

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: P732430

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732430
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-CP250-5000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RIBBED LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

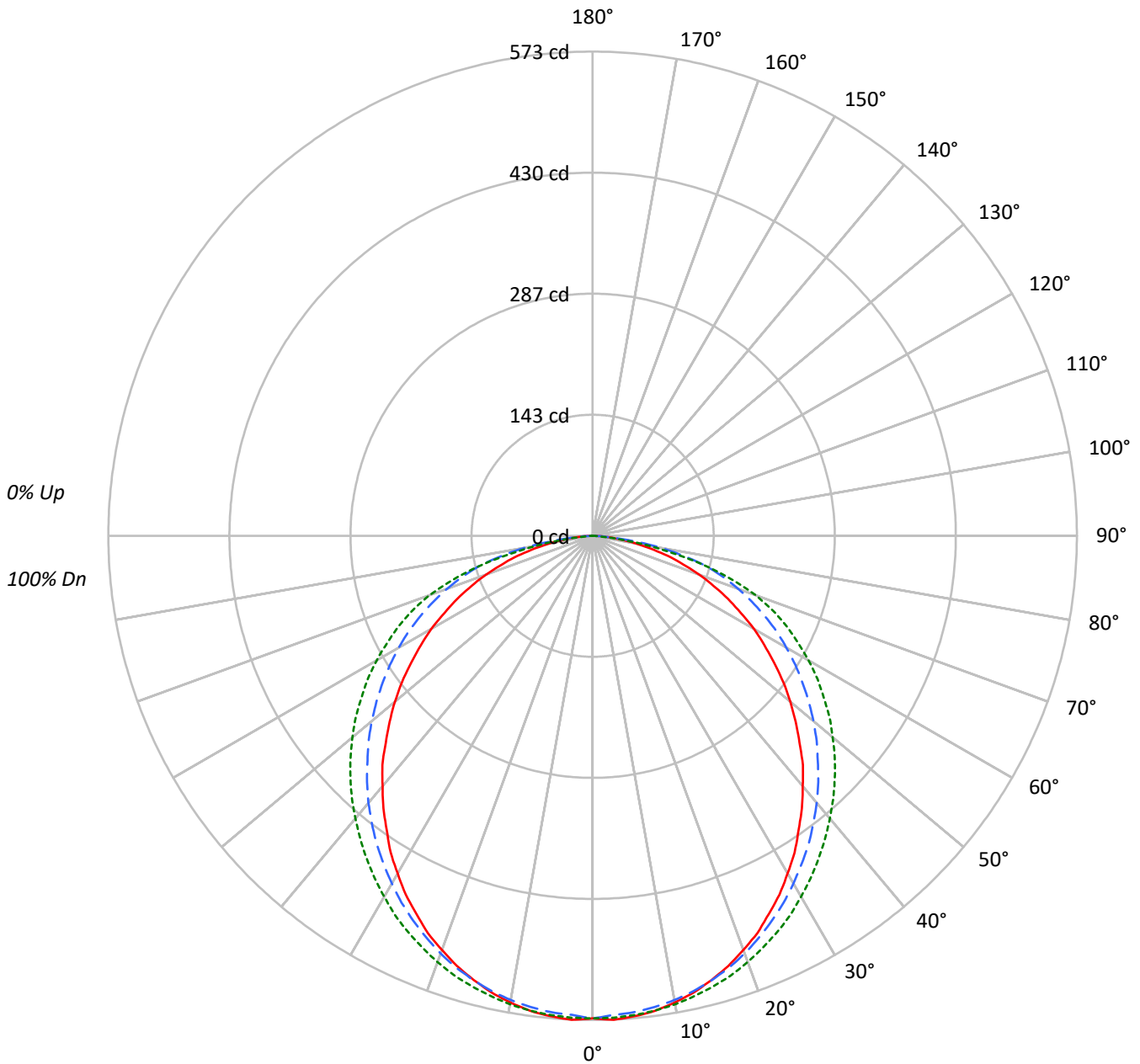
Lumens per Lamp: N/A
Luminaire Lumens: 1658.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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: P732430

