

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: P732424

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

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732424
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-CP187-4000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RIBBED LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

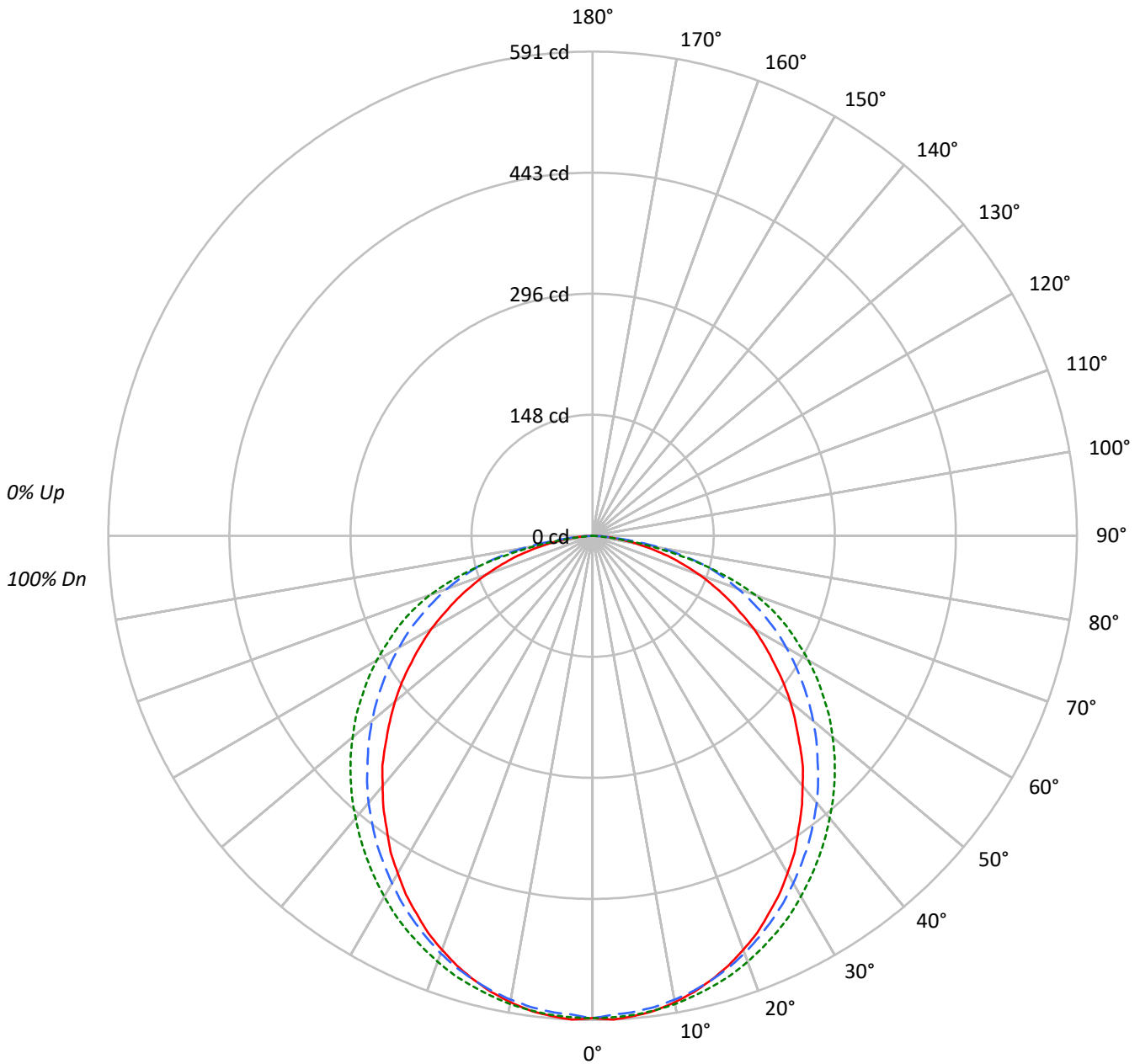
Lumens per Lamp: N/A
Luminaire Lumens: 1709.0 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1662	1662	1662
5°	1667	1653	1663
10°	1657	1648	1664
15°	1639	1640	1662
20°	1615	1629	1662
25°	1584	1613	1661
30°	1550	1596	1657
35°	1509	1582	1656
40°	1469	1567	1659
45°	1424	1550	1667
50°	1382	1543	1678
55°	1329	1538	1693
60°	1282	1541	1717
65°	1216	1545	1743
70°	1142	1557	1742
75°	1034	1570	1576
80°	849	1356	1120
85°	628	641	259



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	3.3
10°-20°	159.1	9.3
20°-30°	239.7	14.0
30°-40°	287.7	16.8
40°-50°	299.9	17.5
50°-60°	277.6	16.2
60°-70°	224.3	13.1
70°-80°	136.7	8.0
80°-90°	28.2	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°	454.6	26.6
0°-40°	742.3	43.4
0°-60°	1319.7	77.2
0°-90°	1709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1709.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	589	589	589	589	589	
5°	588	587	583	588	587	56
15°	561	561	561	569	569	158
25°	509	512	518	531	533	234
35°	438	445	459	476	480	274
45°	357	367	388	410	418	276
55°	270	284	312	337	344	242
65°	182	200	231	254	261	180
75°	95	116	144	146	144	100
85°	19	29	20	11	8	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	588.8	588.8	588.8	588.8	588.8
2.5°	591.1	589.2	585.0	589.2	588.3
5°	588.3	586.9	583.4	587.6	586.9
7.5°	584.6	583.0	580.0	585.0	584.1
10°	578.1	577.3	575.0	580.8	580.4
12.5°	570.5	570.1	568.9	575.4	575.0
15°	561.0	561.3	561.3	568.9	568.9
17.5°	550.3	551.0	552.6	561.0	562.1
20°	537.7	539.2	542.3	551.8	553.3
22.5°	524.8	525.9	530.4	541.9	543.4
25°	508.7	511.8	517.8	530.9	533.2
27.5°	493.5	496.1	504.5	517.8	521.7
30°	475.6	479.8	489.7	504.2	508.4
32.5°	458.5	463.0	474.4	491.2	495.0
35°	437.9	444.7	459.2	476.0	480.5
37.5°	419.2	425.6	442.1	460.4	465.7
40°	398.6	406.6	425.3	444.7	450.1
42.5°	379.6	387.1	407.4	427.2	434.4
45°	356.7	367.4	388.3	410.0	417.7
47.5°	335.7	346.4	370.4	393.6	400.6
50°	314.7	326.2	351.3	375.4	382.2
52.5°	293.0	305.3	332.3	356.3	364.4
55°	270.1	284.3	312.5	336.9	344.1
57.5°	248.4	262.9	293.0	317.8	325.0
60°	227.1	242.0	272.9	296.5	304.1
62.5°	203.5	221.0	253.0	276.2	282.0
65°	182.1	200.1	231.3	254.5	261.0
67.5°	159.7	179.1	210.3	231.6	237.8
70°	138.4	158.5	188.6	208.5	211.1
72.5°	115.5	136.1	166.5	179.1	179.1
75°	94.8	115.8	144.0	146.4	144.5
77.5°	72.4	95.7	113.9	109.3	104.8
80°	52.2	75.1	83.4	75.1	68.9
82.5°	35.0	54.4	50.3	40.0	35.5
85°	19.4	29.0	19.8	11.0	8.0
87.5°	7.2	6.5	1.9	1.9	1.9
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)