

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: P732505

Luminaire Tested: **14FCZ2-20-S-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732505
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-CP250-5000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND SMOOTH LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

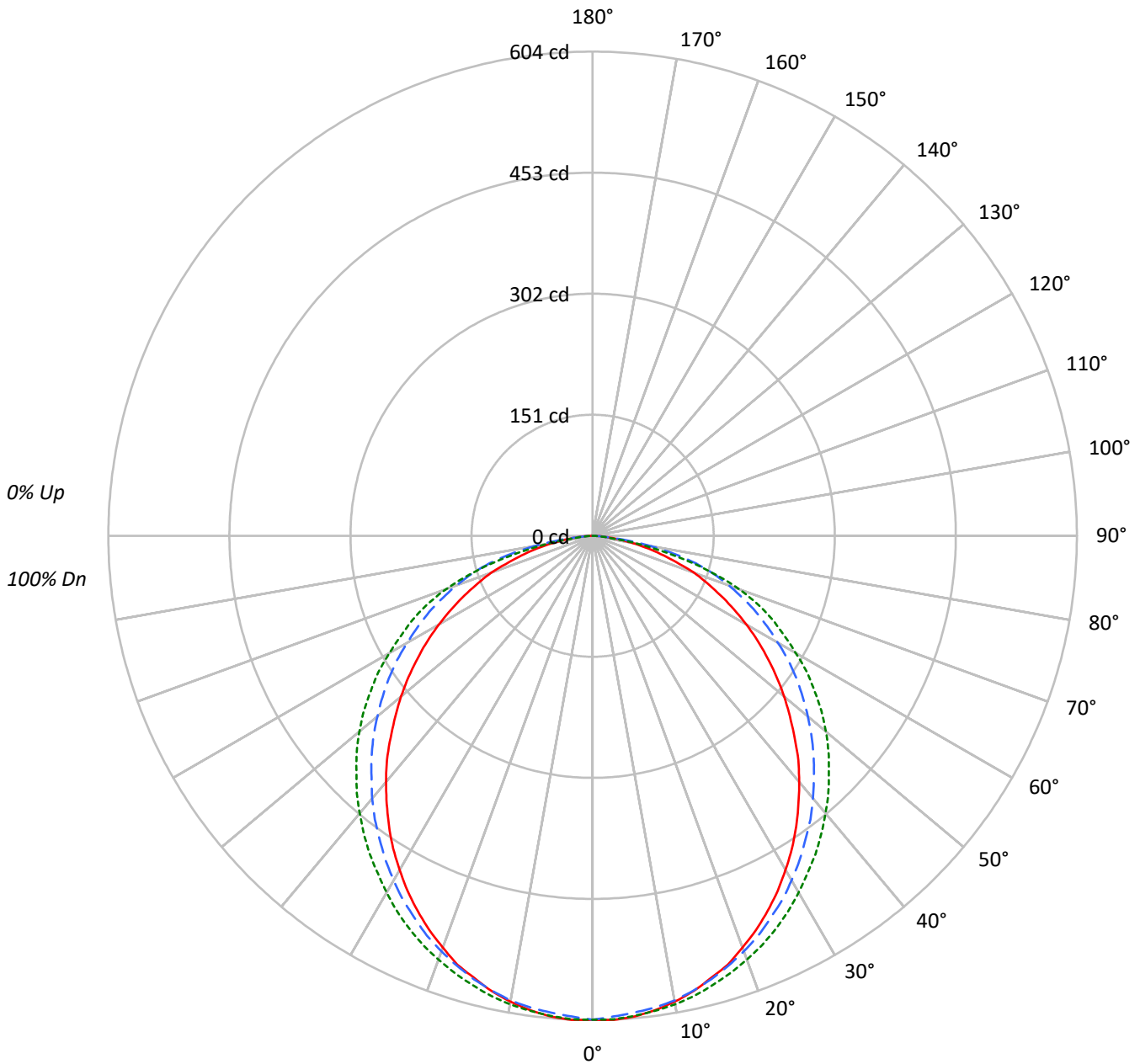
Lumens per Lamp: N/A
Luminaire Lumens: 1691.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P732505

