

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: P732576

Luminaire Tested: **14FCZ2-25-HRP-B2750-W2D-CP250-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294787)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-HRP-B2750-W2D-CP250-2700K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND HRP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

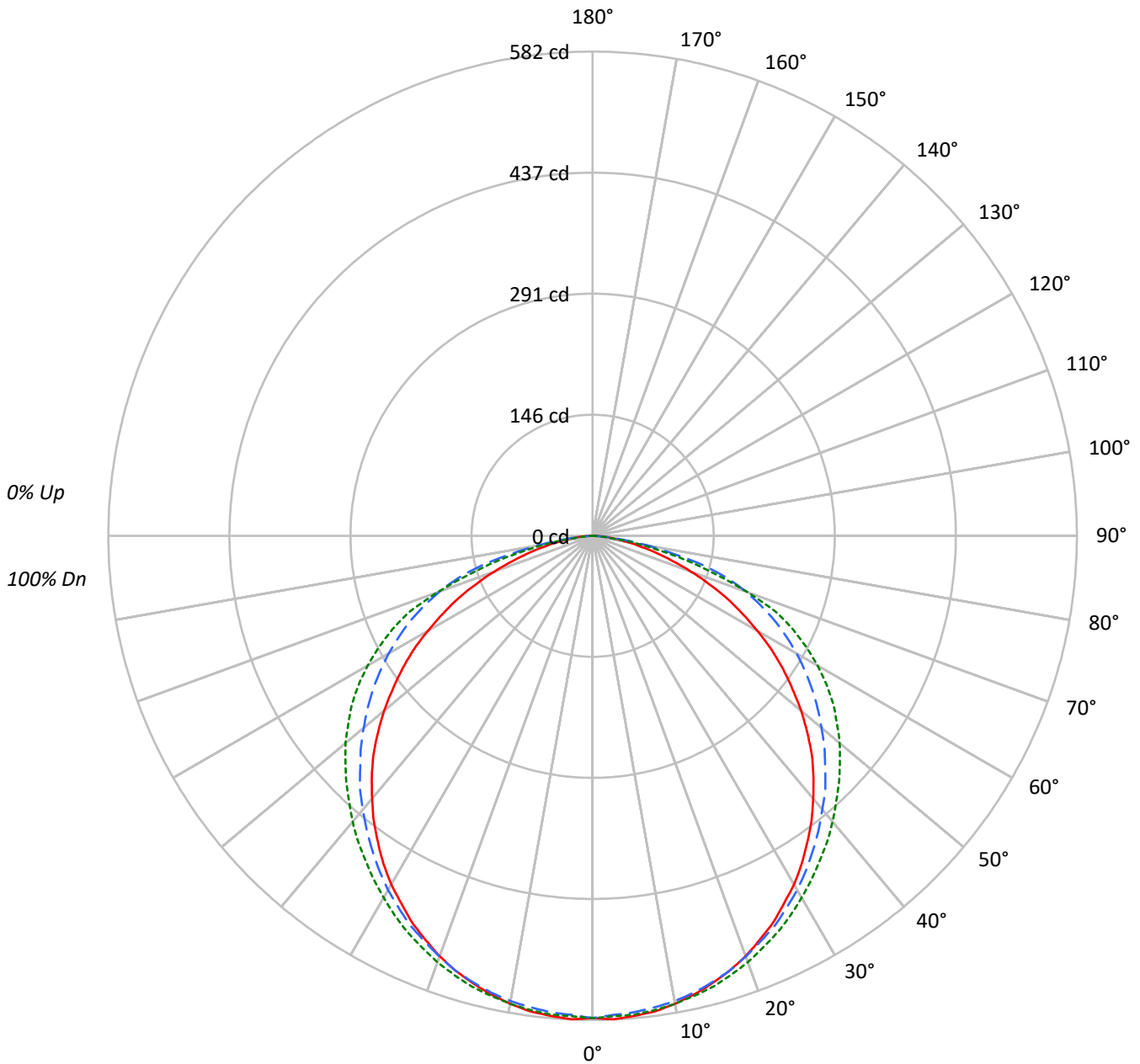
Lumens per Lamp: N/A
Luminaire Lumens: 1707.0 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
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: P732576

