

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: P732664

Luminaire Tested: **14FCZ2-29-B2750-W2D-CA08-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275502)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-29-B2750-W2D-CA08-4000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

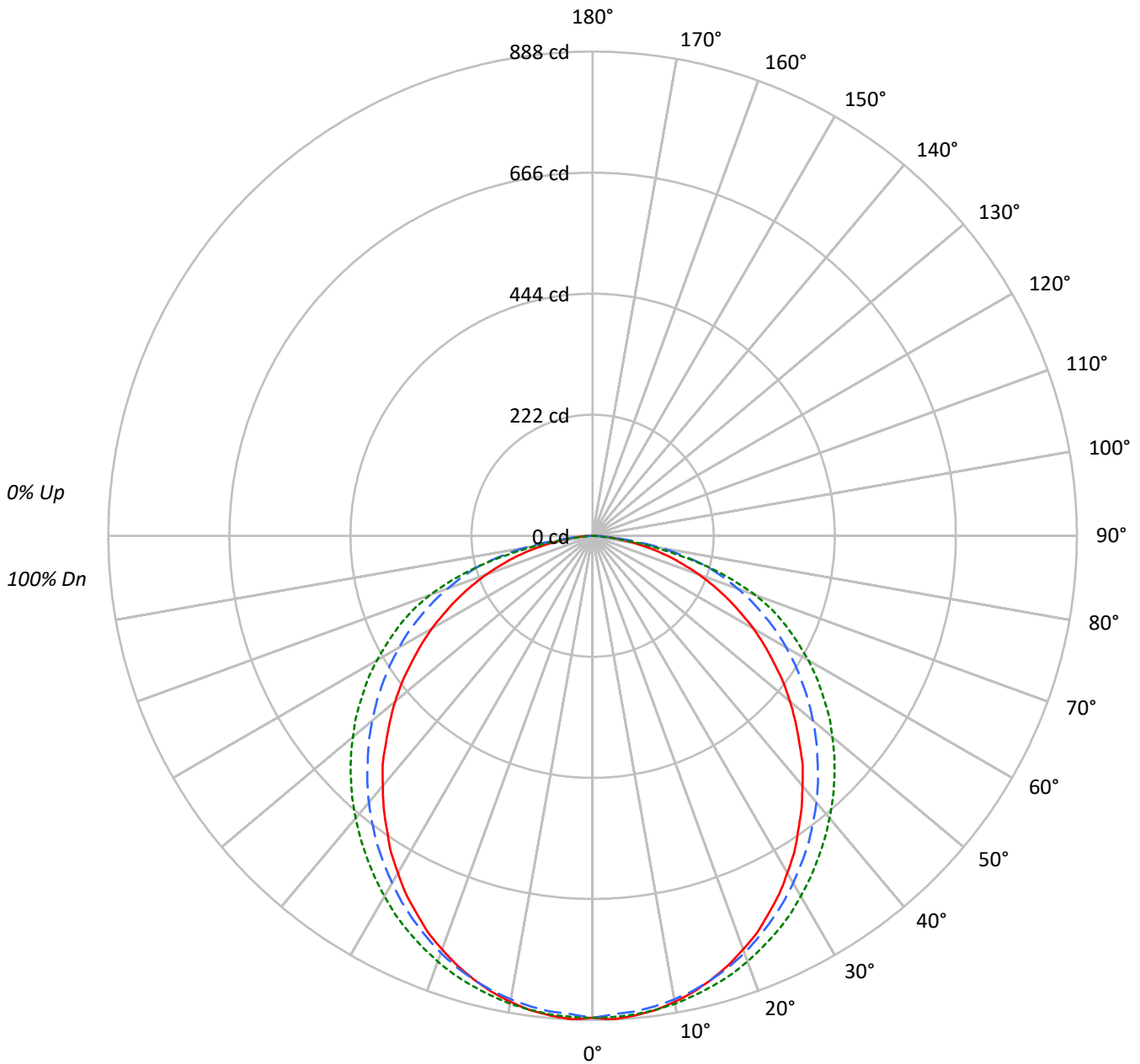
Lumens per Lamp: N/A
Luminaire Lumens: 2566.0 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83																			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	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	79	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32																			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2495	2495	2495
5°	2503	2482	2497
10°	2488	2475	2498
15°	2461	2463	2496
20°	2425	2446	2496
25°	2379	2422	2493
30°	2327	2397	2488
35°	2266	2376	2486
40°	2205	2353	2490
45°	2138	2327	2503
50°	2075	2316	2520
55°	1996	2310	2543
60°	1925	2313	2578
65°	1827	2320	2618
70°	1715	2337	2615
75°	1553	2359	2366
80°	1274	2035	1682
85°	942	965	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	3.3
10°-20°	239.0	9.3
20°-30°	360.0	14.0
30°-40°	432.0	16.8
40°-50°	450.2	17.5
50°-60°	416.8	16.2
60°-70°	336.8	13.1
70°-80°	205.3	8.0
80°-90°	42.4	1.7
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°	682.6	26.6
0°-40°	1114.5	43.4
0°-60°	1981.5	77.2
0°-90°	2566.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2566.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	884	884	884	884	884	
5°	883	881	876	882	881	84
15°	842	843	843	854	854	237
25°	764	768	778	797	800	352
35°	658	668	690	715	721	412
45°	536	552	583	616	627	414
55°	406	427	469	506	517	363
65°	274	300	347	382	392	270
75°	142	174	216	220	217	150
85°	29	44	30	16	12	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	884.0	884.0	884.0	884.0	884.0
2.5°	887.5	884.6	878.3	884.6	883.4
5°	883.4	881.2	876.0	882.3	881.2
7.5°	877.7	875.3	870.8	878.3	877.1
10°	867.9	866.8	863.4	872.0	871.4
12.5°	856.6	856.0	854.2	864.0	863.4
15°	842.3	842.7	842.7	854.2	854.2
17.5°	826.2	827.3	829.7	842.3	844.0
20°	807.3	809.7	814.2	828.6	830.8
22.5°	787.9	789.7	796.4	813.6	816.0
25°	763.8	768.4	777.5	797.1	800.5
27.5°	741.0	744.9	757.5	777.5	783.4
30°	714.0	720.3	735.3	757.0	763.3
32.5°	688.4	695.1	712.3	737.5	743.2
35°	657.5	667.7	689.5	714.7	721.4
37.5°	629.5	639.1	663.8	691.2	699.2
40°	598.4	610.6	638.6	667.7	675.8
42.5°	569.9	581.3	611.7	641.4	652.3
45°	535.6	551.6	583.0	615.6	627.1
47.5°	504.1	520.1	556.2	591.0	601.4
50°	472.6	489.7	527.5	563.6	573.8
52.5°	440.0	458.4	498.9	534.9	547.1
55°	405.6	426.9	469.3	505.8	516.7
57.5°	373.0	394.7	440.0	477.1	488.0
60°	341.0	363.4	409.7	445.2	456.7
62.5°	305.6	331.9	379.9	414.8	423.4
65°	273.5	300.4	347.3	382.1	391.9
67.5°	239.7	268.9	315.8	347.8	357.1
70°	207.8	238.0	283.2	313.0	316.9
72.5°	173.4	204.3	250.0	268.9	268.9
75°	142.4	173.9	216.3	219.7	216.9
77.5°	108.7	143.7	171.1	164.1	157.4
80°	78.4	112.8	125.2	112.8	103.5
82.5°	52.6	81.8	75.5	60.0	53.2
85°	29.1	43.5	29.8	16.5	12.0
87.5°	10.9	9.8	2.8	2.8	2.8
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)