

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: P732677

Luminaire Tested: **14FCZ2-29-B2750-W2D-CP250-3000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732677
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-CP250-3000K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RIBBED LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

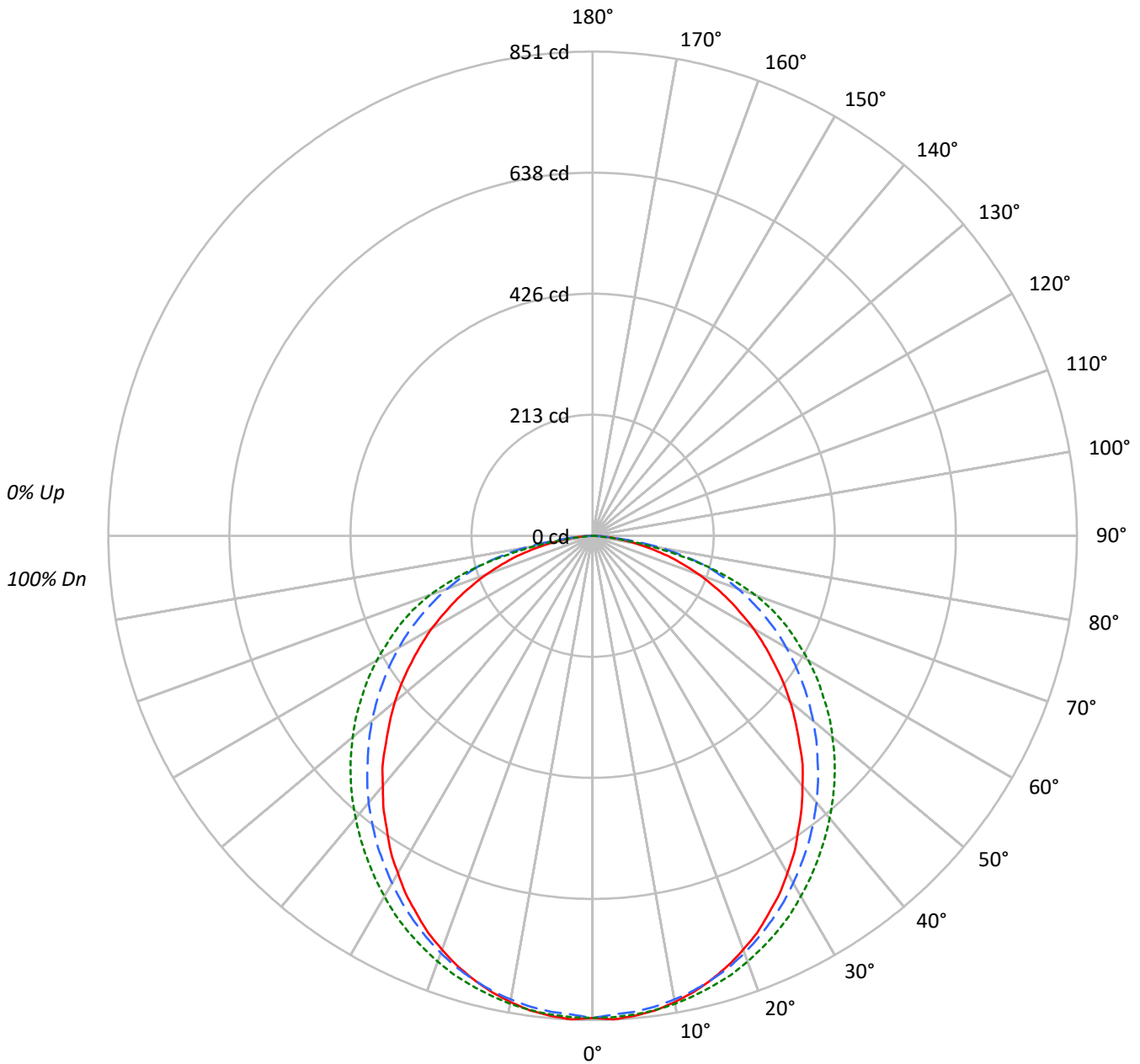
Lumens per Lamp: N/A
Luminaire Lumens: 2460.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

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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°	2392	2392	2392
5°	2400	2380	2394
10°	2385	2372	2394
15°	2360	2361	2393
20°	2325	2345	2392
25°	2281	2322	2390
30°	2231	2298	2385
35°	2172	2278	2383
40°	2114	2256	2387
45°	2049	2231	2400
50°	1989	2221	2416
55°	1914	2214	2437
60°	1845	2217	2472
65°	1751	2224	2509
70°	1644	2241	2507
75°	1489	2261	2267
80°	1222	1952	1613
85°	904	923	372



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	3.3
10°-20°	229.1	9.3
20°-30°	345.1	14.0
30°-40°	414.1	16.8
40°-50°	431.6	17.5
50°-60°	399.6	16.2
60°-70°	322.8	13.1
70°-80°	196.8	8.0
80°-90°	40.6	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°	654.4	26.6
0°-40°	1068.5	43.4
0°-60°	1899.7	77.2
0°-90°	2460.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2460.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	848	848	848	848	848	
5°	847	845	840	846	845	80
15°	808	808	808	819	819	228
25°	732	737	745	764	768	338
35°	630	640	661	685	692	395
45°	513	529	559	590	601	397
55°	389	409	450	485	495	348
65°	262	288	333	366	376	259
75°	136	167	207	211	208	143
85°	28	42	28	16	12	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	847.5	847.5	847.5	847.5	847.5
2.5°	850.8	848.1	842.1	848.1	846.9
5°	846.9	844.8	839.8	845.8	844.8
7.5°	841.5	839.2	834.8	842.1	840.8
10°	832.1	831.0	827.7	836.0	835.4
12.5°	821.2	820.6	818.9	828.3	827.7
15°	807.5	807.9	807.9	818.9	818.9
17.5°	792.1	793.1	795.4	807.5	809.1
20°	773.9	776.2	780.6	794.3	796.4
22.5°	755.4	757.0	763.5	780.0	782.3
25°	732.3	736.6	745.4	764.1	767.5
27.5°	710.4	714.1	726.2	745.4	751.0
30°	684.5	690.6	704.9	725.8	731.8
32.5°	659.9	666.4	682.9	707.0	712.5
35°	630.3	640.1	661.0	685.2	691.6
37.5°	603.5	612.7	636.4	662.6	670.4
40°	573.7	585.3	612.2	640.1	647.9
42.5°	546.4	557.2	586.4	614.9	625.3
45°	513.4	528.9	558.9	590.2	601.2
47.5°	483.2	498.6	533.2	566.6	576.6
50°	453.0	469.5	505.7	540.3	550.1
52.5°	421.8	439.5	478.3	512.8	524.5
55°	388.9	409.2	449.9	484.9	495.3
57.5°	357.6	378.4	421.8	457.4	467.8
60°	326.9	348.4	392.8	426.8	437.8
62.5°	293.0	318.2	364.2	397.6	405.9
65°	262.2	288.0	333.0	366.4	375.7
67.5°	229.8	257.8	302.8	333.4	342.3
70°	199.2	228.2	271.5	300.1	303.8
72.5°	166.3	195.9	239.7	257.8	257.8
75°	136.5	166.7	207.3	210.7	207.9
77.5°	104.2	137.7	164.0	157.4	150.9
80°	75.2	108.1	120.1	108.1	99.2
82.5°	50.4	78.4	72.3	57.5	51.0
85°	27.9	41.7	28.5	15.9	11.5
87.5°	10.4	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)