CATALOG NUMBER: 14FCZ2-25-HRP-B2750-W2D-CP250-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P732576

CATALOG NUMBER: 14FCZ2-25-HRP-B2750-W2D-CP250-2700K

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	93	91	88	90	88	86	84																			
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37																			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33																			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	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	38	31	26	37	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1636	1636	1636
5°	1641	1629	1637
10°	1637	1628	1637
15°	1627	1624	1639
20°	1615	1617	1638
25°	1598	1611	1638
30°	1578	1602	1637
35°	1550	1591	1641
40°	1519	1582	1653
45°	1487	1577	1671
50°	1435	1576	1702
55°	1374	1585	1738
60°	1291	1597	1761
65°	1190	1613	1771
70°	1037	1617	1630
75°	855	1505	1317
80°	671	1083	881
85°	525	418	207



TEST NUMBER: P732576

CATALOG NUMBER: 14FCZ2-25-HRP-B2750-W2D-CP250-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.9	3.2
10°-20°	157.5	9.2
20°-30°	239.1	14.0
30°-40°	289.8	17.0
40°-50°	305.4	17.9
50°-60°	285.1	16.7
60°-70°	227.8	13.3
70°-80°	125.4	7.3
80°-90°	22.1	1.3
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°	451.5	26.4
0°-40°	741.3	43.4
0°-60°	1331.7	78.0
0°-90°	1707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1707.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	580	580	580	580	580	
5°	579	578	575	579	578	55
15°	557	557	556	561	561	157
25°	513	514	517	525	526	236
35°	450	454	462	473	476	281
45°	372	380	395	413	419	287
55°	279	293	322	345	353	249
65°	178	201	242	261	265	175
75°	78	112	138	124	121	84
85°	16	20	13	8	6	20
90°	0	0	0	0	0	



TEST NUMBER: P732576

CATALOG NUMBER: 14FCZ2-25-HRP-B2750-W2D-CP250-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	579.6	579.6	579.6	579.6	579.6
2.5°	581.8	580.2	576.5	579.6	578.1
5°	579.2	577.6	574.9	578.7	577.6
7.5°	576.5	574.3	571.6	576.0	574.9
10°	571.1	569.4	568.0	571.6	571.1
12.5°	564.7	564.2	562.5	566.9	566.3
15°	556.7	556.7	555.6	560.9	560.9
17.5°	548.0	547.4	548.0	554.0	553.4
20°	537.8	537.8	538.3	545.4	545.4
22.5°	525.4	526.0	527.6	536.2	535.6
25°	513.2	514.2	517.4	524.9	526.0
27.5°	498.1	500.8	504.5	513.6	514.7
30°	484.1	485.8	491.6	500.3	502.3
32.5°	467.6	470.7	477.2	486.9	489.6
35°	449.8	454.1	461.6	473.4	476.1
37.5°	432.1	435.9	446.1	458.3	463.2
40°	412.3	418.7	429.4	443.4	448.7
42.5°	392.9	399.4	413.9	428.3	433.2
45°	372.5	379.5	395.0	412.8	418.7
47.5°	349.9	358.1	377.9	396.7	403.0
50°	326.8	337.0	359.0	380.1	387.6
52.5°	302.8	315.6	340.8	362.8	369.9
55°	279.2	293.0	322.1	344.6	353.2
57.5°	255.0	270.1	302.8	328.5	333.4
60°	228.6	247.0	282.8	305.4	311.9
62.5°	202.9	223.9	262.4	283.9	289.3
65°	178.2	200.8	241.5	261.4	265.2
67.5°	151.3	178.2	218.4	236.8	237.7
70°	125.7	156.8	195.9	204.4	197.5
72.5°	100.4	133.7	169.7	162.6	156.8
75°	78.4	112.2	138.0	124.0	120.8
77.5°	58.0	91.8	98.8	91.3	85.3
80°	41.3	72.4	66.6	56.9	54.2
82.5°	28.4	45.6	36.5	28.4	24.7
85°	16.2	20.4	12.9	8.0	6.4
87.5°	6.9	4.9	2.7	2.2	2.2
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)