

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: P732640

Luminaire Tested: **14FCZ2-25-SQR-B2750-W2D-CA08-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732640
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-CA08-5000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND SQR LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

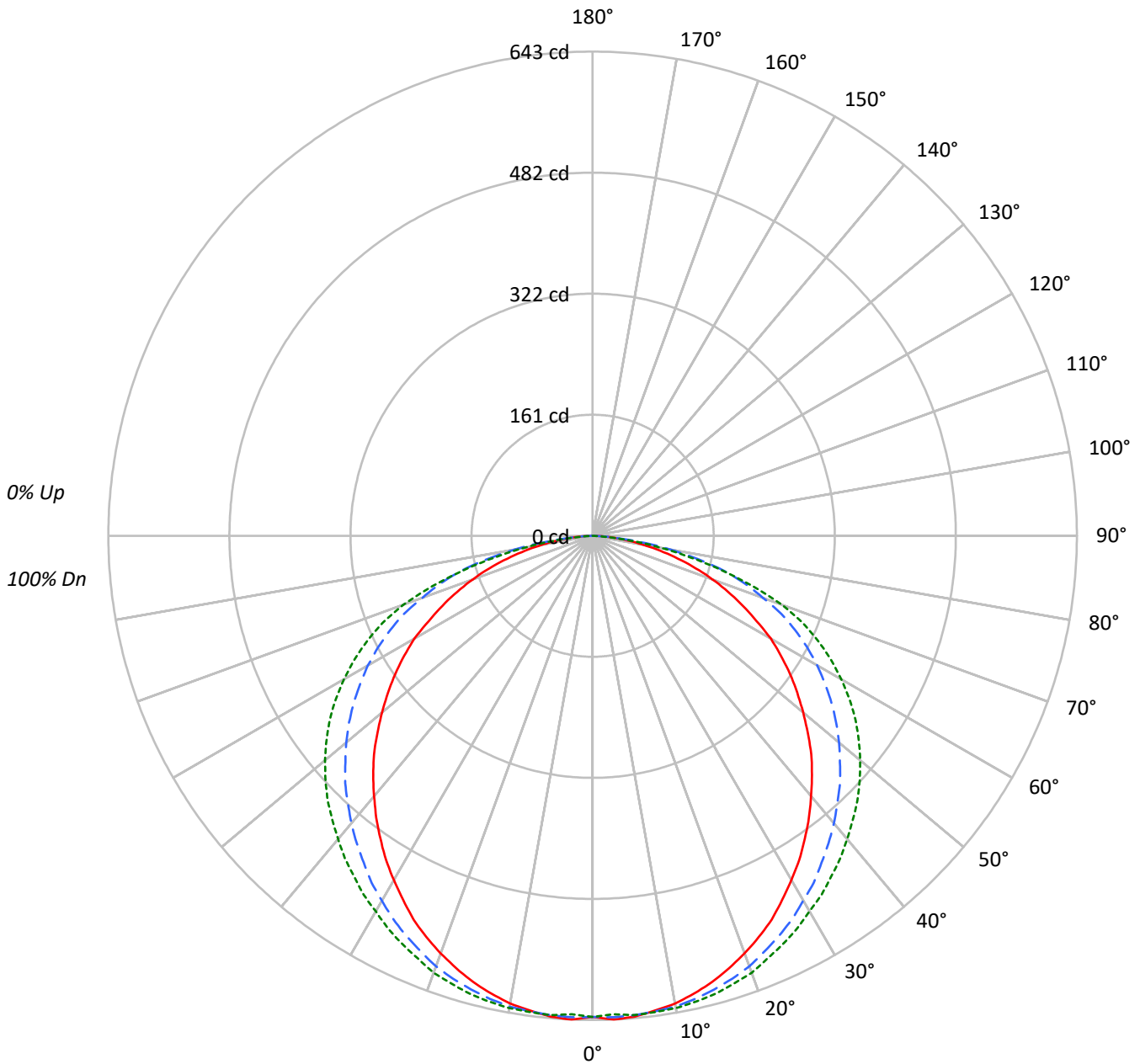
Lumens per Lamp: N/A
Luminaire Lumens: 2022.0 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

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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°	1804	1804	1804
5°	1816	1811	1811
10°	1808	1820	1825
15°	1793	1822	1840
20°	1772	1828	1855
25°	1752	1825	1863
30°	1721	1824	1877
35°	1693	1826	1903
40°	1663	1836	1937
45°	1639	1855	1985
50°	1602	1875	2036
55°	1574	1906	2096
60°	1542	1945	2151
65°	1470	1980	2205
70°	1396	1985	2204
75°	1278	1978	1945
80°	1092	1689	1508
85°	858	955	564



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	3.0
10°-20°	175.4	8.7
20°-30°	268.3	13.3
30°-40°	328.8	16.3
40°-50°	353.6	17.5
50°-60°	339.8	16.8
60°-70°	283.0	14.0
70°-80°	173.7	8.6
80°-90°	38.7	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°	504.4	24.9
0°-40°	833.2	41.2
0°-60°	1526.7	75.5
0°-90°	2022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2022.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	639	639	639	639	639	
5°	641	635	639	639	639	61
15°	614	612	624	628	630	173
25°	562	568	586	593	598	259
35°	491	504	530	544	552	307
45°	411	429	465	486	497	316
55°	320	348	387	414	426	286
65°	220	254	296	321	330	218
75°	117	153	181	180	178	124
85°	26	40	30	20	17	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	639.0	639.0	639.0	639.0	639.0
2.5°	643.0	636.9	640.0	639.0	635.9
5°	641.0	634.9	639.0	639.0	639.0
7.5°	635.9	630.8	636.9	637.9	637.9
10°	630.8	626.7	634.9	635.9	636.9
12.5°	622.7	619.6	629.8	631.8	633.8
15°	613.5	611.5	623.6	627.7	629.8
17.5°	602.3	603.3	616.6	621.7	623.6
20°	590.0	593.1	608.4	613.5	617.6
22.5°	576.8	580.9	597.2	603.3	607.4
25°	562.5	567.6	585.9	593.1	598.2
27.5°	545.1	553.3	573.8	583.0	588.1
30°	527.9	537.1	559.5	570.7	575.8
32.5°	510.6	520.7	546.3	557.4	565.6
35°	491.2	503.5	529.9	544.2	552.3
37.5°	471.9	486.1	514.6	530.9	540.1
40°	451.4	466.8	498.3	516.6	525.8
42.5°	431.1	448.4	481.0	501.4	511.5
45°	410.7	429.1	464.7	486.1	497.3
47.5°	387.3	409.7	445.3	469.8	481.0
50°	364.8	389.3	427.0	452.5	463.7
52.5°	342.4	367.9	407.6	434.2	445.3
55°	319.9	347.5	387.3	413.7	426.0
57.5°	296.5	325.0	365.8	393.4	404.5
60°	273.1	302.7	344.5	369.9	381.1
62.5°	245.5	280.3	321.1	346.5	356.7
65°	220.1	253.7	296.5	321.1	330.2
67.5°	194.7	229.3	271.1	293.5	301.6
70°	169.2	203.9	240.5	261.9	267.0
72.5°	143.7	178.3	213.0	225.2	223.2
75°	117.2	152.9	181.4	180.4	178.3
77.5°	91.8	126.4	143.7	136.5	133.6
80°	67.2	100.9	103.9	96.9	92.8
82.5°	45.9	72.3	65.2	57.0	53.0
85°	26.5	39.7	29.5	20.3	17.4
87.5°	11.2	10.2	3.1	3.1	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)