

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: P732492

Luminaire Tested: **14FCZ2-20-S-B2750-W2D-CA125-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275670)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-20-S-B2750-W2D-CA125-3000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND SMOOTH LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

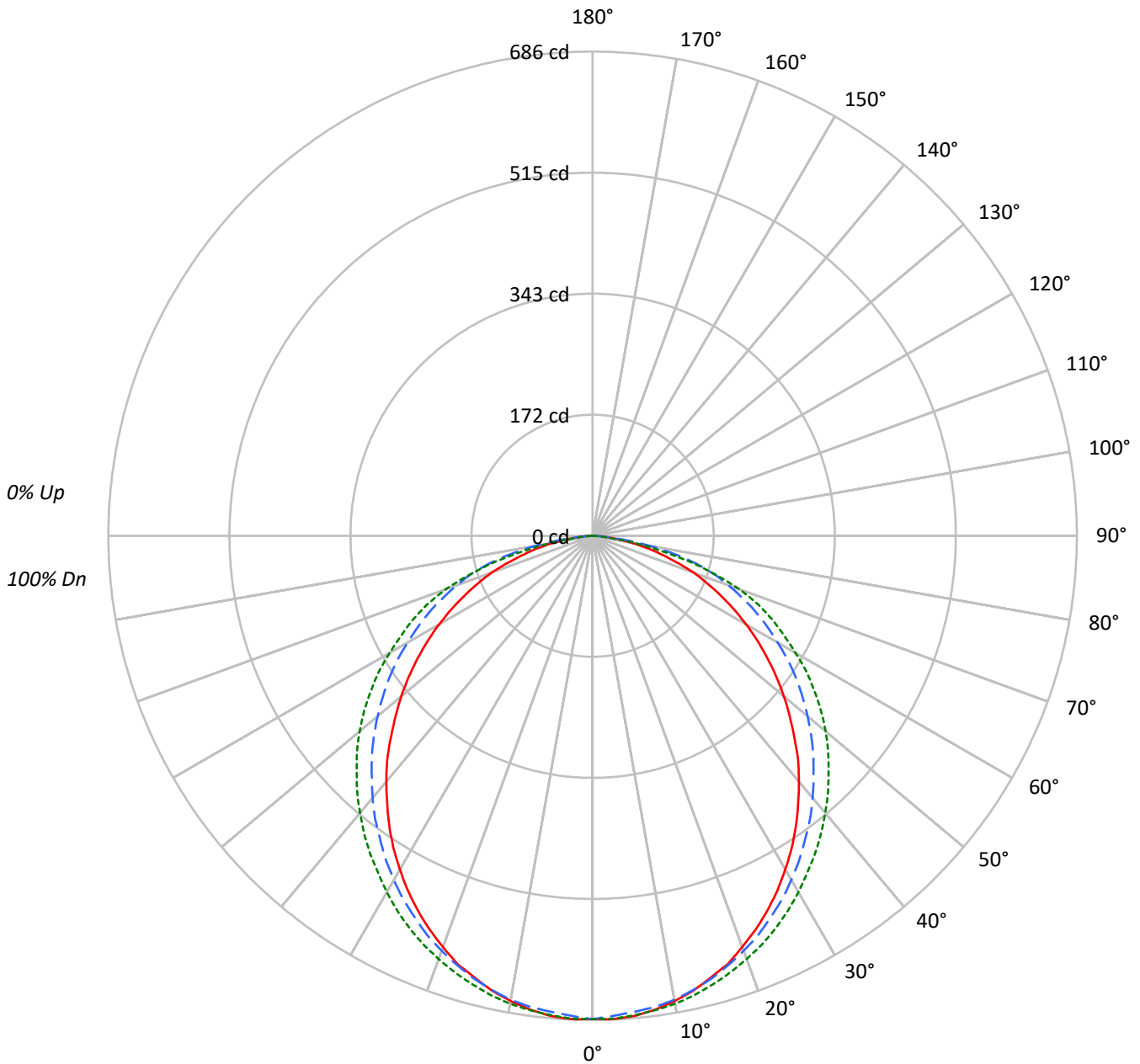
Lumens per Lamp: N/A
Luminaire Lumens: 1918.0 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84																			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70																			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58																			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43																			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27																			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1933	1933	1933
5°	1935	1919	1932
10°	1919	1913	1930
15°	1892	1898	1923
20°	1862	1879	1917
25°	1824	1857	1910
30°	1779	1835	1900
35°	1730	1809	1894
40°	1675	1787	1889
45°	1613	1765	1887
50°	1554	1746	1892
55°	1488	1732	1886
60°	1418	1707	1874
65°	1334	1702	1874
70°	1256	1688	1821
75°	1090	1649	1555
80°	881	1330	1035
85°	586	460	311



