

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: P732673

Luminaire Tested: **14FCZ2-29-B2750-W2D-CP187-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732673
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-CP187-3500K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RIBBED LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

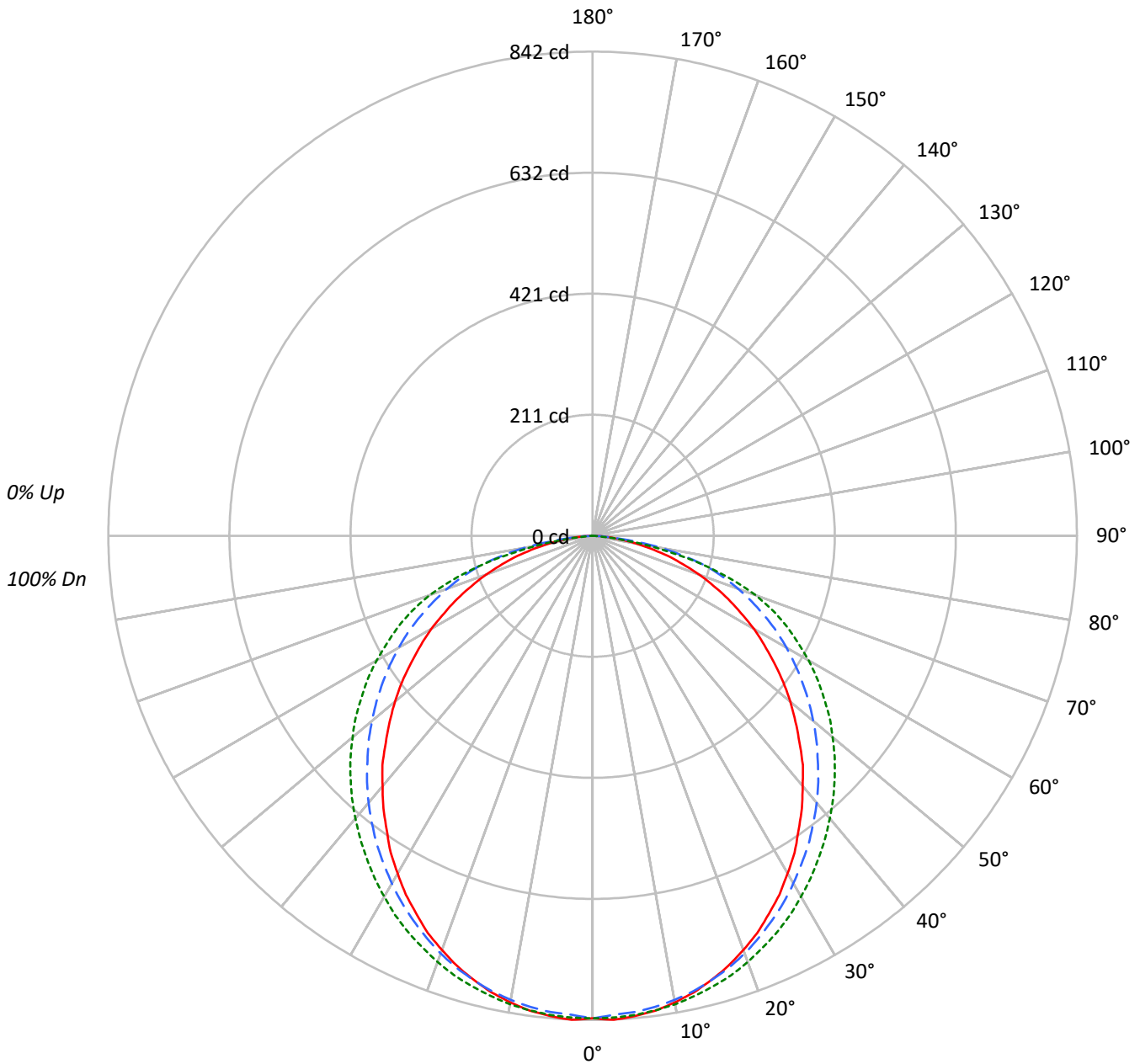
Lumens per Lamp: N/A
Luminaire Lumens: 2436.0 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	2369	2369	2369
5°	2376	2356	2370
10°	2362	2349	2371
15°	2337	2338	2370
20°	2302	2322	2369
25°	2258	2299	2367
30°	2210	2275	2362
35°	2151	2255	2360
40°	2093	2234	2364
45°	2029	2210	2376
50°	1970	2199	2392
55°	1895	2192	2414
60°	1828	2196	2447
65°	1734	2202	2485
70°	1627	2219	2483
75°	1474	2239	2246
80°	1211	1933	1596
85°	897	917	369



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.4	3.3
10°-20°	226.8	9.3
20°-30°	341.7	14.0
30°-40°	410.1	16.8
40°-50°	427.4	17.5
50°-60°	395.7	16.2
60°-70°	319.7	13.1
70°-80°	194.9	8.0
80°-90°	40.2	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°	648.0	26.6
0°-40°	1058.1	43.4
0°-60°	1881.2	77.2
0°-90°	2436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2436.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	839	839	839	839	839	
5°	839	836	832	838	836	80
15°	800	800	800	811	811	225
25°	725	730	738	757	760	334
35°	624	634	654	678	685	391
45°	508	524	554	584	595	393
55°	385	405	446	480	490	345
65°	260	285	330	363	372	257
75°	135	165	205	209	206	142
85°	28	41	28	16	11	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	839.2	839.2	839.2	839.2	839.2
2.5°	842.5	839.8	833.8	839.8	838.6
5°	838.6	836.5	831.6	837.6	836.5
7.5°	833.2	831.0	826.7	833.8	832.6
10°	824.0	822.9	819.6	827.9	827.3
12.5°	813.2	812.6	811.0	820.2	819.6
15°	799.6	800.0	800.0	811.0	811.0
17.5°	784.3	785.4	787.6	799.6	801.2
20°	766.4	768.6	773.0	786.6	788.7
22.5°	748.0	749.6	756.1	772.4	774.6
25°	725.1	729.5	738.1	756.7	760.0
27.5°	703.4	707.2	719.1	738.1	743.7
30°	677.9	683.8	698.1	718.7	724.7
32.5°	653.5	659.9	676.2	700.1	705.5
35°	624.2	633.9	654.5	678.5	684.9
37.5°	597.6	606.7	630.2	656.2	663.8
40°	568.1	579.6	606.2	633.9	641.5
42.5°	541.0	551.8	580.7	608.9	619.2
45°	508.4	523.7	553.5	584.4	595.3
47.5°	478.5	493.8	528.0	561.1	570.9
50°	448.6	464.9	500.8	535.1	544.8
52.5°	417.7	435.2	473.6	507.8	519.4
55°	385.1	405.3	445.5	480.2	490.5
57.5°	354.1	374.7	417.7	453.0	463.3
60°	323.8	345.0	389.0	422.6	433.5
62.5°	290.1	315.1	360.7	393.7	402.0
65°	259.6	285.2	329.7	362.8	372.1
67.5°	227.6	255.3	299.8	330.2	339.0
70°	197.2	226.0	268.9	297.1	300.9
72.5°	164.6	194.0	237.3	255.3	255.3
75°	135.2	165.1	205.3	208.6	205.9
77.5°	103.2	136.4	162.4	155.8	149.4
80°	74.5	107.1	118.9	107.1	98.2
82.5°	49.9	77.6	71.6	57.0	50.5
85°	27.7	41.3	28.3	15.7	11.4
87.5°	10.3	9.3	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)