

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: P732420

Luminaire Tested: **14FCZ2-20-B2750-W2D-CA125-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732420
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-CA125-5000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RIBBED LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

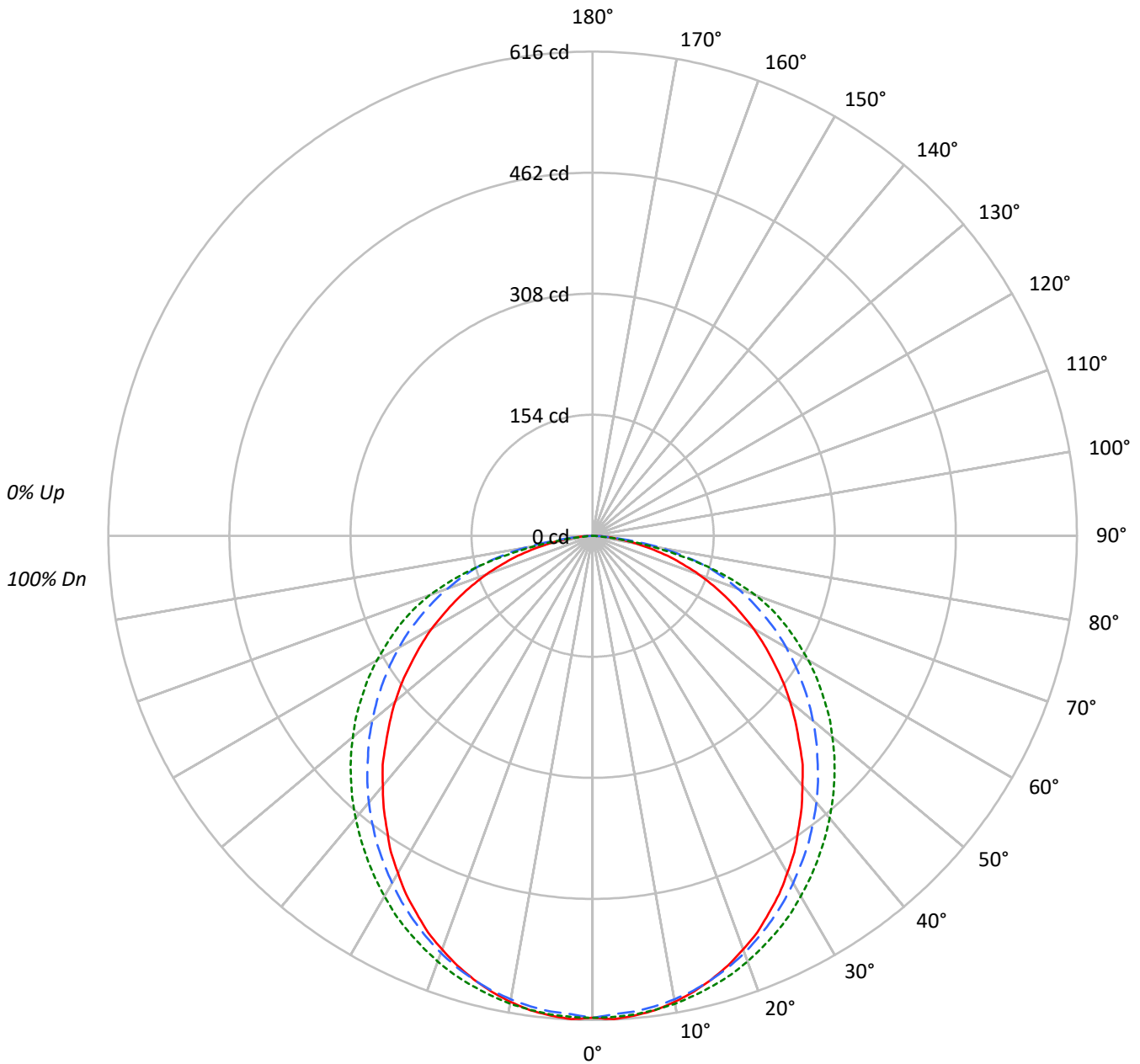
Lumens per Lamp: N/A
Luminaire Lumens: 1780.0 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P732420

CATALOG NUMBER: 14FCZ2-20-B2750-W2D-CA125-5000K

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°	1731	1731	1731
5°	1736	1722	1732
10°	1726	1717	1733
15°	1707	1708	1732
20°	1682	1697	1731
25°	1650	1680	1729
30°	1614	1663	1726
35°	1572	1648	1725
40°	1530	1632	1727
45°	1483	1614	1736
50°	1439	1607	1748
55°	1385	1602	1764
60°	1336	1604	1788
65°	1267	1609	1816
70°	1189	1622	1815
75°	1078	1636	1641
80°	884	1413	1167
85°	654	670	269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.0	3.3
10°-20°	165.8	9.3
20°-30°	249.7	14.0
30°-40°	299.7	16.8
40°-50°	312.3	17.5
50°-60°	289.1	16.2
60°-70°	233.6	13.1
70°-80°	142.4	8.0
80°-90°	29.4	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°	473.5	26.6
0°-40°	773.1	43.4
0°-60°	1374.6	77.2
0°-90°	1780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1780.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	613	613	613	613	613	
5°	613	611	608	612	611	58
15°	584	585	585	593	593	165
25°	530	533	539	553	555	244
35°	456	463	478	496	500	286
45°	372	383	404	427	435	287
55°	281	296	326	351	358	252
65°	190	208	241	265	272	188
75°	99	121	150	152	150	104
85°	20	30	21	12	8	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	613.2	613.2	613.2	613.2	613.2
2.5°	615.6	613.7	609.3	613.7	612.8
5°	612.8	611.3	607.7	612.0	611.3
7.5°	608.9	607.2	604.0	609.3	608.4
10°	602.1	601.3	598.9	604.9	604.5
12.5°	594.2	593.8	592.6	599.3	598.9
15°	584.3	584.6	584.6	592.6	592.6
17.5°	573.1	573.9	575.5	584.3	585.5
20°	560.0	561.6	564.8	574.8	576.3
22.5°	546.6	547.8	552.5	564.4	566.0
25°	529.9	533.0	539.4	552.9	555.3
27.5°	514.0	516.7	525.5	539.4	543.4
30°	495.3	499.7	510.1	525.2	529.5
32.5°	477.5	482.2	494.1	511.6	515.5
35°	456.1	463.2	478.3	495.8	500.5
37.5°	436.6	443.3	460.5	479.5	485.1
40°	415.1	423.5	443.0	463.2	468.8
42.5°	395.3	403.2	424.3	444.9	452.5
45°	371.5	382.7	404.4	427.0	435.0
47.5°	349.7	360.8	385.8	410.0	417.2
50°	327.8	339.7	365.9	391.0	398.1
52.5°	305.2	318.0	346.1	371.1	379.5
55°	281.4	296.1	325.5	350.9	358.4
57.5°	258.8	273.8	305.2	331.0	338.5
60°	236.6	252.1	284.2	308.8	316.8
62.5°	212.0	230.2	263.6	287.7	293.7
65°	189.7	208.4	240.9	265.1	271.9
67.5°	166.3	186.5	219.1	241.3	247.7
70°	144.1	165.1	196.5	217.1	219.9
72.5°	120.3	141.7	173.4	186.5	186.5
75°	98.8	120.6	150.0	152.4	150.5
77.5°	75.4	99.7	118.7	113.9	109.2
80°	54.4	78.2	86.9	78.2	71.8
82.5°	36.5	56.7	52.3	41.6	36.9
85°	20.2	30.2	20.7	11.5	8.3
87.5°	7.5	6.8	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)