

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: P732676

Luminaire Tested: **14FCZ2-29-B2750-W2D-CP250-2700K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732676
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-CP250-2700K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RIBBED LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

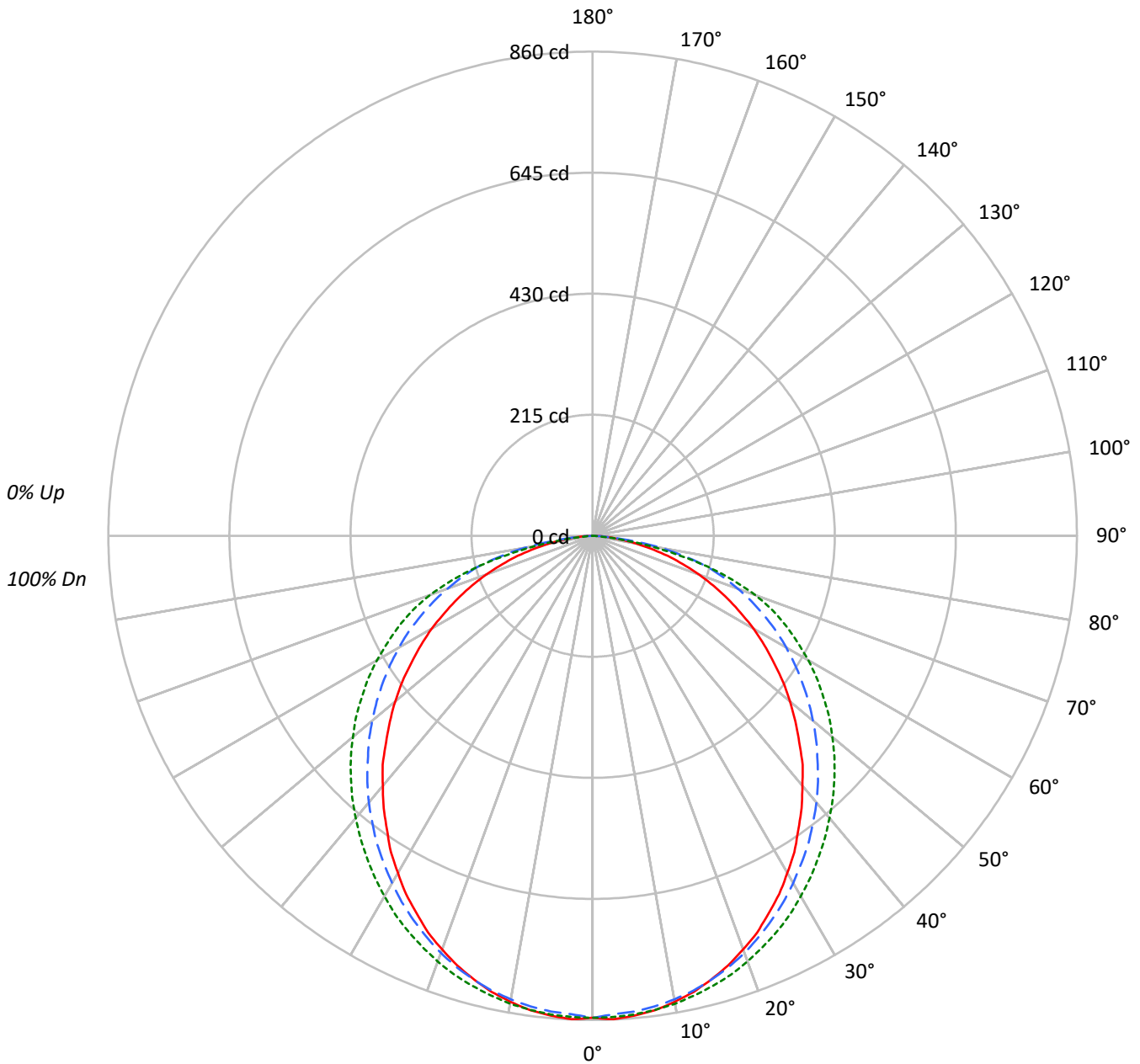
Lumens per Lamp: N/A
Luminaire Lumens: 2485.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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					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°	2416	2416	2416
5°	2424	2404	2418
10°	2409	2396	2419
15°	2384	2385	2418
20°	2348	2369	2417
25°	2304	2345	2415
30°	2254	2321	2410
35°	2194	2301	2408
40°	2135	2279	2411
45°	2071	2254	2424
50°	2009	2244	2440
55°	1933	2236	2463
60°	1865	2240	2496
65°	1769	2247	2535
70°	1660	2264	2533
75°	1504	2284	2291
80°	1235	1972	1629
85°	913	933	376



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	3.3
10°-20°	231.4	9.3
20°-30°	348.6	14.0
30°-40°	418.3	16.8
40°-50°	436.0	17.5
50°-60°	403.6	16.2
60°-70°	326.1	13.1
70°-80°	198.8	8.0
80°-90°	41.0	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°	661.0	26.6
0°-40°	1079.3	43.4
0°-60°	1919.0	77.2
0°-90°	2485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2485.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	856	853	848	854	853	81
15°	816	816	816	827	827	230
25°	740	744	753	772	775	341
35°	637	647	668	692	699	399
45°	519	534	565	596	607	401
55°	393	413	454	490	500	352
65°	265	291	336	370	380	262
75°	138	168	209	213	210	145
85°	28	42	29	16	12	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	856.1	856.1	856.1	856.1	856.1
2.5°	859.5	856.7	850.6	856.7	855.5
5°	855.5	853.4	848.3	854.4	853.4
7.5°	850.0	847.7	843.3	850.6	849.4
10°	840.5	839.5	836.1	844.5	843.9
12.5°	829.6	829.0	827.3	836.7	836.1
15°	815.7	816.1	816.1	827.3	827.3
17.5°	800.1	801.2	803.5	815.7	817.4
20°	781.8	784.1	788.5	802.4	804.5
22.5°	763.0	764.7	771.3	787.9	790.2
25°	739.7	744.1	753.0	771.9	775.3
27.5°	717.6	721.4	733.6	753.0	758.6
30°	691.5	697.6	712.1	733.1	739.3
32.5°	666.6	673.2	689.8	714.2	719.7
35°	636.7	646.7	667.7	692.1	698.7
37.5°	609.6	618.9	642.8	669.4	677.2
40°	579.5	591.3	618.4	646.7	654.4
42.5°	551.9	562.9	592.3	621.2	631.7
45°	518.7	534.2	564.6	596.2	607.3
47.5°	488.2	503.7	538.6	572.4	582.4
50°	457.6	474.3	510.9	545.8	555.7
52.5°	426.1	443.9	483.1	518.1	529.8
55°	392.8	413.4	454.4	489.8	500.4
57.5°	361.2	382.3	426.1	462.1	472.6
60°	330.3	351.9	396.8	431.1	442.2
62.5°	295.9	321.4	367.9	401.7	410.1
65°	264.8	290.9	336.4	370.1	379.5
67.5°	232.2	260.4	305.9	336.8	345.8
70°	201.2	230.5	274.3	303.1	306.9
72.5°	168.0	197.9	242.1	260.4	260.4
75°	137.9	168.4	209.4	212.8	210.1
77.5°	105.3	139.1	165.7	159.0	152.4
80°	76.0	109.2	121.3	109.2	100.2
82.5°	51.0	79.2	73.1	58.1	51.6
85°	28.2	42.1	28.8	16.0	11.6
87.5°	10.5	9.5	2.7	2.7	2.7
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)