

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: P732681

Luminaire Tested: **14FCZ2-29-B2750-W2D-CP375-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732681
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-CP375-2700K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RIBBED LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

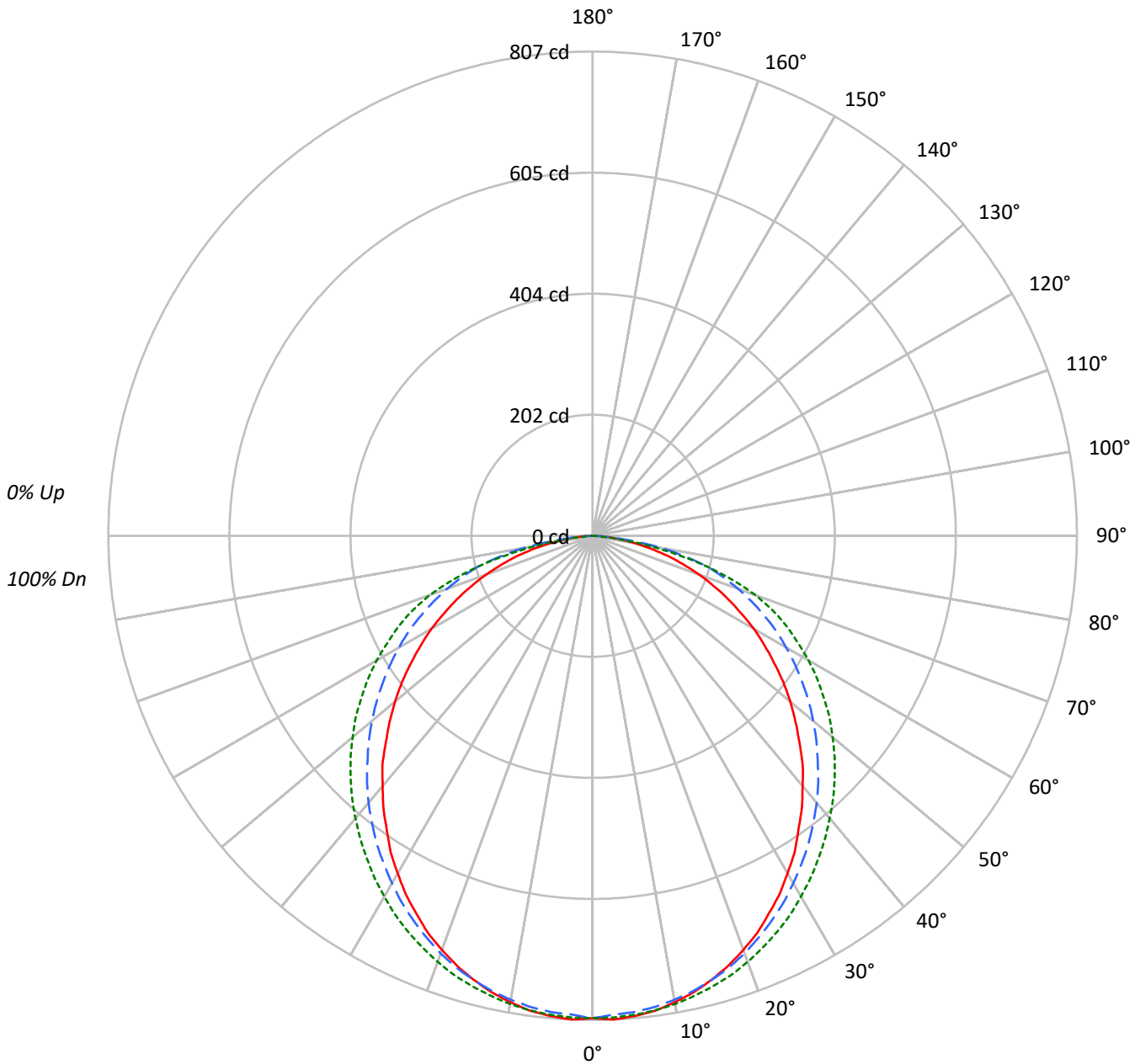
Lumens per Lamp: N/A
Luminaire Lumens: 2334.0 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	2270	2270	2270
5°	2277	2258	2271
10°	2263	2251	2272
15°	2239	2240	2271
20°	2206	2225	2270
25°	2164	2203	2268
30°	2117	2180	2263
35°	2061	2161	2261
40°	2006	2140	2265
45°	1944	2117	2277
50°	1887	2107	2292
55°	1815	2100	2313
60°	1751	2104	2345
65°	1661	2110	2381
70°	1560	2126	2379
75°	1412	2145	2152
80°	1161	1851	1530
85°	858	878	353



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	3.3
10°-20°	217.3	9.3
20°-30°	327.4	14.0
30°-40°	392.9	16.8
40°-50°	409.5	17.5
50°-60°	379.1	16.2
60°-70°	306.3	13.1
70°-80°	186.8	8.0
80°-90°	38.5	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°	620.8	26.6
0°-40°	1013.8	43.4
0°-60°	1802.4	77.2
0°-90°	2334.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2334.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	804	802	797	802	802	76
15°	766	766	766	777	777	216
25°	695	699	707	725	728	320
35°	598	607	627	650	656	375
45°	487	502	530	560	570	377
55°	369	388	427	460	470	331
65°	249	273	316	348	356	246
75°	130	158	197	200	197	136
85°	26	40	27	15	11	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	804.1	804.1	804.1	804.1	804.1
2.5°	807.2	804.7	798.9	804.7	803.5
5°	803.5	801.5	796.8	802.5	801.5
7.5°	798.4	796.2	792.0	798.9	797.8
10°	789.5	788.5	785.3	793.2	792.6
12.5°	779.2	778.6	777.0	785.9	785.3
15°	766.1	766.5	766.5	777.0	777.0
17.5°	751.5	752.5	754.7	766.1	767.7
20°	734.3	736.5	740.6	753.6	755.7
22.5°	716.7	718.3	724.4	740.0	742.2
25°	694.8	698.9	707.2	725.0	728.1
27.5°	674.0	677.6	689.0	707.2	712.5
30°	649.5	655.2	668.8	688.6	694.3
32.5°	626.1	632.3	647.9	670.8	676.0
35°	598.0	607.4	627.1	650.1	656.2
37.5°	572.5	581.3	603.8	628.7	636.0
40°	544.3	555.4	580.9	607.4	614.7
42.5°	518.4	528.7	556.4	583.4	593.3
45°	487.1	501.8	530.3	559.9	570.4
47.5°	458.5	473.1	505.9	537.6	547.0
50°	429.8	445.5	479.8	512.7	522.0
52.5°	400.2	416.9	453.8	486.6	497.6
55°	368.9	388.3	426.8	460.1	470.0
57.5°	339.3	359.1	400.2	434.0	443.9
60°	310.2	330.5	372.7	404.9	415.4
62.5°	278.0	301.9	345.6	377.3	385.1
65°	248.7	273.2	315.9	347.6	356.5
67.5°	218.1	244.6	287.3	316.4	324.8
70°	189.0	216.5	257.6	284.7	288.3
72.5°	157.8	185.8	227.4	244.6	244.6
75°	129.5	158.2	196.7	199.9	197.3
77.5°	98.9	130.7	155.6	149.3	143.1
80°	71.4	102.6	113.9	102.6	94.1
82.5°	47.9	74.4	68.6	54.6	48.4
85°	26.5	39.5	27.1	15.0	10.9
87.5°	9.9	8.9	2.6	2.6	2.6
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)