

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: P732636

Luminaire Tested: **14FCZ2-25-SQR-B2750-W2D-CA08-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732636
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-CA08-2700K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND SQR LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

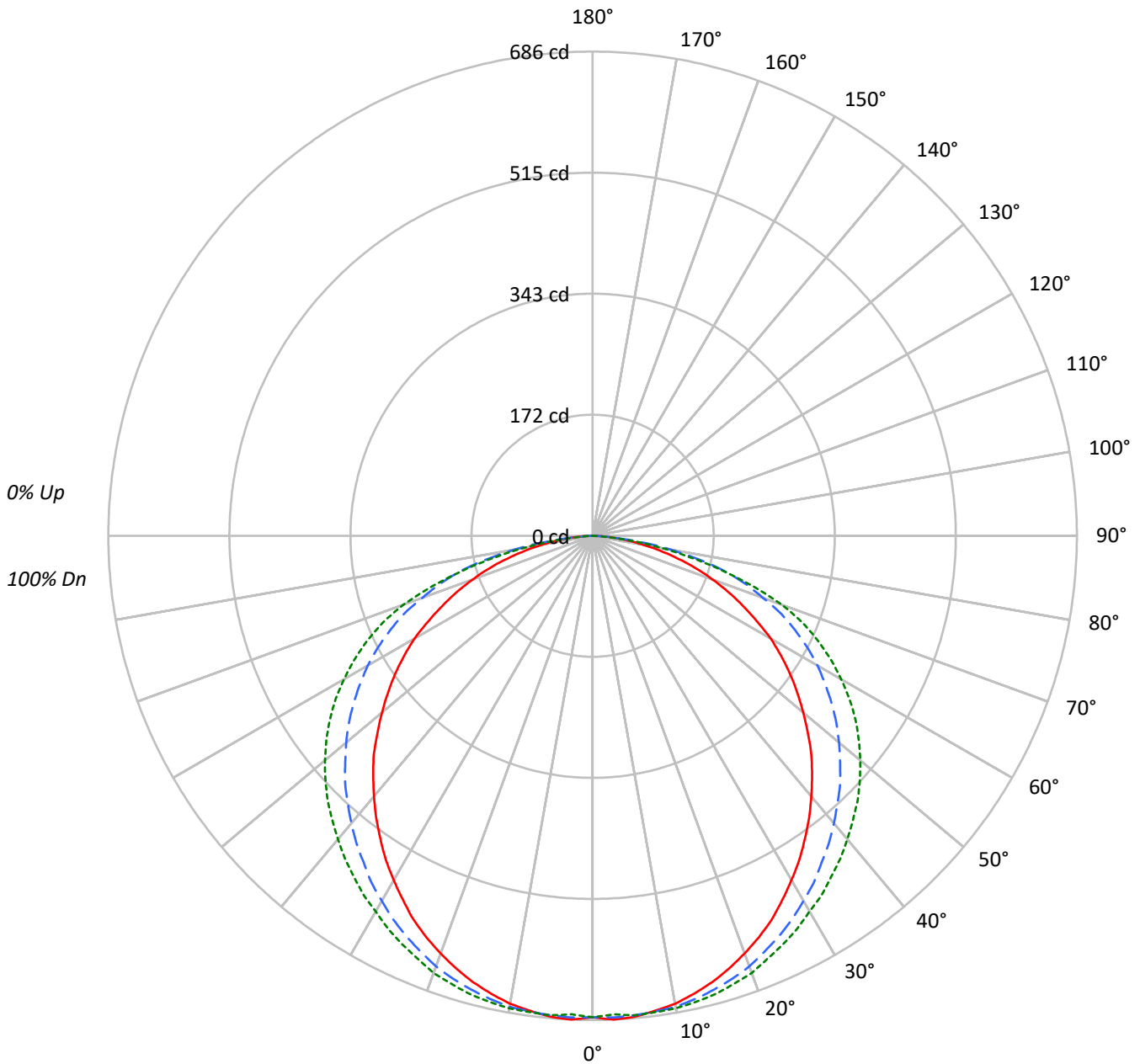
Lumens per Lamp: N/A
Luminaire Lumens: 2158.0 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P732636

