

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: P732682

Luminaire Tested: **14FCZ2-29-B2750-W2D-CP375-3000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732682
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-CP375-3000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RIBBED LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

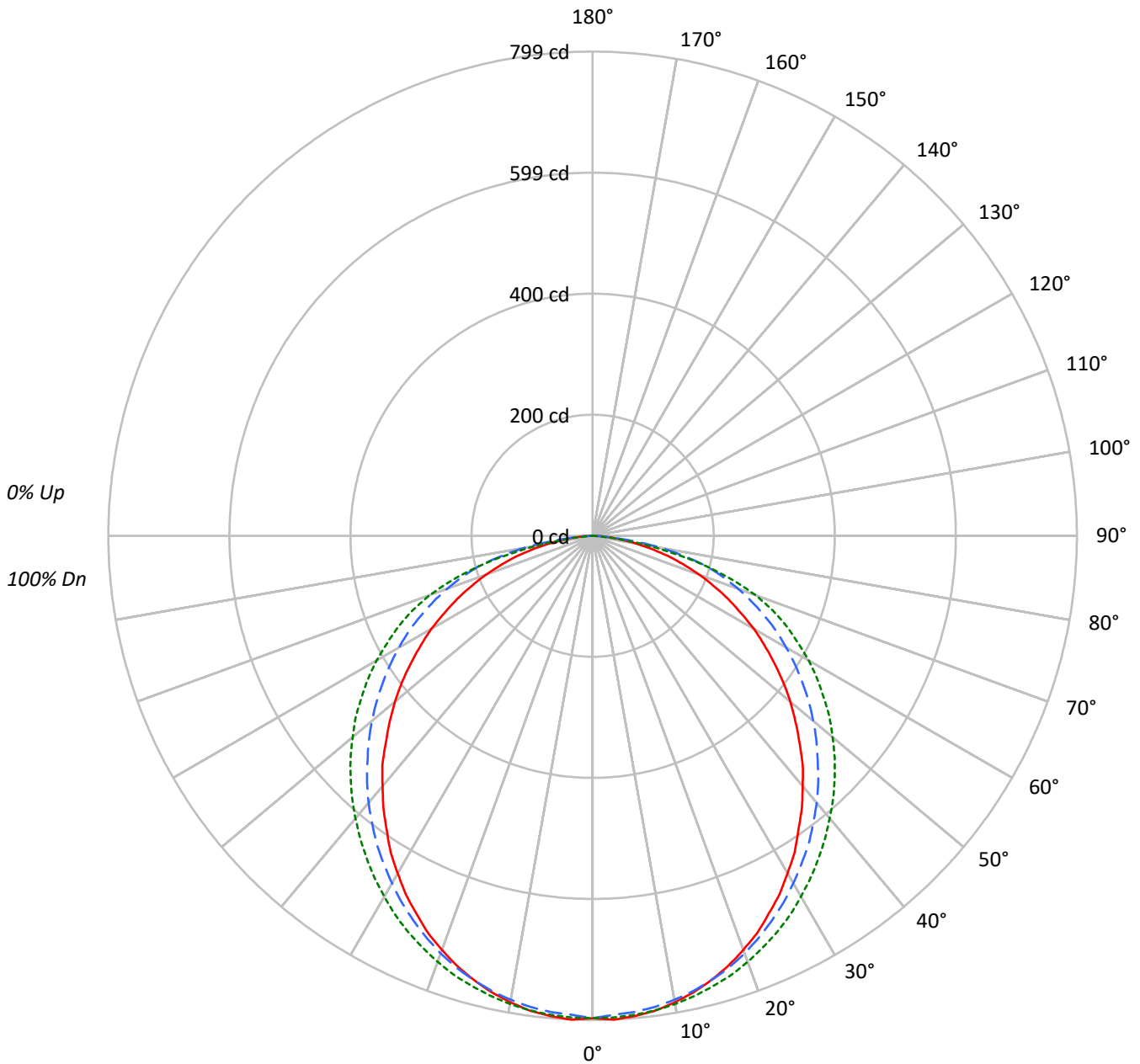
Lumens per Lamp: N/A
Luminaire Lumens: 2311.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	2247	2247	2247
5°	2254	2235	2249
10°	2241	2229	2249
15°	2217	2218	2248
20°	2184	2203	2247
25°	2142	2181	2246
30°	2096	2158	2241
35°	2041	2140	2239
40°	1986	2119	2243
45°	1925	2096	2255
50°	1869	2086	2269
55°	1798	2080	2290
60°	1734	2083	2322
65°	1645	2089	2358
70°	1544	2105	2355
75°	1398	2124	2131
80°	1148	1834	1515
85°	849	868	350



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.3	3.3
10°-20°	215.2	9.3
20°-30°	324.2	14.0
30°-40°	389.0	16.8
40°-50°	405.5	17.5
50°-60°	375.4	16.2
60°-70°	303.3	13.1
70°-80°	184.9	8.0
80°-90°	38.2	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°	614.7	26.6
0°-40°	1003.8	43.4
0°-60°	1784.6	77.2
0°-90°	2311.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2311.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	796	796	796	796	796	
5°	796	794	789	795	794	76
15°	759	759	759	769	769	214
25°	688	692	700	718	721	317
35°	592	601	621	644	650	371
45°	482	497	525	554	565	373
55°	365	384	423	456	465	327
65°	246	270	313	344	353	244
75°	128	157	195	198	195	135
85°	26	39	27	15	11	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	796.2	796.2	796.2	796.2	796.2
2.5°	799.3	796.7	791.1	796.7	795.6
5°	795.6	793.6	788.9	794.6	793.6
7.5°	790.5	788.4	784.2	791.1	789.9
10°	781.7	780.7	777.6	785.4	784.8
12.5°	771.5	770.9	769.3	778.1	777.6
15°	758.6	759.0	759.0	769.3	769.3
17.5°	744.1	745.1	747.2	758.6	760.1
20°	727.1	729.2	733.3	746.2	748.2
22.5°	709.6	711.2	717.3	732.7	734.9
25°	687.9	692.0	700.3	717.8	721.0
27.5°	667.3	670.9	682.2	700.3	705.5
30°	643.1	648.8	662.2	681.8	687.5
32.5°	620.0	626.1	641.5	664.2	669.3
35°	592.2	601.4	621.0	643.7	649.8
37.5°	566.9	575.6	597.8	622.5	629.7
40°	539.0	549.9	575.1	601.4	608.6
42.5°	513.3	523.5	550.9	577.7	587.5
45°	482.3	496.8	525.1	554.4	564.8
47.5°	454.0	468.4	500.9	532.3	541.6
50°	425.6	441.1	475.1	507.6	516.8
52.5°	396.2	412.8	449.3	481.8	492.7
55°	365.3	384.5	422.6	455.5	465.3
57.5°	335.9	355.5	396.2	429.7	439.5
60°	307.1	327.3	369.0	400.9	411.3
62.5°	275.2	298.9	342.2	373.5	381.3
65°	246.3	270.5	312.8	344.2	353.0
67.5°	215.9	242.2	284.4	313.2	321.6
70°	187.1	214.4	255.1	281.9	285.4
72.5°	156.2	184.0	225.1	242.2	242.2
75°	128.2	156.6	194.8	197.9	195.4
77.5°	97.9	129.4	154.1	147.8	141.7
80°	70.6	101.6	112.8	101.6	93.2
82.5°	47.4	73.6	68.0	54.1	48.0
85°	26.2	39.2	26.8	14.9	10.8
87.5°	9.8	8.8	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)