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)