

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: P732653

Luminaire Tested: **14FCZ2-25-SQR-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732653
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-CP250-3500K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SQR LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

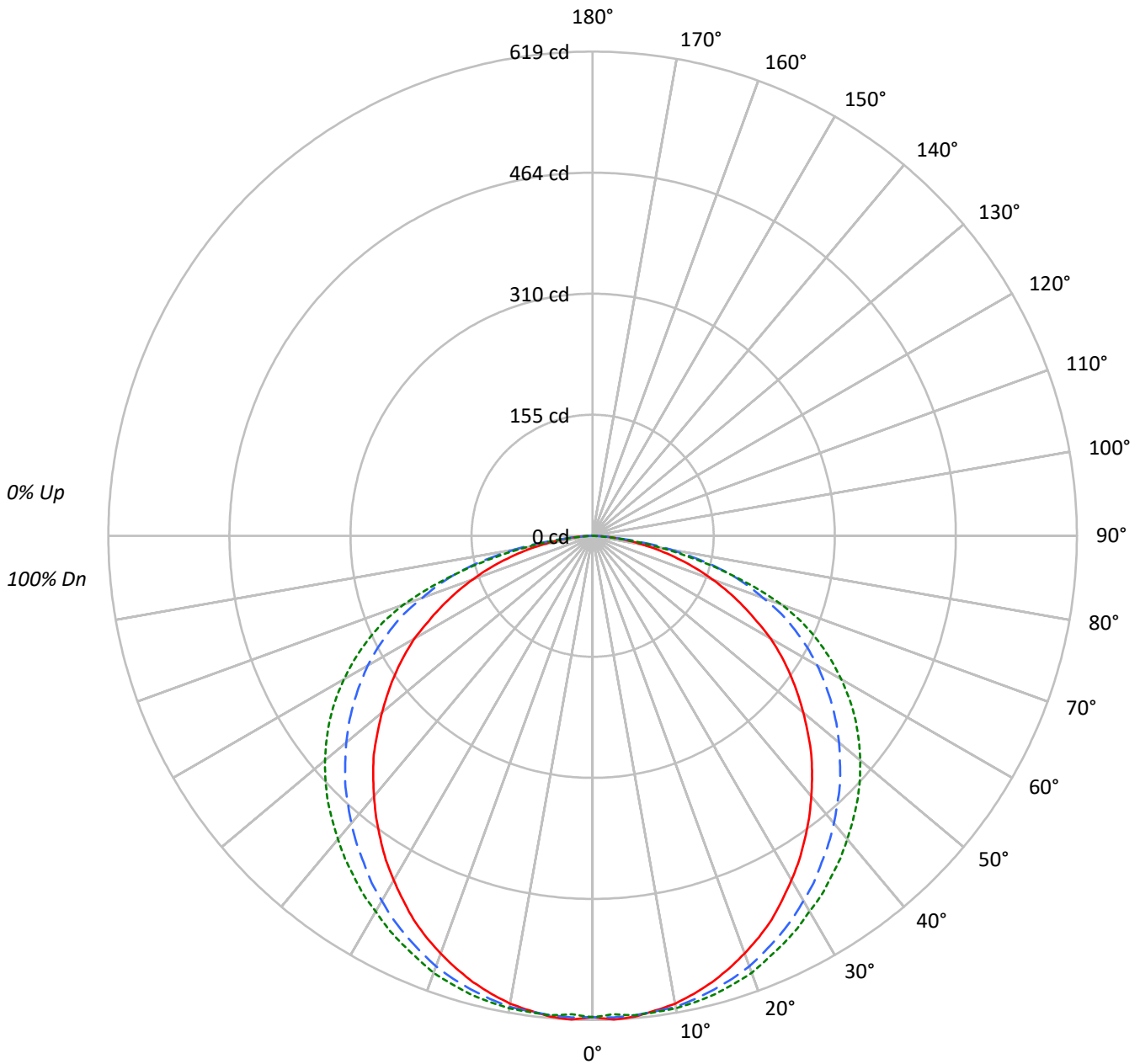
Lumens per Lamp: N/A
Luminaire Lumens: 1947.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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°	1737	1737	1737
5°	1749	1743	1743
10°	1741	1752	1758
15°	1726	1755	1772
20°	1707	1760	1786
25°	1687	1757	1794
30°	1657	1756	1807
35°	1630	1758	1833
40°	1602	1768	1866
45°	1579	1786	1911
50°	1543	1805	1961
55°	1516	1835	2019
60°	1484	1873	2071
65°	1416	1907	2124
70°	1344	1911	2122
75°	1230	1905	1873
80°	1052	1627	1452
85°	829	920	541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	3.0
10°-20°	168.9	8.7
20°-30°	258.3	13.3
30°-40°	316.6	16.3
40°-50°	340.5	17.5
50°-60°	327.2	16.8
60°-70°	272.5	14.0
70°-80°	167.2	8.6
80°-90°	37.2	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°	485.7	24.9
0°-40°	802.3	41.2
0°-60°	1470.0	75.5
0°-90°	1947.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1947.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	615	615	615	615	615	
5°	617	611	615	615	615	59
15°	591	589	600	604	606	167
25°	542	546	564	571	576	249
35°	473	485	510	524	532	296
45°	396	413	447	468	479	304
55°	308	335	373	398	410	275
65°	212	244	286	309	318	210
75°	113	147	175	174	172	120
85°	26	38	28	20	17	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	615.3	615.3	615.3	615.3	615.3
2.5°	619.1	613.3	616.3	615.3	612.3
5°	617.2	611.4	615.3	615.3	615.3
7.5°	612.3	607.4	613.3	614.2	614.2
10°	607.4	603.5	611.4	612.3	613.3
12.5°	599.6	596.6	606.5	608.4	610.3
15°	590.7	588.8	600.5	604.5	606.5
17.5°	580.0	580.9	593.7	598.6	600.5
20°	568.2	571.1	585.8	590.7	594.7
22.5°	555.4	559.3	575.1	580.9	584.9
25°	541.6	546.5	564.2	571.1	576.0
27.5°	524.9	532.8	552.5	561.3	566.2
30°	508.3	517.2	538.8	549.5	554.4
32.5°	491.6	501.4	526.0	536.8	544.6
35°	473.0	484.8	510.2	524.0	531.9
37.5°	454.4	468.1	495.6	511.2	520.0
40°	434.7	449.5	479.8	497.5	506.3
42.5°	415.1	431.8	463.2	482.8	492.6
45°	395.5	413.2	447.4	468.1	478.8
47.5°	372.9	394.5	428.8	452.3	463.2
50°	351.3	374.8	411.1	435.7	446.5
52.5°	329.7	354.3	392.5	418.1	428.8
55°	308.1	334.6	372.9	398.4	410.2
57.5°	285.5	313.0	352.3	378.8	389.5
60°	262.9	291.5	331.7	356.2	366.9
62.5°	236.4	269.9	309.2	333.6	343.4
65°	212.0	244.3	285.5	309.2	318.0
67.5°	187.5	220.8	261.0	282.6	290.4
70°	162.9	196.3	231.5	252.2	257.1
72.5°	138.4	171.7	205.1	216.8	214.9
75°	112.8	147.2	174.7	173.7	171.7
77.5°	88.4	121.7	138.4	131.5	128.6
80°	64.7	97.2	100.1	93.3	89.3
82.5°	44.2	69.6	62.8	54.9	51.0
85°	25.6	38.2	28.4	19.6	16.7
87.5°	10.7	9.8	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)