

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: P732671

Luminaire Tested: **14FCZ2-29-B2750-W2D-CP187-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732671
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-CP187-2700K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RIBBED LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

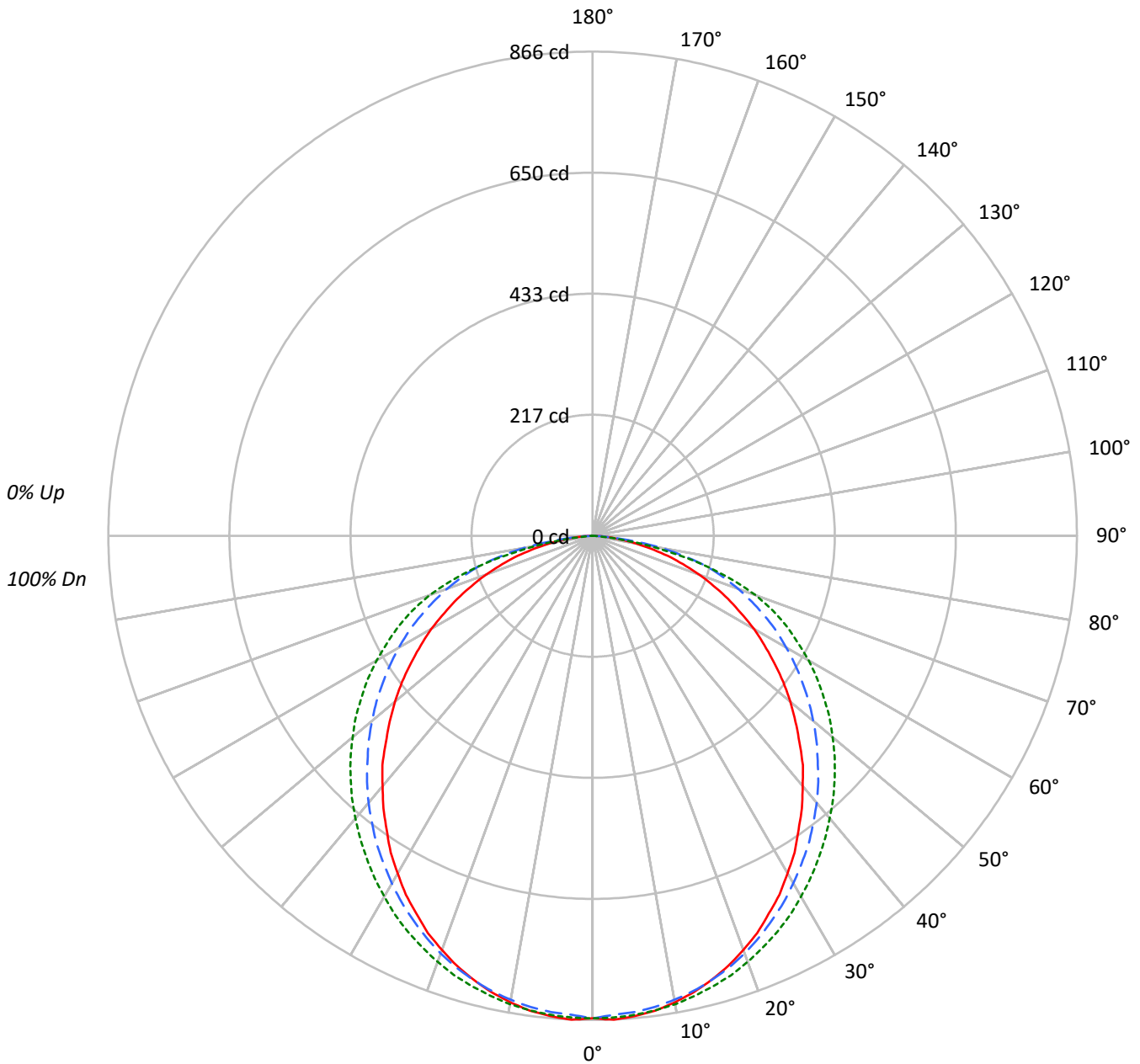
Lumens per Lamp: N/A
Luminaire Lumens: 2505.0 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	2436	2436	2436
5°	2444	2423	2437
10°	2429	2416	2438
15°	2403	2404	2437
20°	2367	2388	2436
25°	2322	2364	2434
30°	2272	2340	2429
35°	2212	2319	2427
40°	2153	2297	2431
45°	2087	2272	2444
50°	2026	2262	2460
55°	1949	2254	2482
60°	1879	2258	2517
65°	1783	2265	2555
70°	1674	2282	2553
75°	1516	2302	2310
80°	1245	1988	1642
85°	920	942	379



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	3.3
10°-20°	233.3	9.3
20°-30°	351.4	14.0
30°-40°	421.7	16.8
40°-50°	439.5	17.5
50°-60°	406.9	16.2
60°-70°	328.8	13.1
70°-80°	200.4	8.0
80°-90°	41.4	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°	666.3	26.6
0°-40°	1088.0	43.4
0°-60°	1934.4	77.2
0°-90°	2505.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2505.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	863	863	863	863	863	
5°	862	860	855	861	860	82
15°	822	823	823	834	834	232
25°	746	750	759	778	782	344
35°	642	652	673	698	704	402
45°	523	538	569	601	612	404
55°	396	417	458	494	504	355
65°	267	293	339	373	383	264
75°	139	170	211	214	212	146
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°	863.0	863.0	863.0	863.0	863.0
2.5°	866.4	863.6	857.5	863.6	862.4
5°	862.4	860.2	855.2	861.3	860.2
7.5°	856.8	854.5	850.1	857.5	856.2
10°	847.3	846.2	842.8	851.3	850.7
12.5°	836.2	835.6	833.9	843.5	842.8
15°	822.2	822.7	822.7	833.9	833.9
17.5°	806.6	807.6	809.9	822.2	823.9
20°	788.1	790.4	794.9	808.9	811.0
22.5°	769.2	770.9	777.5	794.3	796.6
25°	745.7	750.1	759.0	778.1	781.5
27.5°	723.4	727.2	739.5	759.0	764.7
30°	697.1	703.2	717.8	739.1	745.2
32.5°	672.0	678.6	695.4	720.0	725.5
35°	641.9	651.9	673.1	697.7	704.3
37.5°	614.5	623.9	648.0	674.8	682.6
40°	584.2	596.0	623.4	651.9	659.7
42.5°	556.4	567.4	597.1	626.2	636.8
45°	522.8	538.5	569.1	601.0	612.2
47.5°	492.1	507.8	543.0	577.0	587.1
50°	461.3	478.1	515.0	550.2	560.2
52.5°	429.5	447.5	487.0	522.2	534.1
55°	396.0	416.7	458.1	493.8	504.4
57.5°	364.1	385.4	429.5	465.8	476.4
60°	332.9	354.8	400.0	434.6	445.8
62.5°	298.3	324.0	370.9	404.9	413.4
65°	267.0	293.3	339.1	373.1	382.6
67.5°	234.0	262.5	308.3	339.5	348.6
70°	202.8	232.4	276.5	305.6	309.4
72.5°	169.3	199.4	244.0	262.5	262.5
75°	139.0	169.8	211.1	214.5	211.8
77.5°	106.1	140.2	167.0	160.2	153.6
80°	76.6	110.1	122.3	110.1	101.0
82.5°	51.4	79.8	73.7	58.6	52.0
85°	28.4	42.4	29.1	16.1	11.7
87.5°	10.6	9.5	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)