

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: P732663

Luminaire Tested: **14FCZ2-29-B2750-W2D-CA08-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732663
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-CA08-3500K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

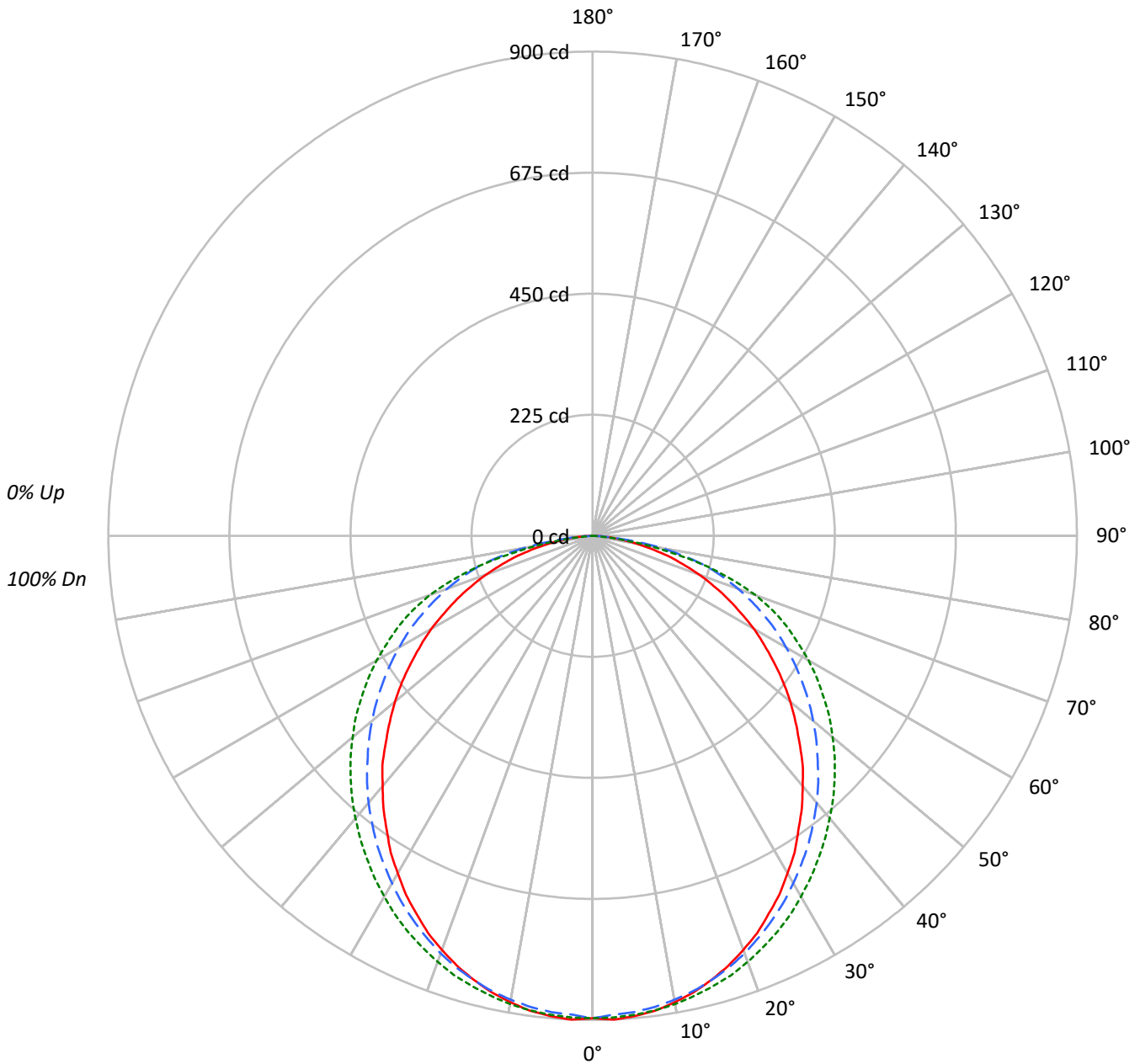
Lumens per Lamp: N/A
Luminaire Lumens: 2603.0 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P732663

