

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: P732691

Luminaire Tested: **14FCZ2-29-HRP-B2750-W2D-CA125-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294787)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-29-HRP-B2750-W2D-CA125-2700K
Description: 1X4 2900 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND HRP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

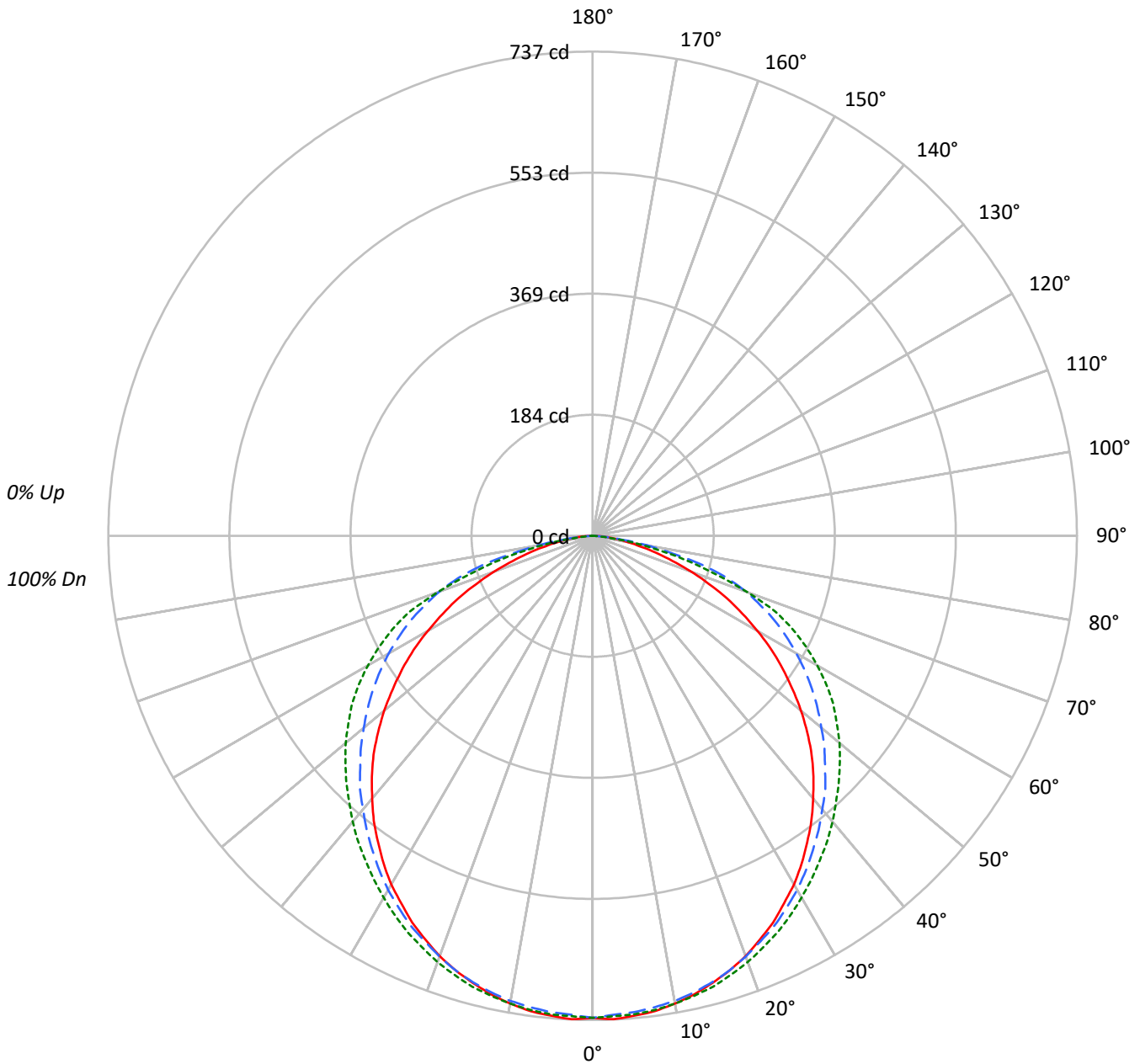
Lumens per Lamp: N/A
Luminaire Lumens: 2161.0 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
Input Voltage (V): NR
Input Current (Ain): 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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84																			
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37																			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33																			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	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	38	31	26	37	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2071	2071	2071
5°	2078	2062	2072
10°	2072	2061	2072
15°	2059	2056	2075
20°	2045	2047	2074
25°	2023	2040	2074
30°	1998	2029	2073
35°	1962	2014	2077
40°	1923	2003	2093
45°	1882	1996	2116
50°	1817	1996	2154
55°	1739	2006	2200
60°	1634	2021	2229
65°	1507	2042	2242
70°	1313	2047	2063
75°	1082	1905	1668
80°	850	1370	1115
85°	664	528	262