CATALOG NUMBER: 14FCZ2-25-SQR-B2750-W2D-CA08-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P732636

CATALOG NUMBER: 14FCZ2-25-SQR-B2750-W2D-CA08-2700K

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	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°	1925	1925	1925
5°	1938	1932	1932
10°	1930	1942	1948
15°	1913	1945	1964
20°	1892	1950	1980
25°	1870	1948	1989
30°	1836	1946	2003
35°	1806	1949	2031
40°	1775	1960	2068
45°	1750	1980	2118
50°	1710	2001	2173
55°	1681	2034	2237
60°	1645	2076	2296
65°	1569	2114	2354
70°	1490	2118	2352
75°	1364	2111	2075
80°	1165	1803	1609
85°	917	1020	599



TEST NUMBER: P732636

CATALOG NUMBER: 14FCZ2-25-SQR-B2750-W2D-CA08-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.8	3.0
10°-20°	187.2	8.7
20°-30°	286.3	13.3
30°-40°	350.9	16.3
40°-50°	377.4	17.5
50°-60°	362.7	16.8
60°-70°	302.0	14.0
70°-80°	185.4	8.6
80°-90°	41.3	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°	538.3	24.9
0°-40°	889.3	41.2
0°-60°	1629.3	75.5
0°-90°	2158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2158.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	682	682	682	682	682	
5°	684	678	682	682	682	65
15°	655	653	666	670	672	185
25°	600	606	625	633	638	276
35°	524	537	566	581	590	328
45°	438	458	496	519	531	337
55°	342	371	413	442	455	305
65°	235	271	316	343	352	233
75°	125	163	194	193	190	132
85°	28	42	32	22	18	34
90°	0	0	0	0	0	



TEST NUMBER: P732636

CATALOG NUMBER: 14FCZ2-25-SQR-B2750-W2D-CA08-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	682.0	682.0	682.0	682.0	682.0
2.5°	686.2	679.8	683.1	682.0	678.7
5°	684.1	677.6	682.0	682.0	682.0
7.5°	678.7	673.3	679.8	680.8	680.8
10°	673.3	668.9	677.6	678.7	679.8
12.5°	664.5	661.2	672.2	674.3	676.4
15°	654.7	652.6	665.6	670.0	672.2
17.5°	642.8	643.9	658.1	663.5	665.6
20°	629.7	633.0	649.3	654.7	659.1
22.5°	615.6	619.9	637.4	643.9	648.3
25°	600.3	605.8	625.4	633.0	638.5
27.5°	581.8	590.6	612.4	622.2	627.6
30°	563.4	573.2	597.2	609.1	614.5
32.5°	544.9	555.7	583.0	594.9	603.7
35°	524.2	537.3	565.5	580.8	589.5
37.5°	503.6	518.8	549.3	566.6	576.4
40°	481.8	498.2	531.8	551.4	561.2
42.5°	460.1	478.6	513.4	535.1	545.9
45°	438.3	457.9	495.9	518.8	530.7
47.5°	413.3	437.3	475.3	501.3	513.4
50°	389.4	415.5	455.7	482.9	494.9
52.5°	365.4	392.7	435.0	463.4	475.3
55°	341.5	370.8	413.3	441.5	454.6
57.5°	316.5	346.9	390.4	419.8	431.7
60°	291.4	323.1	367.7	394.8	406.7
62.5°	262.1	299.1	342.7	369.8	380.6
65°	234.9	270.8	316.5	342.7	352.5
67.5°	207.8	244.7	289.3	313.3	321.9
70°	180.5	217.6	256.6	279.5	285.0
72.5°	153.4	190.3	227.4	240.3	238.2
75°	125.1	163.2	193.6	192.6	190.3
77.5°	97.9	134.9	153.4	145.7	142.5
80°	71.7	107.7	110.9	103.4	99.0
82.5°	49.0	77.2	69.6	60.9	56.5
85°	28.3	42.4	31.5	21.7	18.5
87.5°	11.9	10.9	3.3	3.3	2.1
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)