CATALOG NUMBER: 14FCZ2-29-B2750-W2D-CA08-3500K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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°	2531	2531	2531
5°	2539	2518	2533
10°	2524	2510	2534
15°	2497	2498	2532
20°	2460	2481	2531
25°	2413	2456	2529
30°	2361	2431	2524
35°	2298	2410	2522
40°	2237	2387	2526
45°	2169	2361	2539
50°	2105	2350	2556
55°	2025	2342	2579
60°	1953	2346	2615
65°	1853	2353	2656
70°	1740	2371	2653
75°	1576	2393	2399
80°	1294	2064	1707
85°	959	978	392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	3.3
10°-20°	242.4	9.3
20°-30°	365.1	14.0
30°-40°	438.2	16.8
40°-50°	456.7	17.5
50°-60°	422.8	16.2
60°-70°	341.6	13.1
70°-80°	208.3	8.0
80°-90°	43.0	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°	692.4	26.6
0°-40°	1130.6	43.4
0°-60°	2010.1	77.2
0°-90°	2603.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2603.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	897	897	897	897	897	
5°	896	894	889	895	894	85
15°	854	855	855	867	867	241
25°	775	780	789	809	812	357
35°	667	677	699	725	732	418
45°	543	560	591	624	636	420
55°	412	433	476	513	524	369
65°	277	305	352	388	398	274
75°	144	176	219	223	220	152
85°	30	44	30	17	12	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	896.8	896.8	896.8	896.8	896.8
2.5°	900.3	897.4	891.0	897.4	896.1
5°	896.1	893.9	888.6	895.0	893.9
7.5°	890.4	888.0	883.3	891.0	889.7
10°	880.5	879.3	875.8	884.6	884.0
12.5°	869.0	868.3	866.6	876.5	875.8
15°	854.4	854.9	854.9	866.6	866.6
17.5°	838.1	839.2	841.6	854.4	856.2
20°	818.9	821.3	826.0	840.5	842.7
22.5°	799.3	801.0	807.9	825.3	827.7
25°	774.8	779.5	788.7	808.6	812.1
27.5°	751.7	755.7	768.4	788.7	794.6
30°	724.3	730.7	745.9	768.0	774.4
32.5°	698.3	705.2	722.6	748.1	753.9
35°	667.0	677.4	699.4	725.0	731.8
37.5°	638.5	648.3	673.4	701.2	709.3
40°	607.1	619.4	647.8	677.4	685.5
42.5°	578.1	589.6	620.5	650.7	661.7
45°	543.3	559.6	591.4	624.5	636.1
47.5°	511.3	527.6	564.2	599.5	610.1
50°	479.4	496.8	535.1	571.7	582.1
52.5°	446.3	465.0	506.1	542.7	555.0
55°	411.5	433.0	476.0	513.1	524.1
57.5°	378.4	400.4	446.3	484.0	495.0
60°	346.0	368.6	415.6	451.6	463.2
62.5°	310.0	336.7	385.4	420.7	429.5
65°	277.4	304.7	352.3	387.7	397.6
67.5°	243.2	272.8	320.4	352.8	362.2
70°	210.8	241.4	287.3	317.5	321.5
72.5°	175.9	207.3	253.6	272.8	272.8
75°	144.5	176.4	219.4	222.9	220.0
77.5°	110.3	145.7	173.5	166.5	159.6
80°	79.6	114.4	127.0	114.4	105.0
82.5°	53.4	82.9	76.5	60.9	54.0
85°	29.6	44.1	30.2	16.8	12.1
87.5°	11.0	9.9	2.9	2.9	2.9
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)