

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: P732488

Luminaire Tested: **14FCZ2-20-S-B2750-W2D-CA08-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732488
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-CA08-3500K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SMOOTH LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

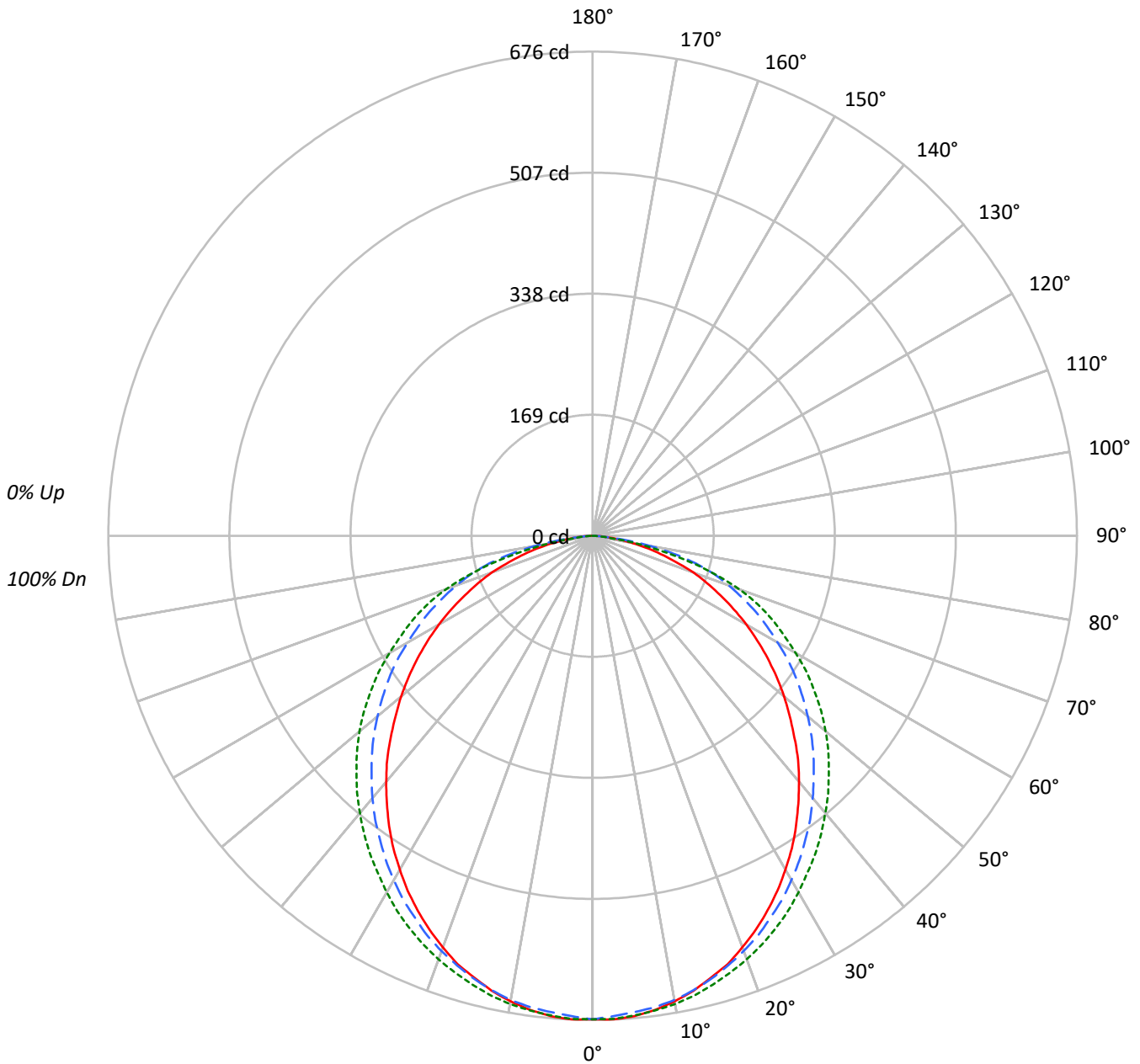
Lumens per Lamp: N/A
Luminaire Lumens: 1891.0 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1906	1906	1906
5°	1907	1892	1905
10°	1892	1887	1903
15°	1866	1871	1896
20°	1836	1853	1890
25°	1799	1831	1884
30°	1754	1809	1873
35°	1706	1784	1867
40°	1652	1762	1862
45°	1590	1740	1860
50°	1532	1721	1865
55°	1467	1708	1860
60°	1398	1683	1847
65°	1315	1678	1847
70°	1238	1664	1795
75°	1074	1626	1533
80°	868	1310	1021
85°	576	453	304



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	3.4
10°-20°	181.4	9.6
20°-30°	272.1	14.4
30°-40°	324.6	17.2
40°-50°	335.5	17.7
50°-60°	306.4	16.2
60°-70°	241.1	12.7
70°-80°	140.3	7.4
80°-90°	25.8	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°	517.2	27.4
0°-40°	841.8	44.5
0°-60°	1483.7	78.5
0°-90°	1891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1891.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	675	675	675	675	675	
5°	673	671	668	673	672	64
15°	638	639	640	649	649	180
25°	578	580	588	602	605	266
35°	495	502	518	537	542	309
45°	398	412	436	460	466	308
55°	298	314	347	372	378	267
65°	197	218	251	271	277	196
75°	98	122	149	146	141	105
85°	18	25	14	11	9	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	675.1	675.1	675.1	675.1	675.1
2.5°	676.0	674.1	671.3	676.0	675.1
5°	673.2	671.3	667.6	673.2	672.2
7.5°	667.6	665.6	663.8	669.4	668.5
10°	660.0	659.1	658.2	664.7	663.8
12.5°	650.7	650.7	649.8	657.3	657.3
15°	638.5	639.4	640.4	648.8	648.8
17.5°	627.3	626.4	629.1	638.5	639.4
20°	611.3	613.1	616.9	628.2	629.1
22.5°	595.3	597.3	603.8	615.1	617.8
25°	577.5	580.4	587.9	601.9	604.8
27.5°	558.8	562.6	572.8	587.9	590.6
30°	538.1	543.7	555.0	571.9	574.8
32.5°	517.6	523.2	537.2	554.1	557.9
35°	495.0	501.6	517.6	537.2	541.9
37.5°	471.6	480.0	498.8	518.5	524.1
40°	448.2	457.6	478.1	498.8	505.4
42.5°	424.7	434.1	456.6	480.0	486.7
45°	398.4	411.6	436.0	460.3	466.0
47.5°	373.1	387.3	414.4	438.7	446.3
50°	348.8	362.8	391.9	417.3	424.7
52.5°	323.5	338.4	369.4	395.7	402.2
55°	298.1	314.1	347.0	372.2	377.9
57.5°	272.9	289.7	323.5	347.9	354.4
60°	247.6	265.4	298.1	322.5	327.2
62.5°	222.2	240.9	274.7	296.3	301.0
65°	196.9	217.5	251.3	271.0	276.6
67.5°	172.6	193.1	226.0	244.7	249.4
70°	150.0	168.8	201.6	215.6	217.5
72.5°	121.9	145.3	177.2	184.7	180.0
75°	98.5	121.9	149.1	146.2	140.6
77.5°	75.0	98.5	116.3	106.8	99.4
80°	53.4	76.9	80.6	66.5	62.8
82.5°	34.7	53.4	45.0	34.7	28.1
85°	17.8	25.3	14.0	11.3	9.4
87.5°	5.6	3.8	1.8	1.8	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)