

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: P732661

Luminaire Tested: **14FCZ2-29-B2750-W2D-CA08-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732661
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-CA08-2700K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

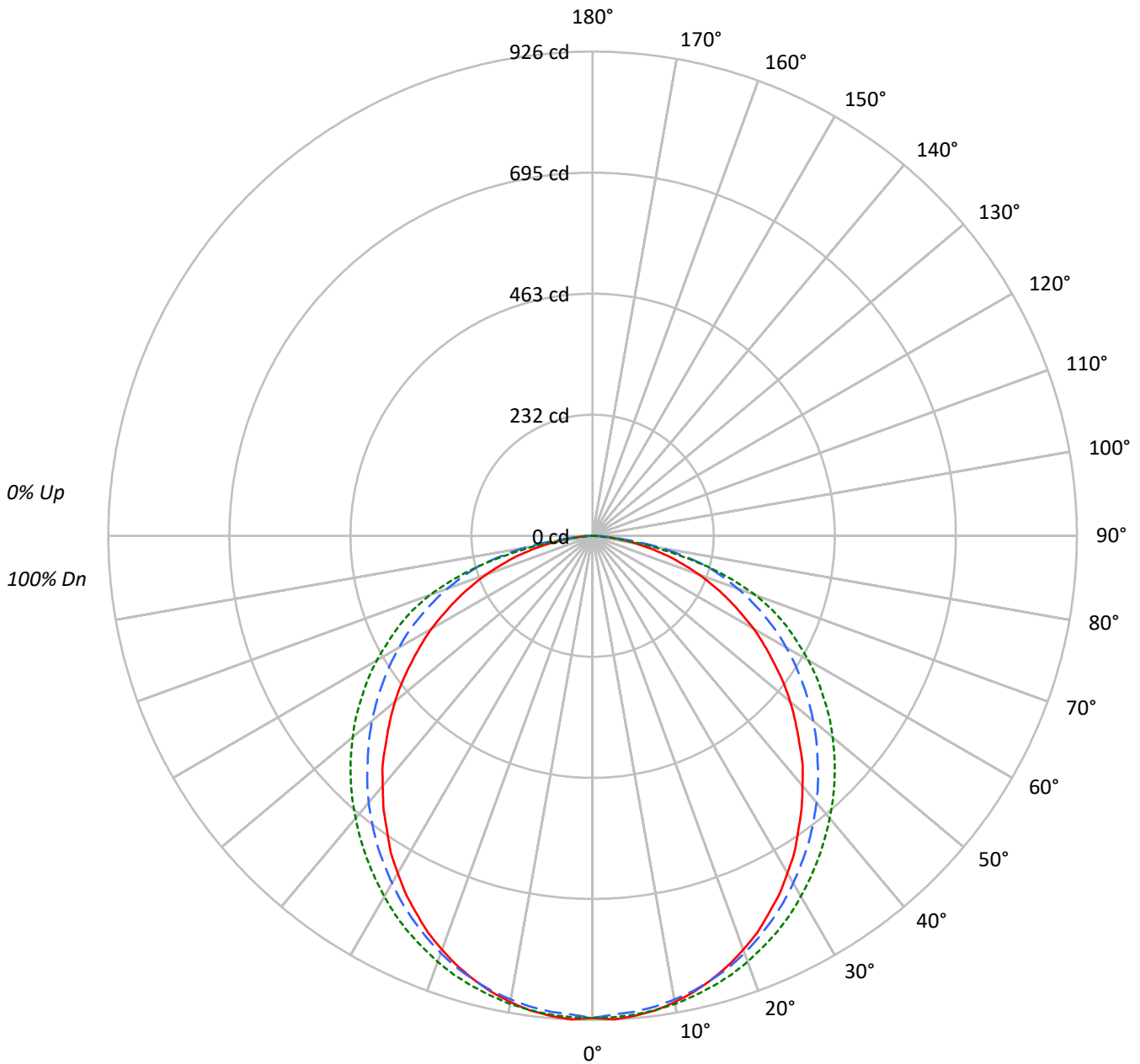
Lumens per Lamp: N/A
Luminaire Lumens: 2677.0 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	2603	2603	2603
5°	2611	2590	2605
10°	2595	2582	2606
15°	2568	2569	2604
20°	2530	2551	2603
25°	2482	2526	2601
30°	2428	2500	2596
35°	2364	2479	2594
40°	2300	2455	2598
45°	2230	2428	2611
50°	2165	2417	2629
55°	2083	2409	2653
60°	2009	2413	2689
65°	1906	2420	2731
70°	1789	2439	2728
75°	1621	2460	2468
80°	1330	2123	1756
85°	985	1007	405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.3	3.3
10°-20°	249.3	9.3
20°-30°	375.5	14.0
30°-40°	450.6	16.8
40°-50°	469.7	17.5
50°-60°	434.8	16.2
60°-70°	351.3	13.1
70°-80°	214.2	8.0
80°-90°	44.2	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°	712.1	26.6
0°-40°	1162.7	43.4
0°-60°	2067.3	77.2
0°-90°	2677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2677.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	922	922	922	922	922	
5°	922	919	914	920	919	87
15°	879	879	879	891	891	248
25°	797	802	811	832	835	367
35°	686	697	719	746	753	430
45°	559	576	608	642	654	432
55°	423	445	490	528	539	379
65°	285	313	362	399	409	282
75°	149	181	226	229	226	156
85°	30	45	31	17	12	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	922.2	922.2	922.2	922.2	922.2
2.5°	925.9	922.9	916.3	922.9	921.6
5°	921.6	919.3	913.9	920.4	919.3
7.5°	915.7	913.2	908.4	916.3	915.0
10°	905.5	904.3	900.7	909.8	909.1
12.5°	893.7	893.0	891.2	901.4	900.7
15°	878.7	879.2	879.2	891.2	891.2
17.5°	861.9	863.1	865.6	878.7	880.5
20°	842.2	844.7	849.4	864.4	866.7
22.5°	822.0	823.8	830.9	848.8	851.3
25°	796.9	801.6	811.2	831.5	835.2
27.5°	773.0	777.1	790.3	811.2	817.2
30°	744.9	751.5	767.1	789.8	796.4
32.5°	718.1	725.2	743.1	769.4	775.3
35°	685.9	696.6	719.3	745.6	752.7
37.5°	656.7	666.7	692.5	721.1	729.5
40°	624.3	637.0	666.2	696.6	705.0
42.5°	594.6	606.4	638.1	669.2	680.5
45°	558.7	575.5	608.2	642.2	654.2
47.5°	525.9	542.6	580.3	616.6	627.4
50°	493.0	510.9	550.4	588.0	598.7
52.5°	459.0	478.2	520.4	558.1	570.7
55°	423.2	445.3	489.6	527.7	539.0
57.5°	389.1	411.8	459.0	497.8	509.1
60°	355.8	379.1	427.4	464.4	476.4
62.5°	318.8	346.3	396.4	432.7	441.7
65°	285.3	313.4	362.4	398.7	408.9
67.5°	250.1	280.5	329.5	362.9	372.5
70°	216.8	248.3	295.5	326.5	330.6
72.5°	180.9	213.1	260.8	280.5	280.5
75°	148.6	181.4	225.6	229.2	226.3
77.5°	113.4	149.9	178.5	171.2	164.2
80°	81.8	117.7	130.6	117.7	108.0
82.5°	54.9	85.3	78.7	62.6	55.5
85°	30.4	45.4	31.1	17.3	12.5
87.5°	11.3	10.2	3.0	3.0	3.0
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)