

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: P732650

Luminaire Tested: **14FCZ2-25-SQR-B2750-W2D-CP187-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732650
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-CP187-5000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND SQR LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

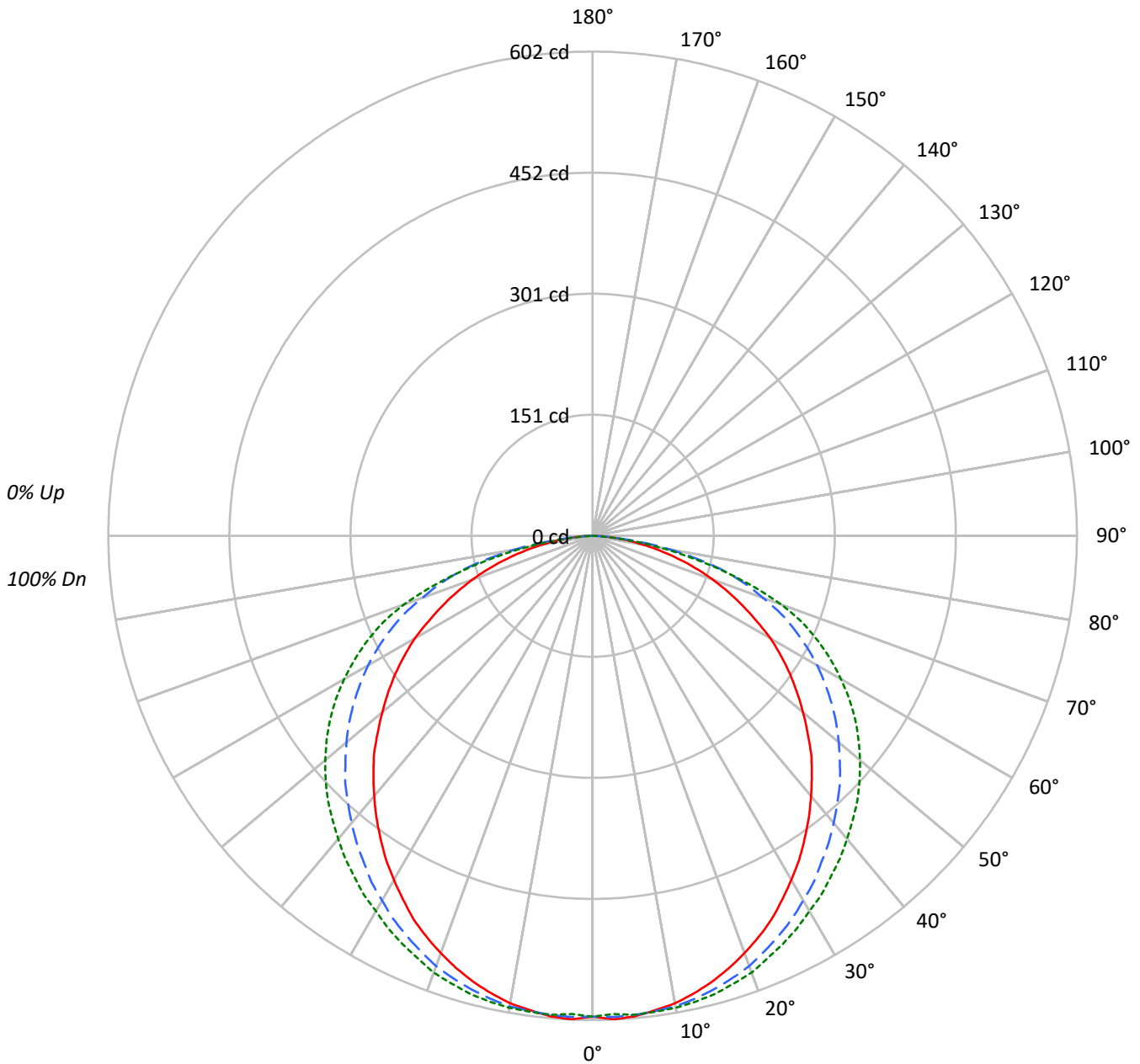
Lumens per Lamp: N/A
Luminaire Lumens: 1892.0 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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: P732650