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	3.2
10°-20°	199.4	9.2
20°-30°	302.7	14.0
30°-40°	366.8	17.0
40°-50°	386.6	17.9
50°-60°	360.9	16.7
60°-70°	288.4	13.3
70°-80°	158.7	7.3
80°-90°	28.0	1.3
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°	571.6	26.5
0°-40°	938.4	43.4
0°-60°	1685.9	78.0
0°-90°	2161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2161.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	734	734	734	734	734	
5°	733	731	728	733	731	70
15°	705	705	703	710	710	199
25°	650	651	655	664	666	299
35°	569	575	584	599	603	356
45°	472	480	500	523	530	363
55°	353	371	408	436	447	315
65°	226	254	306	331	336	222
75°	99	142	175	157	153	107
85°	20	26	16	10	8	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	733.8	733.8	733.8	733.8	733.8
2.5°	736.6	734.5	729.8	733.8	731.9
5°	733.3	731.2	727.8	732.6	731.2
7.5°	729.8	727.1	723.7	729.2	727.8
10°	723.0	720.9	719.0	723.7	723.0
12.5°	714.9	714.2	712.1	717.6	716.9
15°	704.7	704.7	703.4	710.1	710.1
17.5°	693.7	693.0	693.7	701.3	700.6
20°	680.8	680.8	681.5	690.5	690.5
22.5°	665.2	665.9	667.9	678.8	678.1
25°	649.7	650.9	655.0	664.5	665.9
27.5°	630.6	634.1	638.7	650.2	651.6
30°	612.9	615.0	622.4	633.4	635.9
32.5°	591.9	595.9	604.1	616.3	619.8
35°	569.4	574.9	584.4	599.3	602.8
37.5°	547.0	551.9	564.8	580.2	586.4
40°	521.9	530.0	543.6	561.3	568.0
42.5°	497.3	505.6	524.0	542.2	548.4
45°	471.5	480.5	500.1	522.6	530.0
47.5°	443.0	453.3	478.4	502.2	510.2
50°	413.8	426.7	454.5	481.2	490.6
52.5°	383.3	399.5	431.5	459.3	468.3
55°	353.4	370.9	407.7	436.3	447.1
57.5°	322.8	341.9	383.3	415.8	422.0
60°	289.4	312.6	358.0	386.6	394.8
62.5°	256.9	283.4	332.2	359.4	366.3
65°	225.6	254.2	305.8	330.9	335.7
67.5°	191.6	225.6	276.5	299.7	300.9
70°	159.1	198.5	248.0	258.8	250.0
72.5°	127.1	169.2	214.8	205.8	198.5
75°	99.2	142.0	174.7	157.0	152.9
77.5°	73.4	116.3	125.0	115.6	108.0
80°	52.3	91.7	84.3	72.1	68.6
82.5°	35.9	57.8	46.3	35.9	31.3
85°	20.5	25.8	16.3	10.1	8.1
87.5°	8.8	6.2	3.4	2.8	2.8
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)