

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: P732639

Luminaire Tested: **14FCZ2-25-SQR-B2750-W2D-CA08-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387389)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-SQR-B2750-W2D-CA08-4000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND SQR LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

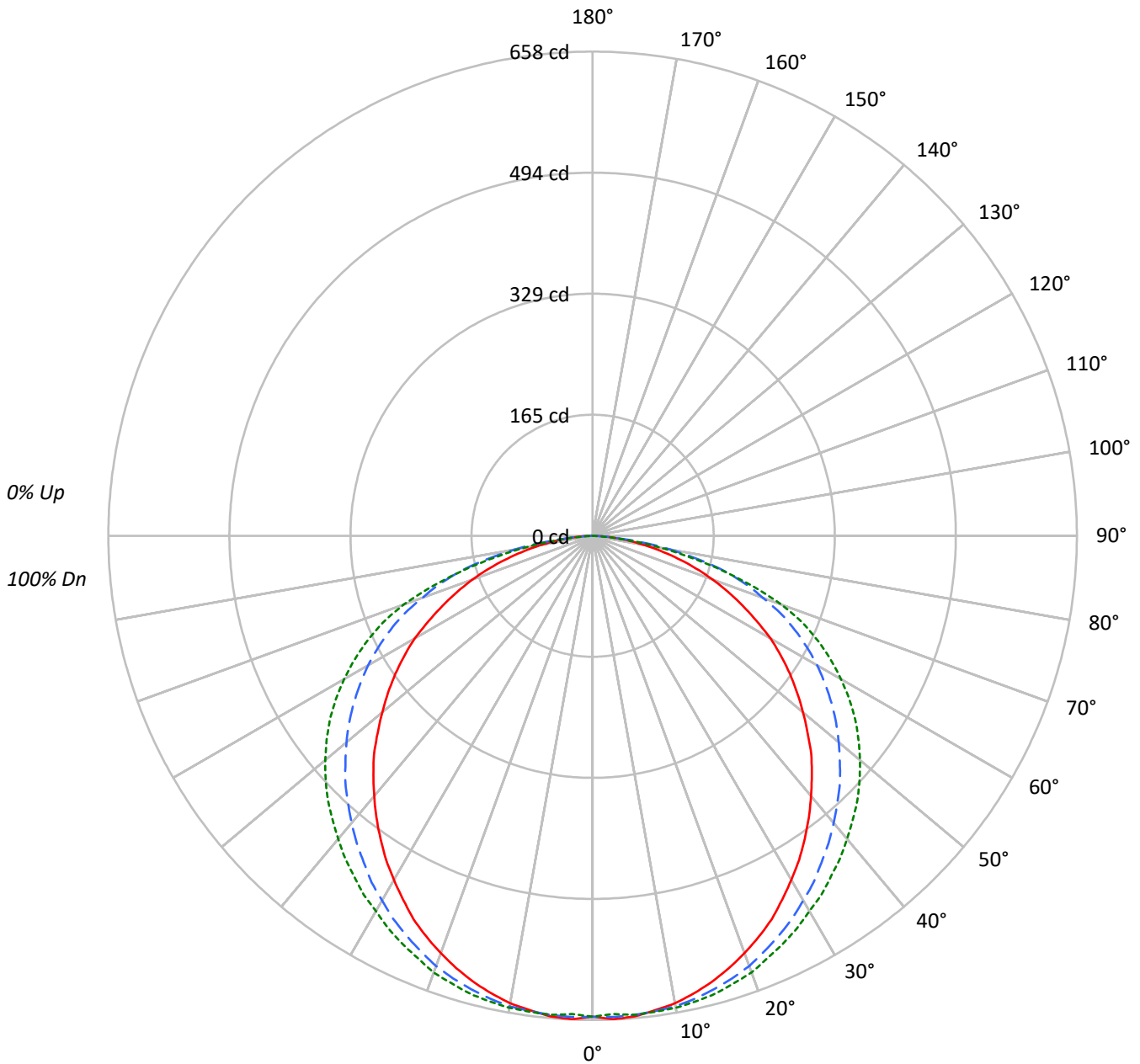
Lumens per Lamp: N/A
Luminaire Lumens: 2068.0 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83								
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68								
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56								
4	81	68	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48								
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41								
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35								
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31								
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28								
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25								
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1845	1845	1845
5°	1858	1852	1852
10°	1849	1861	1867
15°	1833	1864	1883
20°	1813	1869	1897
25°	1792	1867	1905
30°	1760	1865	1919
35°	1731	1868	1947
40°	1701	1878	1982
45°	1677	1897	2030
50°	1638	1918	2082
55°	1610	1949	2144
60°	1577	1989	2201
65°	1503	2026	2256
70°	1428	2029	2254
75°	1308	2024	1989
80°	1117	1728	1543
85°	878	978	576



