

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: P732493

Luminaire Tested: **14FCZ2-20-S-B2750-W2D-CA125-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732493
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-CA125-3500K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SMOOTH LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

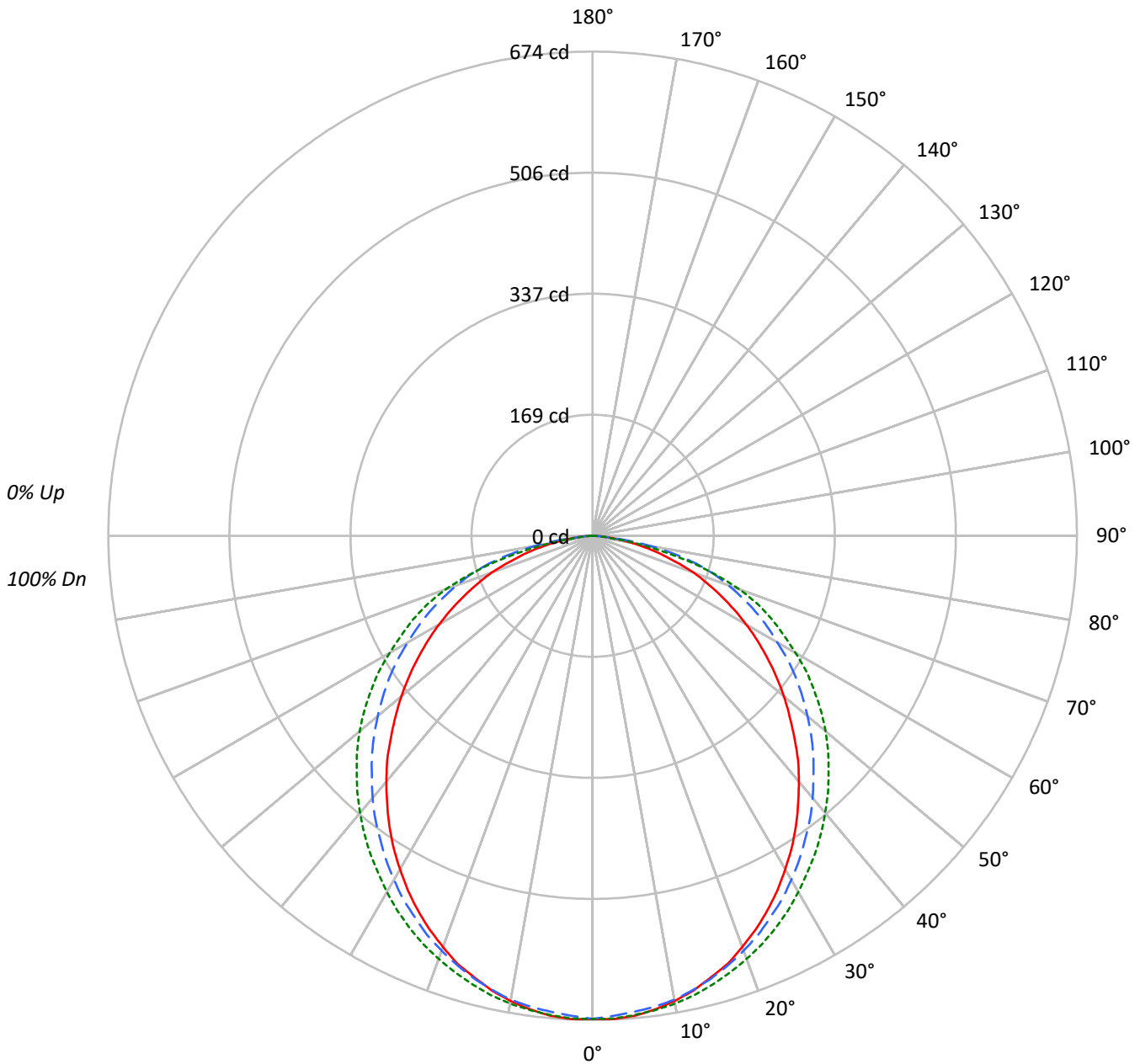
Lumens per Lamp: N/A
Luminaire Lumens: 1884.0 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1899	1899	1899
5°	1900	1885	1898
10°	1885	1879	1895
15°	1859	1864	1889
20°	1829	1846	1883
25°	1792	1824	1876
30°	1747	1802	1866
35°	1699	1777	1860
40°	1645	1755	1855
45°	1584	1734	1853
50°	1526	1714	1858
55°	1462	1701	1853
60°	1393	1677	1840
65°	1310	1672	1841
70°	1234	1658	1788
75°	1070	1621	1528
80°	865	1307	1018
85°	573	453	304



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	3.4
10°-20°	180.7	9.6
20°-30°	271.1	14.4
30°-40°	323.4	17.2
40°-50°	334.3	17.7
50°-60°	305.2	16.2
60°-70°	240.2	12.7
70°-80°	139.8	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°	515.3	27.4
0°-40°	838.7	44.5
0°-60°	1478.2	78.5
0°-90°	1884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1884.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	673	673	673	673	673	
5°	671	669	665	671	670	64
15°	636	637	638	646	646	180
25°	575	578	586	600	602	265
35°	493	500	516	535	540	308
45°	397	410	434	459	464	307
55°	297	313	346	371	376	266
65°	196	217	250	270	276	195
75°	98	121	149	146	140	104
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°	672.6	672.6	672.6	672.6	672.6
2.5°	673.5	671.6	668.8	673.5	672.6
5°	670.7	668.8	665.1	670.7	669.7
7.5°	665.1	663.2	661.3	667.0	666.0
10°	657.6	656.7	655.7	662.3	661.3
12.5°	648.3	648.3	647.4	654.8	654.8
15°	636.2	637.1	638.0	646.4	646.4
17.5°	624.9	624.0	626.8	636.2	637.1
20°	609.0	610.9	614.6	625.9	626.8
22.5°	593.1	595.1	601.6	612.8	615.6
25°	575.4	578.2	585.7	599.7	602.5
27.5°	556.7	560.5	570.7	585.7	588.4
30°	536.1	541.7	553.0	569.8	572.6
32.5°	515.6	521.2	535.2	552.0	555.8
35°	493.2	499.7	515.6	535.2	539.9
37.5°	469.9	478.2	497.0	516.6	522.2
40°	446.5	455.9	476.4	497.0	503.5
42.5°	423.2	432.5	454.9	478.2	484.8
45°	396.9	410.1	434.4	458.6	464.2
47.5°	371.8	385.8	412.9	437.1	444.7
50°	347.5	361.5	390.4	415.7	423.2
52.5°	322.3	337.2	368.0	394.2	400.7
55°	297.0	312.9	345.7	370.8	376.5
57.5°	271.8	288.7	322.3	346.6	353.1
60°	246.7	264.4	297.0	321.3	326.0
62.5°	221.4	240.0	273.7	295.2	299.9
65°	196.2	216.7	250.3	270.0	275.6
67.5°	171.9	192.4	225.1	243.8	248.5
70°	149.5	168.1	200.9	214.8	216.7
72.5°	121.4	144.8	176.5	184.1	179.4
75°	98.1	121.4	148.6	145.7	140.1
77.5°	74.7	98.1	115.8	106.4	99.0
80°	53.2	76.6	80.4	66.3	62.6
82.5°	34.6	53.2	44.9	34.6	28.0
85°	17.7	25.2	14.0	11.2	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)