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	3.4
10°-20°	184.0	9.6
20°-30°	276.0	14.4
30°-40°	329.2	17.2
40°-50°	340.3	17.7
50°-60°	310.7	16.2
60°-70°	244.5	12.7
70°-80°	142.3	7.4
80°-90°	26.2	1.4
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°	524.6	27.4
0°-40°	853.8	44.5
0°-60°	1504.9	78.5
0°-90°	1918.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1918.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	685	685	685	685	685	
5°	683	681	677	683	682	65
15°	648	649	650	658	658	183
25°	586	589	596	610	613	270
35°	502	509	525	545	550	314
45°	404	418	442	467	473	312
55°	302	319	352	378	383	270
65°	200	221	255	275	281	198
75°	100	124	151	148	143	106
85°	18	26	14	11	10	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	684.7	684.7	684.7	684.7	684.7
2.5°	685.6	683.8	680.9	685.6	684.7
5°	682.8	680.9	677.1	682.8	681.8
7.5°	677.1	675.1	673.3	679.0	678.1
10°	669.4	668.5	667.6	674.2	673.3
12.5°	660.0	660.0	659.1	666.6	666.6
15°	647.6	648.6	649.5	658.0	658.0
17.5°	636.2	635.3	638.1	647.6	648.6
20°	620.0	621.9	625.7	637.2	638.1
22.5°	603.8	605.8	612.5	623.9	626.7
25°	585.8	588.7	596.3	610.5	613.4
27.5°	566.8	570.6	581.0	596.3	599.1
30°	545.8	551.5	562.9	580.1	583.0
32.5°	524.9	530.7	544.9	562.0	565.8
35°	502.1	508.7	524.9	544.9	549.6
37.5°	478.3	486.8	506.0	525.9	531.6
40°	454.6	464.1	485.0	506.0	512.6
42.5°	430.8	440.3	463.1	486.8	493.6
45°	404.1	417.5	442.2	466.9	472.6
47.5°	378.5	392.8	420.3	445.0	452.7
50°	353.8	368.0	397.5	423.2	430.8
52.5°	328.1	343.3	374.6	401.3	408.0
55°	302.4	318.6	351.9	377.5	383.3
57.5°	276.7	293.9	328.1	352.8	359.5
60°	251.1	269.2	302.4	327.1	331.9
62.5°	225.4	244.4	278.6	300.5	305.3
65°	199.7	220.6	254.8	274.9	280.6
67.5°	175.0	195.9	229.2	248.2	253.0
70°	152.2	171.2	204.5	218.7	220.6
72.5°	123.6	147.4	179.7	187.4	182.6
75°	99.9	123.6	151.2	148.3	142.6
77.5°	76.1	99.9	117.9	108.4	100.8
80°	54.2	78.0	81.8	67.5	63.7
82.5°	35.2	54.2	45.7	35.2	28.5
85°	18.1	25.6	14.2	11.4	9.6
87.5°	5.7	3.8	1.9	1.9	0.9
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)