

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: P732618

Luminaire Tested: **14FCZ2-25-S-B2750-W2D-CA125-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275670)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-S-B2750-W2D-CA125-3500K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SMOOTH LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

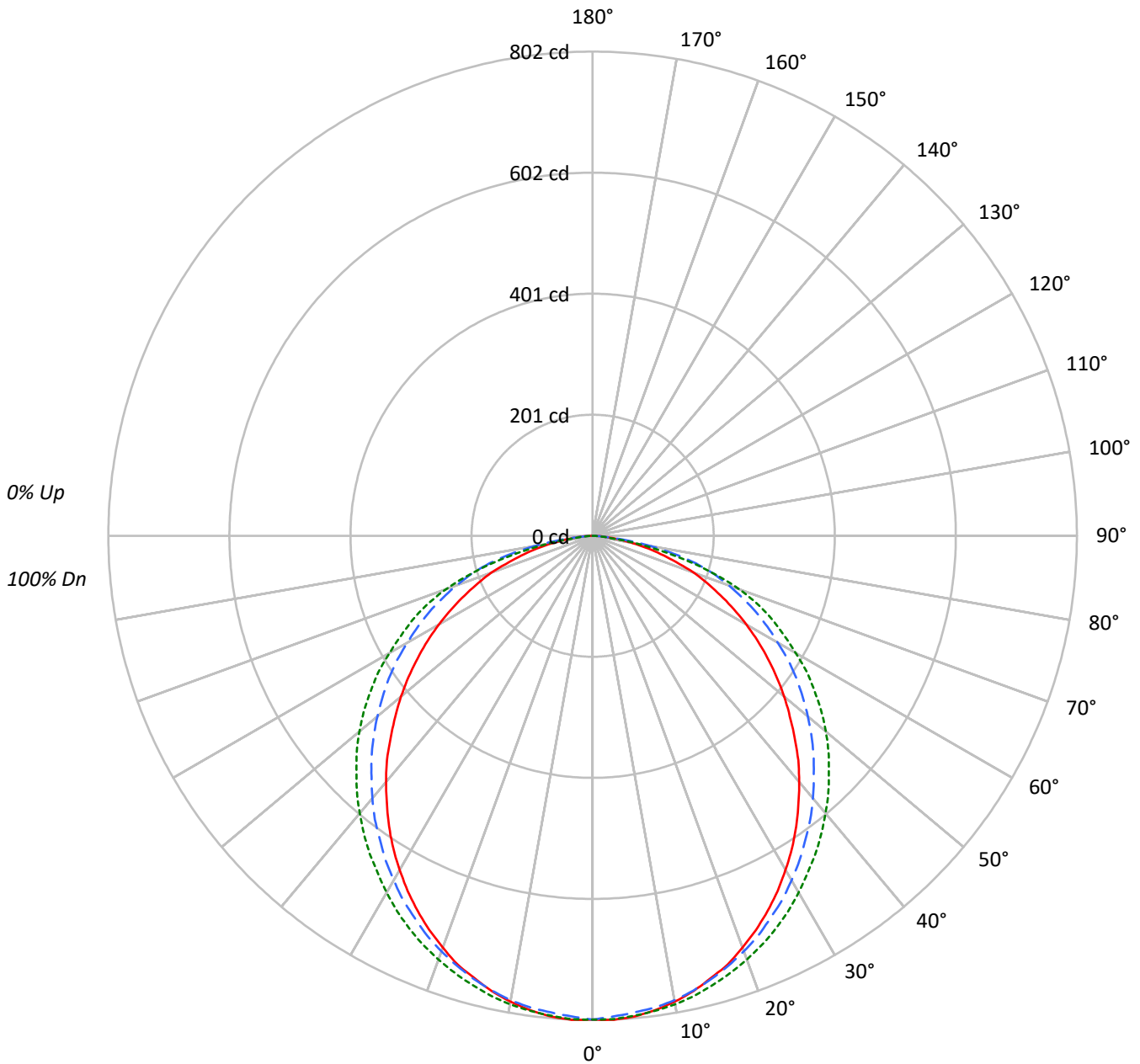
Lumens per Lamp: N/A
Luminaire Lumens: 2245.0 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
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: P732618