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

Luminous Intensity Polar Plot





TEST NUMBER: P732430

CATALOG NUMBER: 14FCZ2-20-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	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	90	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°	1612	1612	1612
5°	1617	1604	1613
10°	1607	1599	1614
15°	1590	1591	1613
20°	1567	1580	1612
25°	1537	1565	1611
30°	1504	1549	1608
35°	1464	1535	1606
40°	1425	1520	1609
45°	1382	1504	1618
50°	1341	1497	1628
55°	1290	1492	1643
60°	1244	1494	1666
65°	1180	1499	1691
70°	1108	1510	1690
75°	1003	1524	1529
80°	824	1315	1087
85°	609	622	249



TEST NUMBER: P732430

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	3.3
10°-20°	154.4	9.3
20°-30°	232.6	14.0
30°-40°	279.1	16.8
40°-50°	290.9	17.5
50°-60°	269.3	16.2
60°-70°	217.6	13.1
70°-80°	132.7	8.0
80°-90°	27.4	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°	441.0	26.6
0°-40°	720.1	43.4
0°-60°	1280.4	77.2
0°-90°	1658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1658.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	571	571	571	571	571	
5°	571	569	566	570	569	54
15°	544	544	544	552	552	153
25°	494	496	502	515	517	227
35°	425	431	446	462	466	266
45°	346	356	377	398	405	267
55°	262	276	303	327	334	235
65°	177	194	224	247	253	175
75°	92	112	140	142	140	97
85°	19	28	19	11	8	23
90°	0	0	0	0	0	



TEST NUMBER: P732430

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	571.2	571.2	571.2	571.2	571.2
2.5°	573.4	571.6	567.5	571.6	570.8
5°	570.8	569.4	566.0	570.1	569.4
7.5°	567.1	565.6	562.6	567.5	566.7
10°	560.8	560.1	557.9	563.5	563.1
12.5°	553.5	553.1	552.0	558.3	557.9
15°	544.2	544.5	544.5	552.0	552.0
17.5°	533.8	534.6	536.1	544.2	545.3
20°	521.6	523.2	526.1	535.4	536.8
22.5°	509.1	510.2	514.6	525.7	527.2
25°	493.5	496.5	502.4	515.0	517.3
27.5°	478.8	481.3	489.5	502.4	506.2
30°	461.4	465.4	475.1	489.2	493.2
32.5°	444.8	449.2	460.3	476.5	480.2
35°	424.8	431.4	445.5	461.8	466.2
37.5°	406.7	412.9	428.9	446.6	451.8
40°	386.7	394.5	412.6	431.4	436.6
42.5°	368.2	375.6	395.2	414.5	421.5
45°	346.1	356.4	376.7	397.8	405.2
47.5°	325.7	336.1	359.4	381.9	388.6
50°	305.3	316.4	340.9	364.2	370.8
52.5°	284.3	296.2	322.3	345.6	353.5
55°	262.1	275.8	303.2	326.8	333.8
57.5°	241.0	255.1	284.3	308.3	315.3
60°	220.4	234.8	264.7	287.6	295.1
62.5°	197.5	214.5	245.5	268.0	273.6
65°	176.7	194.1	224.4	246.9	253.2
67.5°	154.9	173.7	204.1	224.7	230.7
70°	134.2	153.8	183.0	202.2	204.8
72.5°	112.1	132.0	161.5	173.7	173.7
75°	92.0	112.4	139.7	142.0	140.2
77.5°	70.2	92.8	110.5	106.1	101.7
80°	50.7	72.9	80.9	72.9	66.9
82.5°	34.0	52.8	48.8	38.8	34.4
85°	18.8	28.1	19.2	10.7	7.7
87.5°	7.0	6.3	1.8	1.8	1.8
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)