

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: P732678

Luminaire Tested: **14FCZ2-29-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732678
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-CP250-3500K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RIBBED LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

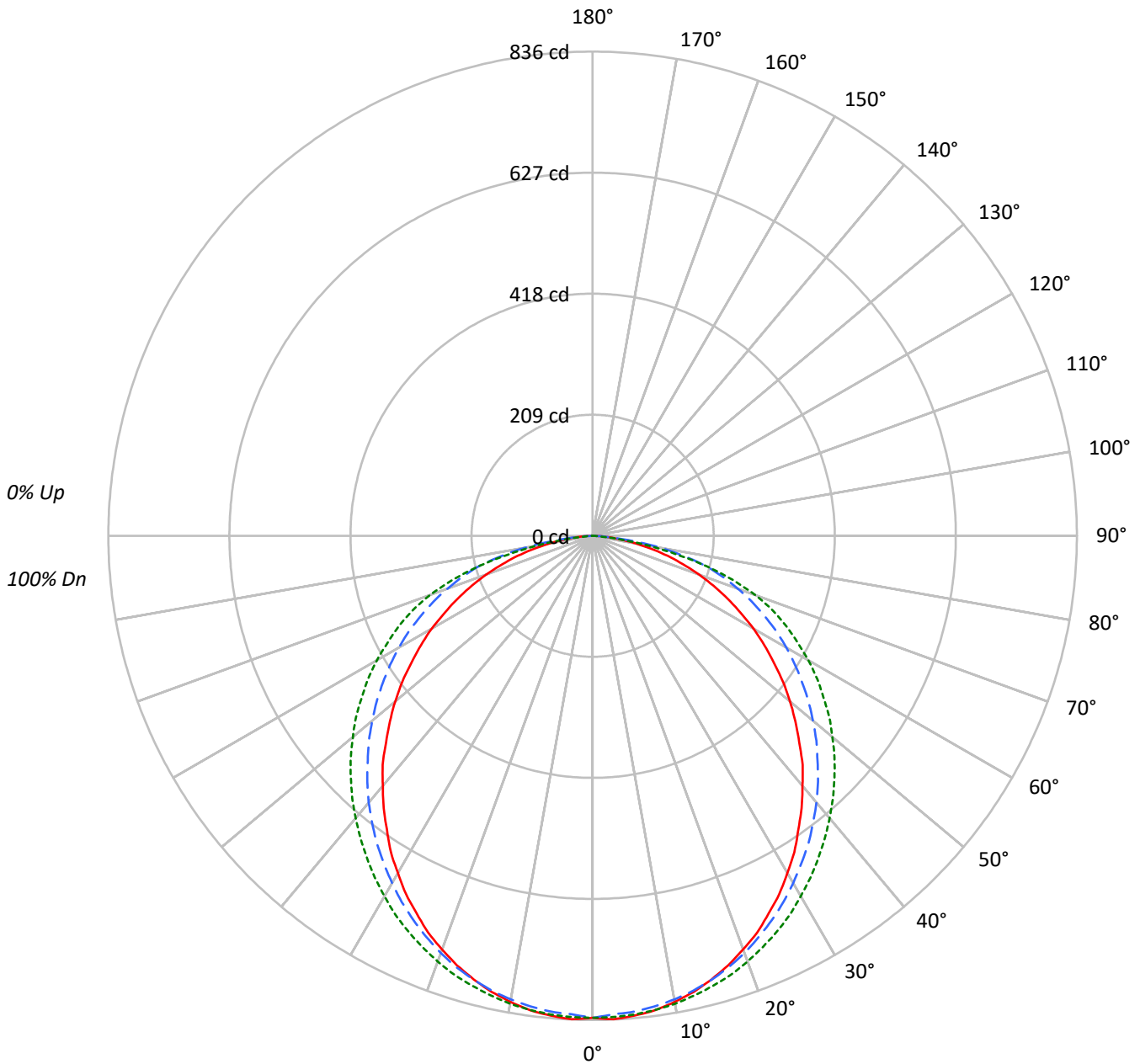
Lumens per Lamp: N/A
Luminaire Lumens: 2416.0 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P732678

