

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: P732672

Luminaire Tested: **14FCZ2-29-B2750-W2D-CP187-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732672
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-CP187-3000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RIBBED LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

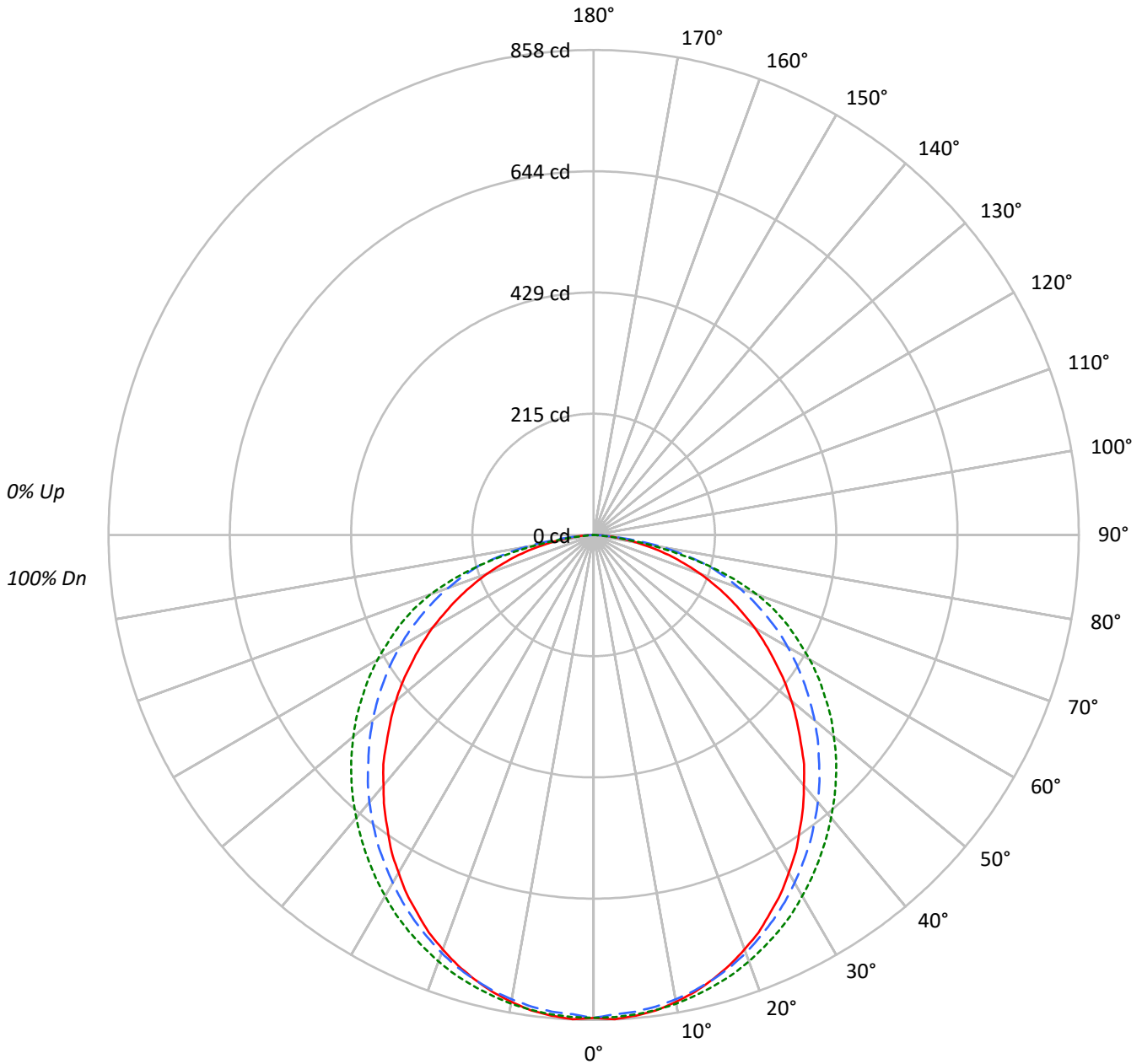
Lumens per Lamp: N/A
Luminaire Lumens: 2480.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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: P732672

CATALOG NUMBER: 14FCZ2-29-B2750-W2D-CP187-3000K

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	90	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°	2412	2412	2412
5°	2419	2399	2413
10°	2404	2392	2414
15°	2379	2380	2413
20°	2344	2364	2412
25°	2299	2341	2410
30°	2249	2316	2405
35°	2190	2296	2403
40°	2131	2274	2407
45°	2066	2249	2419
50°	2006	2239	2435
55°	1929	2232	2458
60°	1861	2236	2491
65°	1765	2242	2530
70°	1657	2259	2528
75°	1501	2279	2286
80°	1232	1967	1626
85°	913	933	376



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	3.3
10°-20°	230.9	9.3
20°-30°	347.9	14.0
30°-40°	417.5	16.8
40°-50°	435.1	17.5
50°-60°	402.8	16.2
60°-70°	325.5	13.1
70°-80°	198.4	8.0
80°-90°	40.9	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°	659.7	26.6
0°-40°	1077.2	43.4
0°-60°	1915.1	77.2
0°-90°	2480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2480.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	854	854	854	854	854	
5°	854	852	847	853	852	81
15°	814	814	814	826	826	229
25°	738	743	752	770	774	340
35°	636	645	666	691	697	398
45°	518	533	563	595	606	400
55°	392	413	454	489	499	351
65°	264	290	336	369	379	261
75°	138	168	209	212	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°	854.4	854.4	854.4	854.4	854.4
2.5°	857.7	855.0	848.9	855.0	853.8
5°	853.8	851.6	846.6	852.7	851.6
7.5°	848.3	846.0	841.6	848.9	847.7
10°	838.9	837.8	834.4	842.8	842.2
12.5°	827.9	827.3	825.6	835.0	834.4
15°	814.0	814.5	814.5	825.6	825.6
17.5°	798.5	799.6	801.9	814.0	815.7
20°	780.2	782.5	786.9	800.8	802.9
22.5°	761.5	763.2	769.7	786.3	788.6
25°	738.2	742.6	751.5	770.3	773.7
27.5°	716.1	720.0	732.1	751.5	757.1
30°	690.1	696.2	710.7	731.7	737.8
32.5°	665.3	671.8	688.4	712.8	718.3
35°	635.5	645.4	666.4	690.7	697.3
37.5°	608.4	617.6	641.5	668.0	675.8
40°	578.4	590.1	617.2	645.4	653.1
42.5°	550.8	561.8	591.2	619.9	630.4
45°	517.6	533.2	563.4	595.0	606.1
47.5°	487.2	502.7	537.6	571.2	581.3
50°	456.7	473.3	509.9	544.7	554.6
52.5°	425.2	443.0	482.1	517.0	528.7
55°	392.0	412.6	453.5	488.8	499.4
57.5°	360.5	381.5	425.2	461.1	471.6
60°	329.6	351.2	396.0	430.2	441.3
62.5°	295.3	320.8	367.2	400.9	409.2
65°	264.3	290.3	335.7	369.3	378.8
67.5°	231.7	259.9	305.2	336.1	345.1
70°	200.8	230.0	273.7	302.5	306.3
72.5°	167.6	197.5	241.6	259.9	259.9
75°	137.6	168.1	209.0	212.4	209.6
77.5°	105.0	138.8	165.3	158.6	152.1
80°	75.8	109.0	121.0	109.0	100.0
82.5°	50.8	79.0	72.9	58.0	51.5
85°	28.2	42.0	28.8	16.0	11.6
87.5°	10.5	9.4	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)