

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: P732490

Luminaire Tested: **14FCZ2-20-S-B2750-W2D-CA08-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732490
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-CA08-5000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND SMOOTH LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

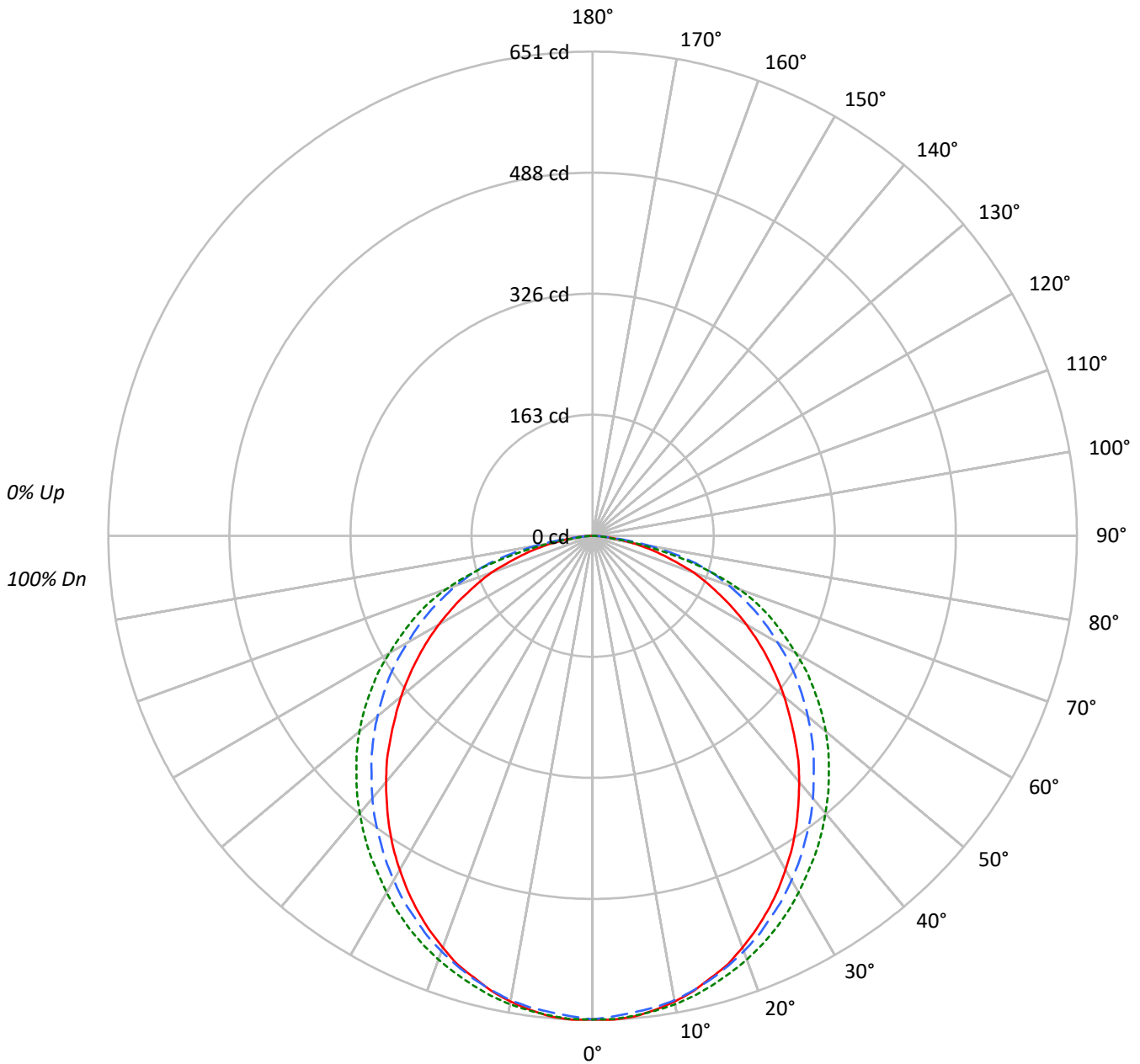
Lumens per Lamp: N/A
Luminaire Lumens: 1822.0 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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°	1836	1836	1836
5°	1838	1822	1835
10°	1823	1818	1833
15°	1798	1803	1827
20°	1769	1785	1821
25°	1733	1764	1815
30°	1690	1743	1805
35°	1644	1718	1799
40°	1591	1698	1794
45°	1532	1677	1792
50°	1476	1658	1797
55°	1413	1645	1792
60°	1346	1621	1780
65°	1267	1617	1780
70°	1193	1604	1729
75°	1035	1567	1478
80°	837	1263	983
85°	557	437	295



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	3.4
10°-20°	174.8	9.6
20°-30°	262.2	14.4
30°-40°	312.7	17.2
40°-50°	323.3	17.7
50°-60°	295.2	16.2
60°-70°	232.3	12.7
70°-80°	135.2	7.4
80°-90°	24.9	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°	498.4	27.4
0°-40°	811.1	44.5
0°-60°	1429.6	78.5
0°-90°	1822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1822.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	650	650	650	650	650	
5°	649	647	643	649	648	61
15°	615	616	617	625	625	174
25°	556	559	566	580	583	256
35°	477	483	499	518	522	298
45°	384	397	420	444	449	296
55°	287	303	334	359	364	257
65°	190	210	242	261	266	188
75°	95	117	144	141	136	101
85°	17	24	14	11	9	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	650.4	650.4	650.4	650.4	650.4
2.5°	651.3	649.5	646.8	651.3	650.4
5°	648.7	646.8	643.2	648.7	647.7
7.5°	643.2	641.4	639.6	645.0	644.1
10°	635.9	635.0	634.2	640.5	639.6
12.5°	627.0	627.0	626.1	633.3	633.3
15°	615.2	616.1	617.0	625.1	625.1
17.5°	604.4	603.5	606.2	615.2	616.1
20°	589.0	590.8	594.4	605.3	606.2
22.5°	573.6	575.5	581.8	592.6	595.3
25°	556.5	559.2	566.4	579.9	582.7
27.5°	538.4	542.1	551.9	566.4	569.1
30°	518.5	523.9	534.8	551.0	553.8
32.5°	498.7	504.1	517.6	533.9	537.5
35°	477.0	483.3	498.7	517.6	522.1
37.5°	454.4	462.5	480.6	499.6	505.0
40°	431.8	440.9	460.7	480.6	486.9
42.5°	409.2	418.3	439.9	462.5	468.9
45°	383.9	396.6	420.1	443.5	449.0
47.5°	359.5	373.1	399.3	422.7	430.0
50°	336.1	349.6	377.6	402.0	409.2
52.5°	311.7	326.1	355.9	381.2	387.5
55°	287.2	302.6	334.3	358.6	364.1
57.5°	262.9	279.2	311.7	335.2	341.5
60°	238.5	255.7	287.2	310.7	315.3
62.5°	214.1	232.1	264.7	285.5	290.0
65°	189.7	209.5	242.1	261.1	266.5
67.5°	166.3	186.1	217.7	235.8	240.3
70°	144.6	162.6	194.3	207.8	209.5
72.5°	117.4	140.0	170.7	178.0	173.5
75°	94.9	117.4	143.7	140.9	135.5
77.5°	72.3	94.9	112.0	102.9	95.7
80°	51.5	74.1	77.7	64.1	60.5
82.5°	33.4	51.5	43.4	33.4	27.1
85°	17.2	24.4	13.5	10.8	9.1
87.5°	5.4	3.7	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)