CATALOG NUMBER: 14FCZ2-29-B2750-W2D-CP250-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P732678

CATALOG NUMBER: 14FCZ2-29-B2750-W2D-CP250-3500K

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°	2349	2349	2349
5°	2357	2337	2351
10°	2342	2330	2352
15°	2317	2319	2350
20°	2283	2303	2350
25°	2240	2280	2347
30°	2191	2256	2342
35°	2133	2237	2341
40°	2076	2216	2345
45°	2013	2191	2357
50°	1954	2181	2373
55°	1879	2174	2394
60°	1813	2178	2428
65°	1720	2184	2465
70°	1614	2201	2463
75°	1462	2220	2227
80°	1201	1916	1583
85°	887	907	366



TEST NUMBER: P732678

CATALOG NUMBER: 14FCZ2-29-B2750-W2D-CP250-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	3.3
10°-20°	225.0	9.3
20°-30°	338.9	14.0
30°-40°	406.7	16.8
40°-50°	423.9	17.5
50°-60°	392.4	16.2
60°-70°	317.1	13.1
70°-80°	193.3	8.0
80°-90°	39.9	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°	642.7	26.6
0°-40°	1049.4	43.4
0°-60°	1865.7	77.2
0°-90°	2416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2416.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	832	832	832	832	832	
5°	832	830	825	831	830	79
15°	793	794	794	804	804	224
25°	719	724	732	750	754	331
35°	619	629	649	673	679	388
45°	504	519	549	580	590	390
55°	382	402	442	476	486	342
65°	258	283	327	360	369	255
75°	134	164	204	207	204	141
85°	27	41	28	16	11	34
90°	0	0	0	0	0	



TEST NUMBER: P732678

CATALOG NUMBER: 14FCZ2-29-B2750-W2D-CP250-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	832.3	832.3	832.3	832.3	832.3
2.5°	835.6	832.9	827.0	832.9	831.7
5°	831.7	829.7	824.8	830.7	829.7
7.5°	826.4	824.2	819.9	827.0	825.8
10°	817.2	816.2	812.9	821.1	820.5
12.5°	806.5	805.9	804.3	813.5	812.9
15°	793.0	793.5	793.5	804.3	804.3
17.5°	777.9	778.9	781.2	793.0	794.7
20°	760.1	762.3	766.6	780.1	782.2
22.5°	741.9	743.5	749.9	766.0	768.3
25°	719.2	723.5	732.1	750.5	753.7
27.5°	697.7	701.4	713.2	732.1	737.6
30°	672.3	678.2	692.3	712.8	718.7
32.5°	648.1	654.5	670.7	694.4	699.7
35°	619.1	628.7	649.2	672.9	679.3
37.5°	592.7	601.7	625.0	650.8	658.4
40°	563.4	574.9	601.3	628.7	636.3
42.5°	536.6	547.3	575.9	603.9	614.2
45°	504.3	519.4	548.9	579.6	590.4
47.5°	474.6	489.7	523.7	556.5	566.3
50°	444.9	461.1	496.7	530.7	540.3
52.5°	414.2	431.6	469.7	503.7	515.1
55°	381.9	401.9	441.8	476.2	486.5
57.5°	351.2	371.7	414.2	449.2	459.5
60°	321.1	342.2	385.8	419.1	430.0
62.5°	287.7	312.5	357.7	390.5	398.7
65°	257.5	282.8	327.0	359.8	369.0
67.5°	225.7	253.2	297.4	327.5	336.2
70°	195.6	224.1	266.7	294.7	298.4
72.5°	163.3	192.4	235.4	253.2	253.2
75°	134.1	163.7	203.6	206.9	204.2
77.5°	102.3	135.3	161.1	154.5	148.2
80°	73.9	106.2	117.9	106.2	97.4
82.5°	49.5	77.0	71.0	56.5	50.1
85°	27.4	40.9	28.0	15.6	11.3
87.5°	10.2	9.2	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)