

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: P732498

Luminaire Tested: **14FCZ2-20-S-B2750-W2D-CP187-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732498
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-CP187-3500K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SMOOTH LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

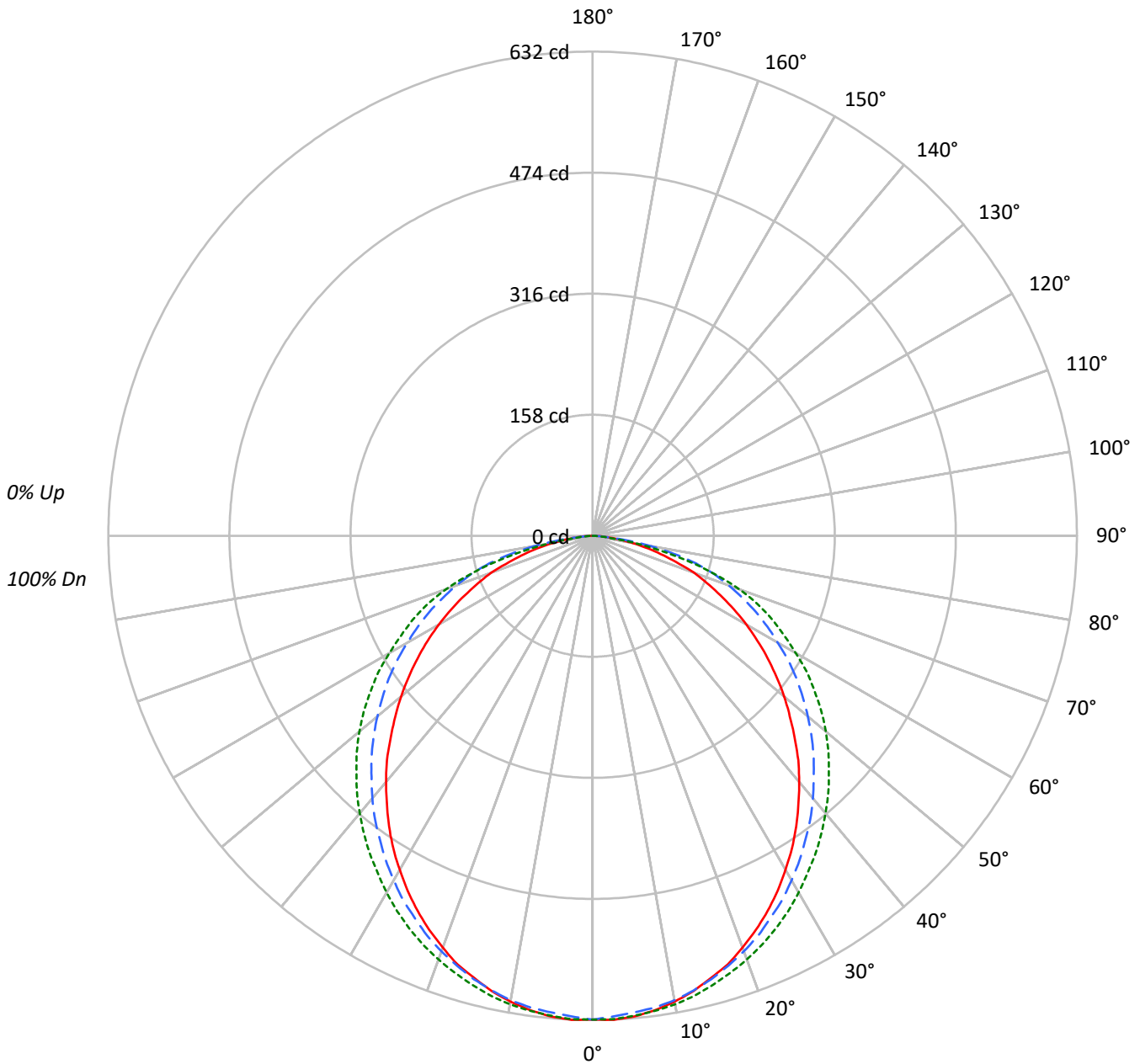
Lumens per Lamp: N/A
Luminaire Lumens: 1769.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1783	1783	1783
5°	1785	1769	1782
10°	1770	1765	1780
15°	1745	1751	1774
20°	1718	1734	1768
25°	1683	1713	1762
30°	1641	1692	1753
35°	1596	1668	1747
40°	1545	1648	1742
45°	1488	1628	1740
50°	1433	1610	1745
55°	1373	1597	1740
60°	1307	1574	1728
65°	1230	1570	1729
70°	1159	1557	1679
75°	1004	1521	1434
80°	813	1226	956
85°	541	424	285



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	3.4
10°-20°	169.7	9.6
20°-30°	254.5	14.4
30°-40°	303.6	17.2
40°-50°	313.9	17.7
50°-60°	286.6	16.2
60°-70°	225.5	12.7
70°-80°	131.3	7.4
80°-90°	24.2	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°	483.9	27.4
0°-40°	787.5	44.5
0°-60°	1388.0	78.5
0°-90°	1769.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1769.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	632	632	632	632	632	
5°	630	628	624	630	629	60
15°	597	598	599	607	607	169
25°	540	543	550	563	566	249
35°	463	469	484	502	507	289
45°	373	385	408	431	436	288
55°	279	294	325	348	354	249
65°	184	203	235	254	259	183
75°	92	114	140	137	132	98
85°	17	24	13	10	9	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	631.5	631.5	631.5	631.5	631.5
2.5°	632.4	630.6	628.0	632.4	631.5
5°	629.8	628.0	624.5	629.8	628.8
7.5°	624.5	622.7	621.0	626.2	625.4
10°	617.4	616.6	615.7	621.8	621.0
12.5°	608.7	608.7	607.9	614.9	614.9
15°	597.3	598.2	599.1	606.9	606.9
17.5°	586.8	585.9	588.5	597.3	598.2
20°	571.9	573.6	577.1	587.7	588.5
22.5°	556.9	558.8	564.9	575.4	578.0
25°	540.3	543.0	549.9	563.0	565.7
27.5°	522.7	526.3	535.9	549.9	552.5
30°	503.4	508.7	519.2	535.0	537.7
32.5°	484.2	489.4	502.5	518.3	521.9
35°	463.1	469.2	484.2	502.5	506.9
37.5°	441.2	449.0	466.6	485.0	490.3
40°	419.3	428.1	447.3	466.6	472.8
42.5°	397.3	406.1	427.1	449.0	455.3
45°	372.7	385.1	407.9	430.6	435.9
47.5°	349.1	362.3	387.7	410.4	417.5
50°	326.3	339.4	366.6	390.3	397.3
52.5°	302.6	316.6	345.5	370.1	376.3
55°	278.9	293.8	324.6	348.2	353.5
57.5°	255.2	271.0	302.6	325.4	331.6
60°	231.6	248.3	278.9	301.7	306.1
62.5°	207.9	225.4	257.0	277.2	281.6
65°	184.2	203.4	235.0	253.5	258.8
67.5°	161.4	180.7	211.4	228.9	233.3
70°	140.4	157.9	188.6	201.7	203.4
72.5°	114.0	136.0	165.7	172.8	168.4
75°	92.1	114.0	139.5	136.8	131.5
77.5°	70.2	92.1	108.8	99.9	93.0
80°	50.0	71.9	75.4	62.2	58.8
82.5°	32.5	50.0	42.1	32.5	26.3
85°	16.7	23.6	13.1	10.5	8.8
87.5°	5.3	3.5	1.7	1.7	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)