

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: P732422

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275502)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-20-B2750-W2D-CP187-3000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RIBBED LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

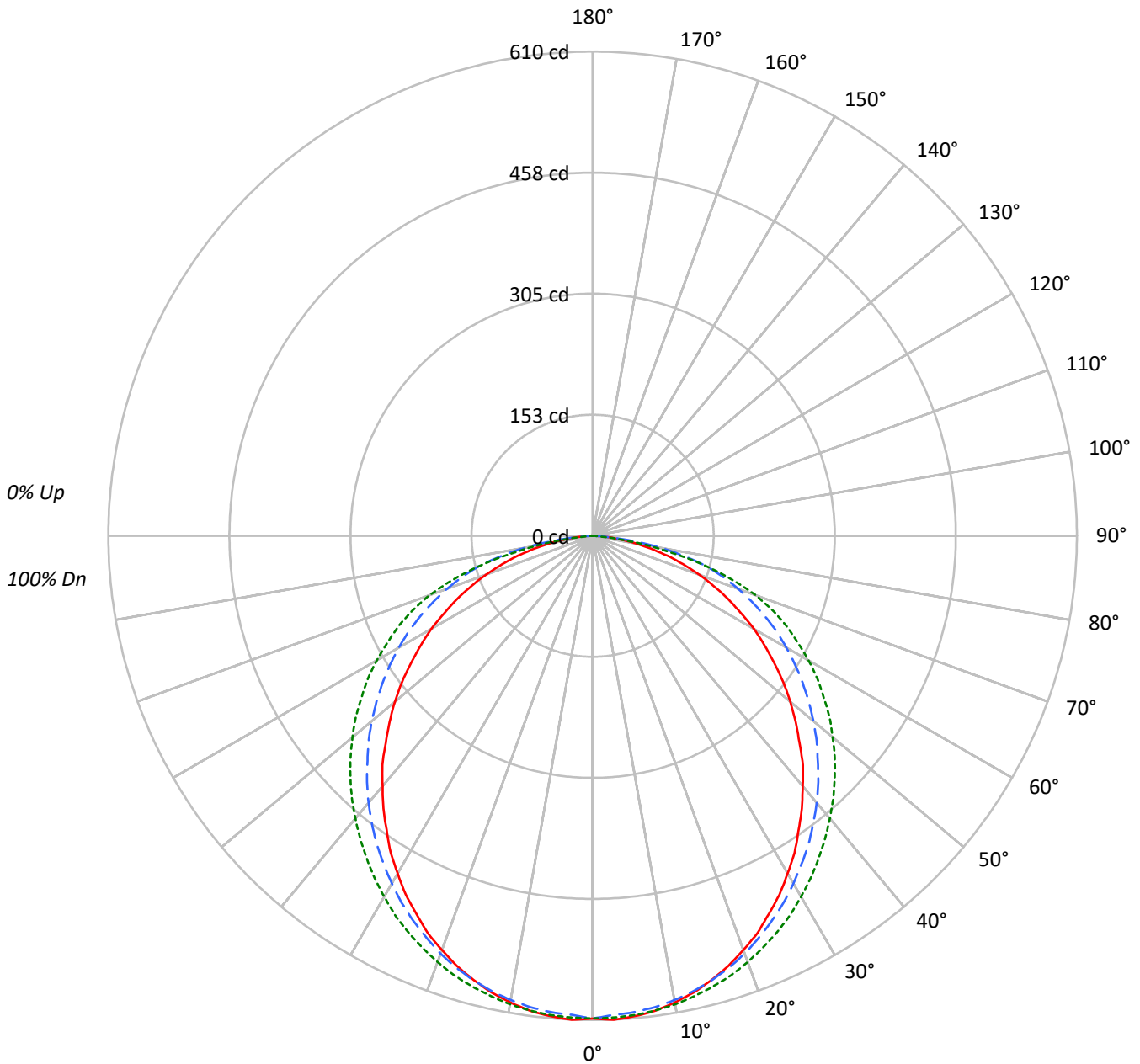
Lumens per Lamp: N/A
Luminaire Lumens: 1765.0 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83																			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32																			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1716	1716	1716
5°	1722	1707	1717
10°	1711	1702	1718
15°	1693	1694	1717
20°	1668	1682	1716
25°	1636	1666	1715
30°	1601	1649	1711
35°	1559	1634	1710
40°	1517	1618	1713
45°	1471	1601	1722
50°	1427	1594	1733
55°	1373	1589	1749
60°	1324	1591	1773
65°	1256	1596	1801
70°	1179	1608	1799
75°	1068	1623	1627
80°	878	1400	1157
85°	648	664	266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	3.3
10°-20°	164.4	9.3
20°-30°	247.6	14.0
30°-40°	297.1	16.8
40°-50°	309.7	17.5
50°-60°	286.7	16.2
60°-70°	231.6	13.1
70°-80°	141.2	8.0
80°-90°	29.2	1.7
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°	469.5	26.6
0°-40°	766.6	43.4
0°-60°	1363.0	77.2
0°-90°	1765.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1765.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	608	608	608	608	608	
5°	608	606	602	607	606	58
15°	579	580	580	588	588	163
25°	525	528	535	548	551	242
35°	452	459	474	492	496	283
45°	368	379	401	423	431	285
55°	279	294	323	348	355	250
65°	188	207	239	263	270	186
75°	98	120	149	151	149	103
85°	20	30	20	11	8	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	608.1	608.1	608.1	608.1	608.1
2.5°	610.4	608.5	604.2	608.5	607.6
5°	607.6	606.1	602.5	606.9	606.1
7.5°	603.7	602.1	599.0	604.2	603.3
10°	597.0	596.2	593.9	599.8	599.4
12.5°	589.2	588.8	587.6	594.3	593.9
15°	579.3	579.7	579.7	587.6	587.6
17.5°	568.3	569.1	570.7	579.3	580.5
20°	555.3	556.9	560.1	569.9	571.4
22.5°	542.0	543.2	547.8	559.6	561.3
25°	525.4	528.5	534.8	548.2	550.6
27.5°	509.7	512.4	521.1	534.8	538.8
30°	491.1	495.5	505.8	520.7	525.1
32.5°	473.5	478.1	490.0	507.3	511.2
35°	452.3	459.3	474.2	491.6	496.2
37.5°	433.0	439.6	456.6	475.4	481.0
40°	411.6	420.0	439.2	459.3	464.8
42.5°	392.0	399.8	420.7	441.2	448.7
45°	368.4	379.4	401.0	423.4	431.3
47.5°	346.7	357.8	382.6	406.5	413.7
50°	325.0	336.9	362.9	387.7	394.7
52.5°	302.6	315.3	343.1	368.0	376.3
55°	279.0	293.6	322.8	347.9	355.4
57.5°	256.6	271.5	302.6	328.2	335.7
60°	234.6	250.0	281.8	306.2	314.1
62.5°	210.2	228.3	261.3	285.3	291.2
65°	188.1	206.6	238.9	262.9	269.6
67.5°	164.9	185.0	217.2	239.2	245.6
70°	142.9	163.7	194.8	215.3	218.0
72.5°	119.3	140.5	172.0	185.0	185.0
75°	97.9	119.6	148.8	151.1	149.2
77.5°	74.8	98.8	117.7	112.9	108.2
80°	54.0	77.6	86.1	77.6	71.2
82.5°	36.2	56.2	51.9	41.3	36.6
85°	20.0	29.9	20.5	11.4	8.2
87.5°	7.5	6.7	2.0	2.0	2.0
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)