

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: P732652

Luminaire Tested: **14FCZ2-25-SQR-B2750-W2D-CP250-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732652
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-CP250-3000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND SQR LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

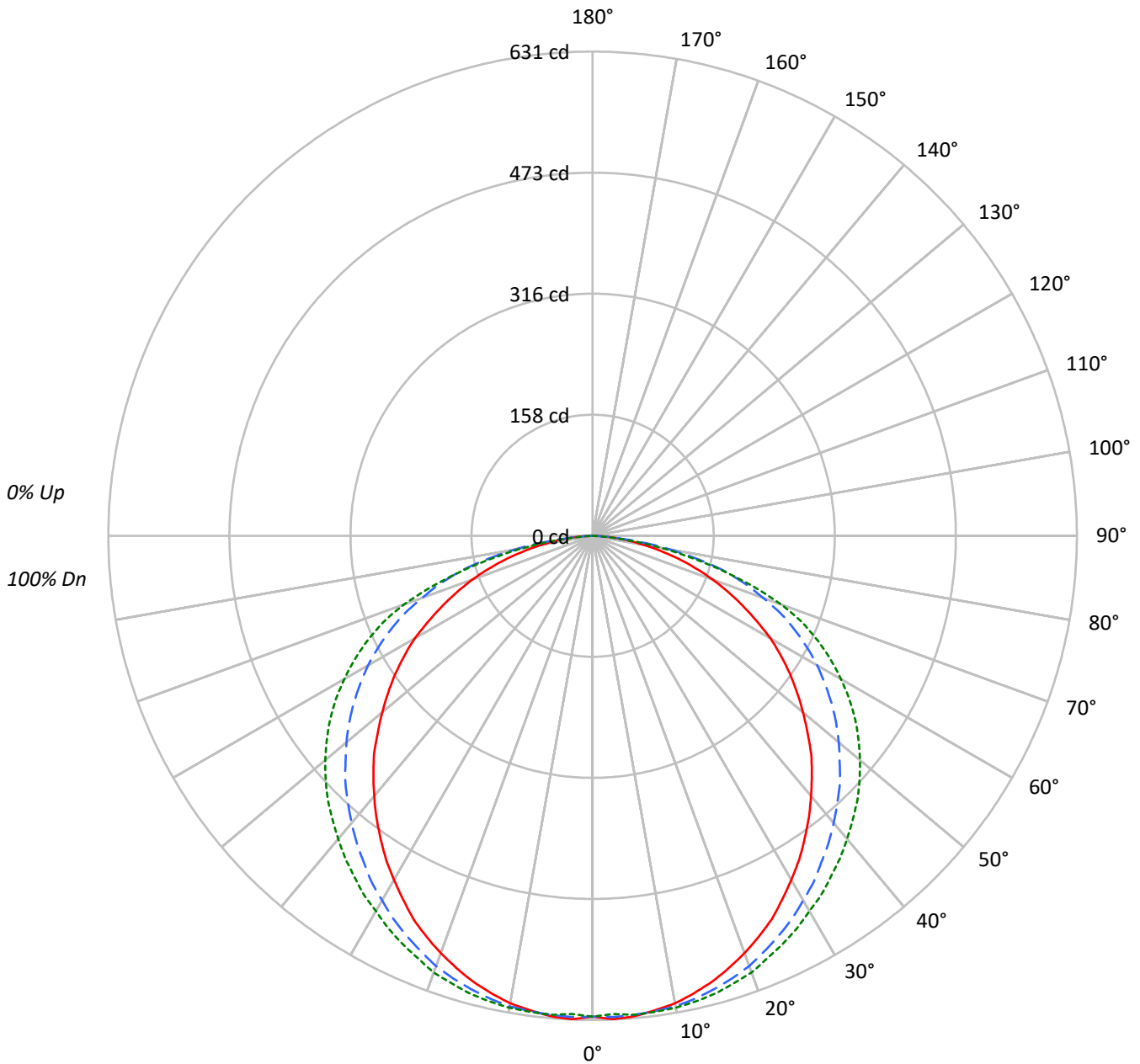
Lumens per Lamp: N/A
Luminaire Lumens: 1983.0 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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: P732652