CATALOG NUMBER: 14FCZ2-25-S-B2750-W2D-CA125-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P732618

CATALOG NUMBER: 14FCZ2-25-S-B2750-W2D-CA125-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	94	91	89	90	88	86	84								
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70								
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58								
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50								
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43								
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38								
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33								
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30								
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27								
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2262	2262	2262
5°	2265	2246	2261
10°	2246	2240	2259
15°	2215	2221	2251
20°	2180	2200	2244
25°	2135	2174	2236
30°	2082	2148	2224
35°	2025	2117	2217
40°	1961	2092	2211
45°	1888	2066	2208
50°	1818	2043	2214
55°	1742	2027	2208
60°	1659	1998	2193
65°	1562	1992	2193
70°	1470	1976	2131
75°	1275	1930	1820
80°	1031	1556	1213
85°	683	538	363



TEST NUMBER: P732618

CATALOG NUMBER: 14FCZ2-25-S-B2750-W2D-CA125-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	3.4
10°-20°	215.4	9.6
20°-30°	323.0	14.4
30°-40°	385.3	17.2
40°-50°	398.4	17.7
50°-60°	363.7	16.2
60°-70°	286.2	12.7
70°-80°	166.6	7.4
80°-90°	30.7	1.4
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°	614.1	27.4
0°-40°	999.4	44.5
0°-60°	1761.5	78.5
0°-90°	2245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2245.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	801	801	801	801	801	
5°	799	797	793	799	798	76
15°	758	759	760	770	770	214
25°	686	689	698	715	718	316
35°	588	596	614	638	643	367
45°	473	489	518	546	553	365
55°	354	373	412	442	449	317
65°	234	258	298	322	328	232
75°	117	145	177	174	167	124
85°	21	30	17	13	11	27
90°	0	0	0	0	0	



TEST NUMBER: P732618

CATALOG NUMBER: 14FCZ2-25-S-B2750-W2D-CA125-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	801.4	801.4	801.4	801.4	801.4
2.5°	802.5	800.3	796.9	802.5	801.4
5°	799.3	796.9	792.6	799.3	798.0
7.5°	792.6	790.3	788.1	794.8	793.7
10°	783.6	782.5	781.4	789.2	788.1
12.5°	772.5	772.5	771.4	780.3	780.3
15°	758.1	759.2	760.2	770.2	770.2
17.5°	744.7	743.6	746.9	758.1	759.2
20°	725.7	727.9	732.4	745.8	746.9
22.5°	706.8	709.1	716.9	730.2	733.5
25°	685.6	689.0	697.9	714.6	718.0
27.5°	663.4	667.9	680.0	697.9	701.2
30°	638.9	645.5	658.9	679.0	682.4
32.5°	614.4	621.1	637.8	657.8	662.3
35°	587.7	595.5	614.4	637.8	643.4
37.5°	559.9	569.8	592.2	615.5	622.2
40°	532.1	543.2	567.7	592.2	600.0
42.5°	504.2	515.4	542.0	569.8	577.8
45°	473.0	488.7	517.6	546.5	553.2
47.5°	443.0	459.8	492.0	520.9	529.9
50°	414.1	430.7	465.2	495.4	504.2
52.5°	384.1	401.8	438.5	469.7	477.5
55°	353.9	372.9	411.9	441.9	448.6
57.5°	323.9	344.0	384.1	413.0	420.8
60°	293.9	315.1	353.9	382.9	388.4
62.5°	263.8	286.0	326.1	351.8	357.3
65°	233.8	258.2	298.3	321.7	328.4
67.5°	204.9	229.3	268.3	290.5	296.1
70°	178.1	200.4	239.4	256.0	258.2
72.5°	144.7	172.5	210.3	219.3	213.7
75°	116.9	144.7	177.0	173.6	166.9
77.5°	89.1	116.9	138.0	126.8	118.0
80°	63.4	91.2	95.7	79.0	74.6
82.5°	41.2	63.4	53.5	41.2	33.4
85°	21.1	30.0	16.6	13.4	11.2
87.5°	6.7	4.5	2.2	2.2	1.1
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)