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.1	3.0
10°-20°	179.4	8.7
20°-30°	274.4	13.3
30°-40°	336.3	16.3
40°-50°	361.7	17.5
50°-60°	347.6	16.8
60°-70°	289.4	14.0
70°-80°	177.6	8.6
80°-90°	39.6	1.9
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°	515.9	24.9
0°-40°	852.2	41.2
0°-60°	1561.4	75.5
0°-90°	2068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2068.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	654	654	654	654	654	
5°	656	649	654	654	654	62
15°	627	625	638	642	644	177
25°	575	580	599	607	612	265
35°	502	515	542	556	565	314
45°	420	439	475	497	509	323
55°	327	355	396	423	436	292
65°	225	260	303	328	338	223
75°	120	156	186	184	182	127
85°	27	41	30	21	18	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	653.6	653.6	653.6	653.6	653.6
2.5°	657.6	651.4	654.6	653.6	650.4
5°	655.6	649.4	653.6	653.6	653.6
7.5°	650.4	645.2	651.4	652.4	652.4
10°	645.2	641.0	649.4	650.4	651.4
12.5°	636.8	633.7	644.2	646.2	648.2
15°	627.4	625.4	637.8	642.0	644.2
17.5°	616.0	617.0	630.6	635.8	637.8
20°	603.5	606.6	622.2	627.4	631.6
22.5°	589.9	594.1	610.8	617.0	621.2
25°	575.3	580.5	599.3	606.6	611.8
27.5°	557.6	565.9	586.8	596.2	601.4
30°	539.9	549.3	572.3	583.7	588.9
32.5°	522.2	532.6	558.7	570.1	578.5
35°	502.4	514.9	542.0	556.5	564.9
37.5°	482.6	497.2	526.4	543.0	552.4
40°	461.7	477.4	509.6	528.4	537.8
42.5°	440.9	458.6	492.0	512.8	523.2
45°	420.1	438.8	475.2	497.2	508.6
47.5°	396.1	419.1	455.5	480.4	492.0
50°	373.1	398.1	436.7	462.8	474.2
52.5°	350.2	376.3	416.9	444.0	455.5
55°	327.2	355.4	396.1	423.1	435.7
57.5°	303.3	332.4	374.2	402.3	413.7
60°	279.3	309.6	352.3	378.3	389.8
62.5°	251.1	286.6	328.4	354.4	364.8
65°	225.1	259.5	303.3	328.4	337.8
67.5°	199.1	234.5	277.3	300.2	308.5
70°	173.0	208.5	245.9	267.9	273.1
72.5°	147.0	182.4	217.9	230.3	228.3
75°	119.9	156.4	185.6	184.5	182.4
77.5°	93.9	129.2	147.0	139.6	136.6
80°	68.7	103.2	106.3	99.1	94.9
82.5°	46.9	73.9	66.7	58.3	54.2
85°	27.1	40.6	30.2	20.8	17.8
87.5°	11.4	10.4	3.2	3.2	2.0
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)