CATALOG NUMBER: 14FCZ2-25-SQR-B2750-W2D-CP250-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P732652

CATALOG NUMBER: 14FCZ2-25-SQR-B2750-W2D-CP250-3000K

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°	1769	1769	1769
5°	1781	1776	1776
10°	1773	1785	1790
15°	1758	1787	1805
20°	1738	1792	1819
25°	1718	1790	1827
30°	1687	1788	1841
35°	1660	1791	1867
40°	1631	1801	1900
45°	1608	1819	1947
50°	1571	1839	1997
55°	1544	1869	2056
60°	1512	1908	2110
65°	1442	1942	2163
70°	1369	1946	2161
75°	1253	1940	1907
80°	1071	1656	1479
85°	842	936	551



TEST NUMBER: P732652

CATALOG NUMBER: 14FCZ2-25-SQR-B2750-W2D-CP250-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	3.0
10°-20°	172.0	8.7
20°-30°	263.1	13.3
30°-40°	322.5	16.3
40°-50°	346.8	17.5
50°-60°	333.3	16.8
60°-70°	277.5	14.0
70°-80°	170.3	8.6
80°-90°	37.9	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°	494.7	24.9
0°-40°	817.1	41.2
0°-60°	1497.2	75.5
0°-90°	1983.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1983.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	627	627	627	627	627	
5°	629	623	627	627	627	60
15°	602	600	612	616	618	170
25°	552	557	575	582	587	254
35°	482	494	520	534	542	301
45°	403	421	456	477	488	310
55°	314	341	380	406	418	280
65°	216	249	291	315	324	214
75°	115	150	178	177	175	122
85°	26	39	29	20	17	31
90°	0	0	0	0	0	



TEST NUMBER: P732652

CATALOG NUMBER: 14FCZ2-25-SQR-B2750-W2D-CP250-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	626.7	626.7	626.7	626.7	626.7
2.5°	630.6	624.6	627.7	626.7	623.7
5°	628.6	622.7	626.7	626.7	626.7
7.5°	623.7	618.7	624.6	625.6	625.6
10°	618.7	614.7	622.7	623.7	624.6
12.5°	610.6	607.6	617.7	619.6	621.6
15°	601.6	599.7	611.6	615.6	617.7
17.5°	590.7	591.7	604.7	609.7	611.6
20°	578.7	581.7	596.7	601.6	605.7
22.5°	565.6	569.7	585.7	591.7	595.7
25°	551.7	556.6	574.6	581.7	586.7
27.5°	534.6	542.7	562.7	571.7	576.7
30°	517.7	526.7	548.7	559.7	564.7
32.5°	500.7	510.7	535.7	546.7	554.7
35°	481.7	493.8	519.7	533.7	541.7
37.5°	462.8	476.7	504.7	520.6	529.6
40°	442.7	457.8	488.7	506.7	515.7
42.5°	422.7	439.8	471.8	491.7	501.7
45°	402.8	420.8	455.7	476.7	487.7
47.5°	379.8	401.8	436.7	460.7	471.8
50°	357.8	381.8	418.7	443.8	454.7
52.5°	335.8	360.8	399.8	425.8	436.7
55°	313.8	340.8	379.8	405.7	417.8
57.5°	290.8	318.8	358.8	385.8	396.7
60°	267.8	296.9	337.9	362.8	373.7
62.5°	240.8	274.9	314.9	339.8	349.8
65°	215.9	248.8	290.8	314.9	323.9
67.5°	190.9	224.9	265.9	287.9	295.8
70°	165.9	199.9	235.8	256.9	261.8
72.5°	141.0	174.9	208.9	220.9	218.9
75°	114.9	150.0	177.9	177.0	174.9
77.5°	90.0	123.9	141.0	133.9	131.0
80°	65.9	99.0	101.9	95.0	91.0
82.5°	45.0	70.9	64.0	55.9	51.9
85°	26.0	38.9	28.9	19.9	17.0
87.5°	10.9	10.0	3.0	3.0	1.9
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)