CATALOG NUMBER: 14FCZ2-25-SQR-B2750-W2D-CP187-5000K

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	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°	1688	1688	1688
5°	1700	1694	1694
10°	1692	1703	1708
15°	1677	1705	1722
20°	1658	1710	1736
25°	1639	1708	1743
30°	1610	1707	1756
35°	1584	1708	1781
40°	1556	1718	1813
45°	1534	1736	1857
50°	1499	1754	1905
55°	1473	1783	1962
60°	1442	1820	2013
65°	1376	1853	2064
70°	1306	1857	2062
75°	1196	1852	1820
80°	1022	1580	1411
85°	803	894	525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	3.0
10°-20°	164.1	8.7
20°-30°	251.0	13.3
30°-40°	307.7	16.3
40°-50°	330.9	17.5
50°-60°	318.0	16.8
60°-70°	264.8	14.0
70°-80°	162.5	8.6
80°-90°	36.2	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°	472.0	24.9
0°-40°	779.7	41.2
0°-60°	1428.5	75.5
0°-90°	1892.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1892.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	598	598	598	598	598	
5°	600	594	598	598	598	57
15°	574	572	584	587	589	162
25°	526	531	548	555	560	242
35°	460	471	496	509	517	288
45°	384	402	435	455	465	296
55°	299	325	362	387	399	267
65°	206	237	277	300	309	204
75°	110	143	170	169	167	116
85°	25	37	28	19	16	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	597.9	597.9	597.9	597.9	597.9
2.5°	601.7	596.0	598.9	597.9	595.0
5°	599.8	594.1	597.9	597.9	597.9
7.5°	595.0	590.3	596.0	596.9	596.9
10°	590.3	586.5	594.1	595.0	596.0
12.5°	582.6	579.7	589.4	591.2	593.1
15°	574.0	572.2	583.6	587.4	589.4
17.5°	563.6	564.5	576.9	581.7	583.6
20°	552.1	555.0	569.3	574.0	577.9
22.5°	539.7	543.5	558.8	564.5	568.4
25°	526.3	531.1	548.3	555.0	559.8
27.5°	510.1	517.8	536.9	545.5	550.2
30°	494.0	502.6	523.6	534.0	538.8
32.5°	477.7	487.2	511.1	521.6	529.2
35°	459.6	471.1	495.8	509.2	516.8
37.5°	441.5	454.9	481.6	496.8	505.3
40°	422.4	436.8	466.2	483.4	492.0
42.5°	403.3	419.6	450.1	469.1	478.7
45°	384.3	401.5	434.8	454.9	465.3
47.5°	362.4	383.4	416.7	439.5	450.1
50°	341.4	364.2	399.5	423.4	433.9
52.5°	320.4	344.3	381.4	406.2	416.7
55°	299.4	325.1	362.4	387.1	398.6
57.5°	277.4	304.1	342.3	368.1	378.5
60°	255.5	283.2	322.4	346.1	356.6
62.5°	229.8	262.2	300.4	324.2	333.7
65°	206.0	237.4	277.4	300.4	309.0
67.5°	182.2	214.6	253.7	274.7	282.2
70°	158.3	190.8	225.0	245.1	249.8
72.5°	134.5	166.9	199.4	210.7	208.9
75°	109.7	143.1	169.8	168.8	166.9
77.5°	85.9	118.2	134.5	127.8	125.0
80°	62.9	94.5	97.2	90.6	86.8
82.5°	42.9	67.6	61.0	53.4	49.5
85°	24.8	37.1	27.6	19.0	16.2
87.5°	10.4	9.5	2.9	2.9	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)