

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: P732499

Luminaire Tested: **14FCZ2-20-S-B2750-W2D-CP187-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732499
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-CP187-4000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND SMOOTH LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

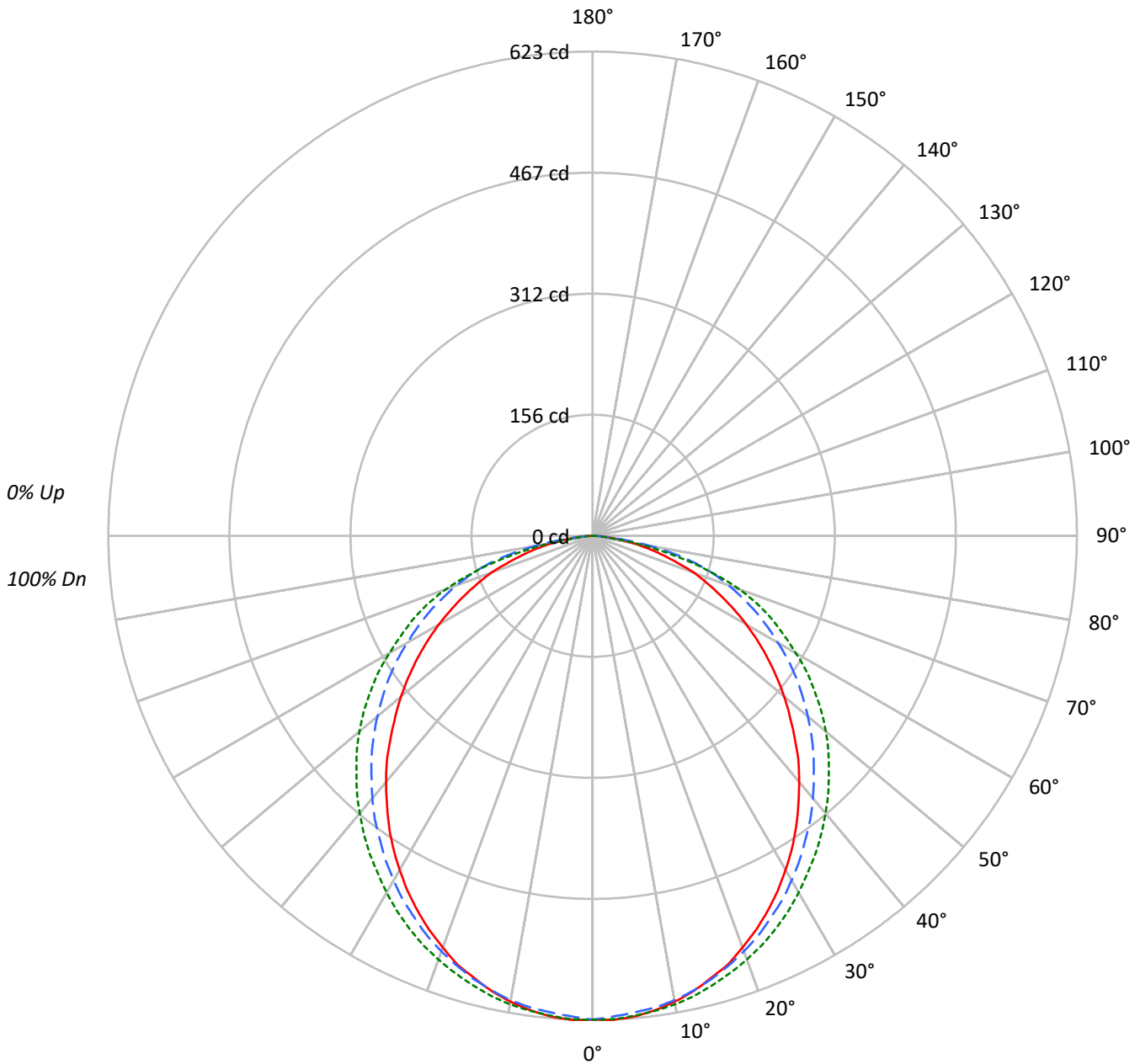
Lumens per Lamp: N/A
Luminaire Lumens: 1744.0 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1757	1757	1757
5°	1759	1745	1756
10°	1745	1740	1755
15°	1721	1726	1748
20°	1694	1709	1743
25°	1659	1689	1737
30°	1618	1668	1728
35°	1573	1645	1722
40°	1523	1625	1717
45°	1467	1605	1715
50°	1413	1587	1720
55°	1353	1575	1715
60°	1289	1552	1704
65°	1213	1548	1704
70°	1142	1534	1656
75°	990	1500	1415
80°	801	1209	943
85°	531	418	282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.8	3.4
10°-20°	167.3	9.6
20°-30°	250.9	14.4
30°-40°	299.3	17.2
40°-50°	309.5	17.7
50°-60°	282.5	16.2
60°-70°	222.3	12.7
70°-80°	129.4	7.4
80°-90°	23.8	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°	477.0	27.4
0°-40°	776.4	44.5
0°-60°	1368.4	78.5
0°-90°	1744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1744.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	623	623	623	623	623	
5°	621	619	616	621	620	59
15°	589	590	591	598	598	166
25°	533	535	542	555	558	245
35°	457	463	477	495	500	285
45°	367	380	402	425	430	284
55°	275	290	320	343	348	246
65°	182	201	232	250	255	180
75°	91	112	138	135	130	97
85°	16	23	13	10	9	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	622.6	622.6	622.6	622.6	622.6
2.5°	623.4	621.7	619.1	623.4	622.6
5°	620.9	619.1	615.7	620.9	619.9
7.5°	615.7	613.9	612.2	617.4	616.5
10°	608.7	607.9	607.0	613.0	612.2
12.5°	600.1	600.1	599.3	606.2	606.2
15°	588.9	589.7	590.6	598.3	598.3
17.5°	578.5	577.7	580.2	588.9	589.7
20°	563.8	565.5	569.0	579.4	580.2
22.5°	549.1	550.9	556.9	567.3	569.8
25°	532.6	535.3	542.2	555.1	557.7
27.5°	515.4	518.9	528.3	542.2	544.7
30°	496.3	501.5	511.9	527.4	530.1
32.5°	477.3	482.5	495.4	511.0	514.5
35°	456.6	462.6	477.3	495.4	499.8
37.5°	434.9	442.7	460.1	478.2	483.4
40°	413.3	422.0	441.0	460.1	466.1
42.5°	391.7	400.4	421.1	442.7	448.8
45°	367.4	379.6	402.1	424.6	429.7
47.5°	344.1	357.2	382.2	404.6	411.6
50°	321.7	334.6	361.4	384.8	391.7
52.5°	298.4	312.1	340.6	364.9	370.9
55°	275.0	289.7	320.0	343.3	348.5
57.5°	251.6	267.2	298.4	320.8	326.9
60°	228.3	244.8	275.0	297.4	301.8
62.5°	204.9	222.2	253.3	273.3	277.6
65°	181.6	200.6	231.7	249.9	255.1
67.5°	159.1	178.1	208.4	225.7	230.0
70°	138.4	155.6	185.9	198.9	200.6
72.5°	112.4	134.0	163.4	170.4	166.0
75°	90.8	112.4	137.5	134.9	129.7
77.5°	69.2	90.8	107.2	98.5	91.7
80°	49.3	70.9	74.4	61.3	58.0
82.5°	32.0	49.3	41.5	32.0	26.0
85°	16.4	23.3	12.9	10.4	8.7
87.5°	5.2	3.5	1.7	1.7	0.8
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)