CATALOG NUMBER: 14FCZ2-20-S-B2750-W2D-CP250-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P732505

CATALOG NUMBER: 14FCZ2-20-S-B2750-W2D-CP250-5000K

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°	1704	1704	1704
5°	1706	1692	1703
10°	1692	1687	1701
15°	1669	1673	1695
20°	1642	1657	1690
25°	1608	1637	1684
30°	1568	1618	1675
35°	1525	1595	1670
40°	1477	1576	1665
45°	1422	1556	1663
50°	1370	1539	1668
55°	1312	1527	1663
60°	1250	1505	1652
65°	1176	1501	1652
70°	1108	1488	1605
75°	960	1454	1371
80°	777	1172	914
85°	515	405	272



TEST NUMBER: P732505

CATALOG NUMBER: 14FCZ2-20-S-B2750-W2D-CP250-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.0	3.4
10°-20°	162.2	9.6
20°-30°	243.3	14.4
30°-40°	290.2	17.2
40°-50°	300.1	17.7
50°-60°	274.0	16.2
60°-70°	215.6	12.7
70°-80°	125.5	7.4
80°-90°	23.1	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°	462.5	27.4
0°-40°	752.8	44.5
0°-60°	1326.8	78.5
0°-90°	1691.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1691.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	604	604	604	604	604	
5°	602	600	597	602	601	57
15°	571	572	573	580	580	161
25°	516	519	526	538	541	238
35°	443	448	463	480	485	277
45°	356	368	390	412	417	275
55°	267	281	310	333	338	238
65°	176	194	225	242	247	175
75°	88	109	133	131	126	94
85°	16	23	12	10	8	21
90°	0	0	0	0	0	



TEST NUMBER: P732505

CATALOG NUMBER: 14FCZ2-20-S-B2750-W2D-CP250-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	603.7	603.7	603.7	603.7	603.7
2.5°	604.5	602.8	600.3	604.5	603.7
5°	602.0	600.3	597.0	602.0	601.1
7.5°	597.0	595.2	593.6	598.6	597.8
10°	590.2	589.4	588.6	594.4	593.6
12.5°	581.9	581.9	581.1	587.7	587.7
15°	571.0	571.8	572.6	580.1	580.1
17.5°	560.9	560.1	562.6	571.0	571.8
20°	546.6	548.3	551.7	561.7	562.6
22.5°	532.4	534.1	540.0	550.0	552.5
25°	516.4	519.0	525.7	538.2	540.8
27.5°	499.7	503.1	512.2	525.7	528.2
30°	481.2	486.2	496.3	511.4	514.0
32.5°	462.8	467.8	480.4	495.5	498.9
35°	442.7	448.5	462.8	480.4	484.6
37.5°	421.7	429.2	446.1	463.6	468.7
40°	400.8	409.2	427.6	446.1	451.9
42.5°	379.8	388.2	408.3	429.2	435.2
45°	356.3	368.1	389.9	411.7	416.7
47.5°	333.7	346.3	370.6	392.3	399.1
50°	311.9	324.4	350.4	373.1	379.8
52.5°	289.3	302.7	330.3	353.8	359.7
55°	266.6	280.9	310.3	332.9	337.9
57.5°	244.0	259.1	289.3	311.1	316.9
60°	221.4	237.3	266.6	288.4	292.6
62.5°	198.7	215.4	245.6	265.0	269.2
65°	176.1	194.5	224.7	242.3	247.4
67.5°	154.3	172.7	202.1	218.8	223.0
70°	134.2	150.9	180.3	192.8	194.5
72.5°	109.0	130.0	158.4	165.2	161.0
75°	88.0	109.0	133.3	130.8	125.7
77.5°	67.1	88.0	104.0	95.5	88.9
80°	47.8	68.7	72.1	59.5	56.2
82.5°	31.0	47.8	40.3	31.0	25.2
85°	15.9	22.6	12.5	10.1	8.4
87.5°	5.0	3.4	1.6	1.6	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)