

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: P732497

Luminaire Tested: **14FCZ2-20-S-B2750-W2D-CP187-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732497
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-CP187-3000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND SMOOTH LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

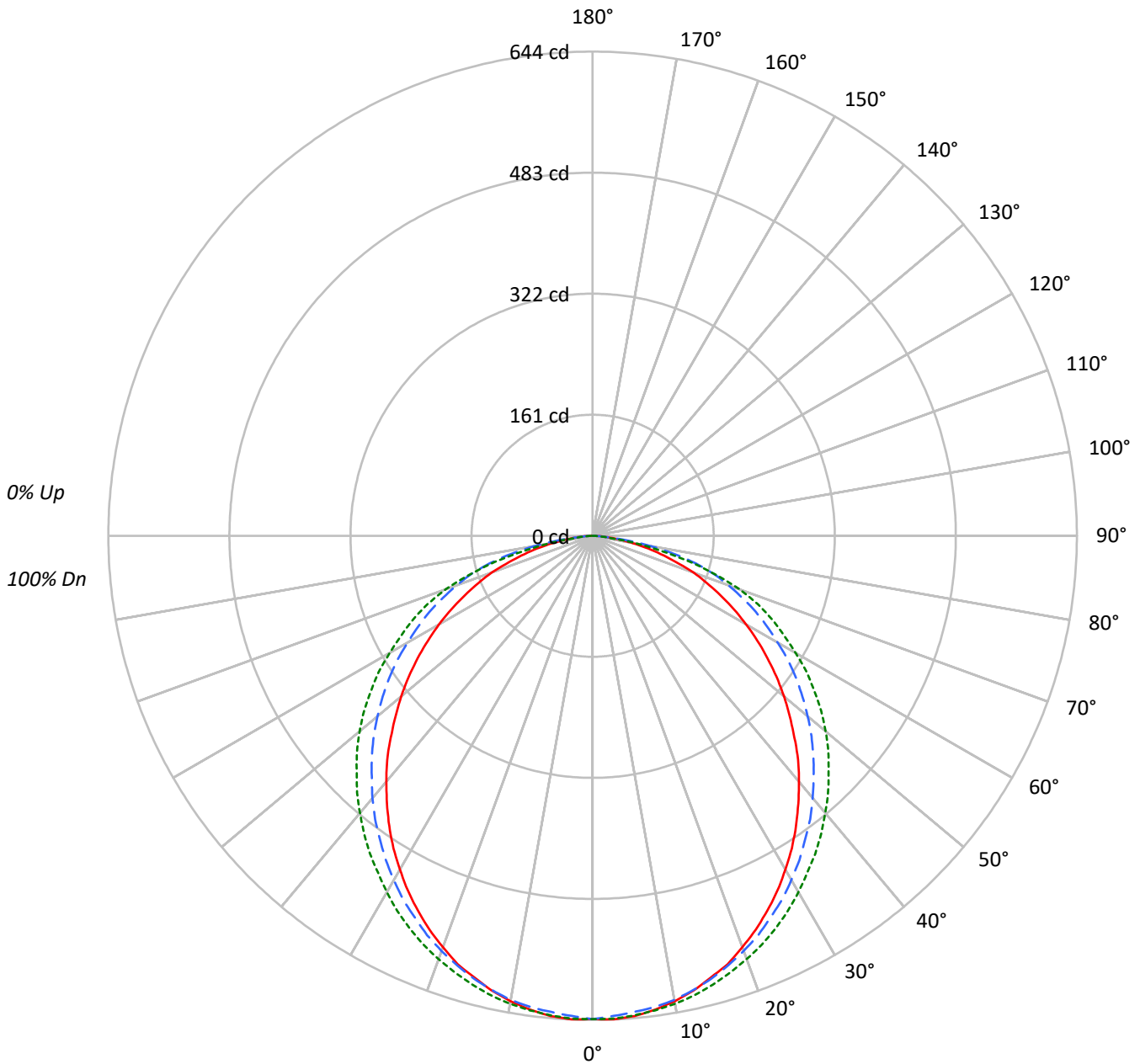
Lumens per Lamp: N/A
Luminaire Lumens: 1801.0 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1815	1815	1815
5°	1817	1802	1814
10°	1802	1797	1812
15°	1777	1782	1806
20°	1749	1765	1800
25°	1713	1744	1794
30°	1670	1723	1784
35°	1625	1698	1778
40°	1573	1678	1773
45°	1515	1657	1772
50°	1459	1639	1776
55°	1397	1626	1771
60°	1331	1603	1759
65°	1252	1598	1760
70°	1179	1585	1709
75°	1023	1549	1460
80°	827	1248	974
85°	551	431	291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	3.4
10°-20°	172.8	9.6
20°-30°	259.1	14.4
30°-40°	309.1	17.2
40°-50°	319.6	17.7
50°-60°	291.8	16.2
60°-70°	229.6	12.7
70°-80°	133.7	7.4
80°-90°	24.6	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°	492.6	27.4
0°-40°	801.7	44.5
0°-60°	1413.1	78.5
0°-90°	1801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1801.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	643	643	643	643	643	
5°	641	639	636	641	640	61
15°	608	609	610	618	618	172
25°	550	553	560	573	576	253
35°	472	478	493	512	516	295
45°	380	392	415	438	444	293
55°	284	299	330	354	360	254
65°	188	207	239	258	264	186
75°	94	116	142	139	134	100
85°	17	24	13	11	9	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	642.9	642.9	642.9	642.9	642.9
2.5°	643.8	642.1	639.3	643.8	642.9
5°	641.2	639.3	635.8	641.2	640.2
7.5°	635.8	634.0	632.2	637.6	636.7
10°	628.6	627.7	626.8	633.1	632.2
12.5°	619.7	619.7	618.9	626.0	626.0
15°	608.1	609.0	609.9	617.9	617.9
17.5°	597.4	596.5	599.2	608.1	609.0
20°	582.2	584.0	587.6	598.3	599.2
22.5°	567.0	568.9	575.1	585.8	588.4
25°	550.0	552.8	559.9	573.2	576.0
27.5°	532.2	535.8	545.6	559.9	562.5
30°	512.5	517.9	528.6	544.7	547.4
32.5°	492.9	498.3	511.6	527.7	531.3
35°	471.5	477.7	492.9	511.6	516.1
37.5°	449.2	457.1	475.1	493.8	499.2
40°	426.8	435.8	455.4	475.1	481.3
42.5°	404.5	413.5	434.8	457.1	463.5
45°	379.5	392.0	415.2	438.4	443.8
47.5°	355.4	368.8	394.7	417.9	425.1
50°	332.2	345.5	373.2	397.4	404.5
52.5°	308.1	322.3	351.8	376.8	383.1
55°	283.9	299.1	330.4	354.5	359.9
57.5°	259.9	275.9	308.1	331.3	337.6
60°	235.8	252.8	283.9	307.1	311.6
62.5°	211.6	229.4	261.6	282.2	286.7
65°	187.5	207.1	239.3	258.1	263.5
67.5°	164.3	183.9	215.2	233.1	237.5
70°	142.9	160.7	192.0	205.4	207.1
72.5°	116.1	138.4	168.7	175.9	171.5
75°	93.8	116.1	142.0	139.3	133.9
77.5°	71.4	93.8	110.7	101.8	94.6
80°	50.9	73.2	76.8	63.4	59.9
82.5°	33.0	50.9	42.9	33.0	26.8
85°	17.0	24.1	13.3	10.7	9.0
87.5°	5.4	3.6	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)