

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: P732570

Luminaire Tested: **14FCZ2-25-HRP-B2750-W2D-CA125-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732570
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-CA125-5000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND HRP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

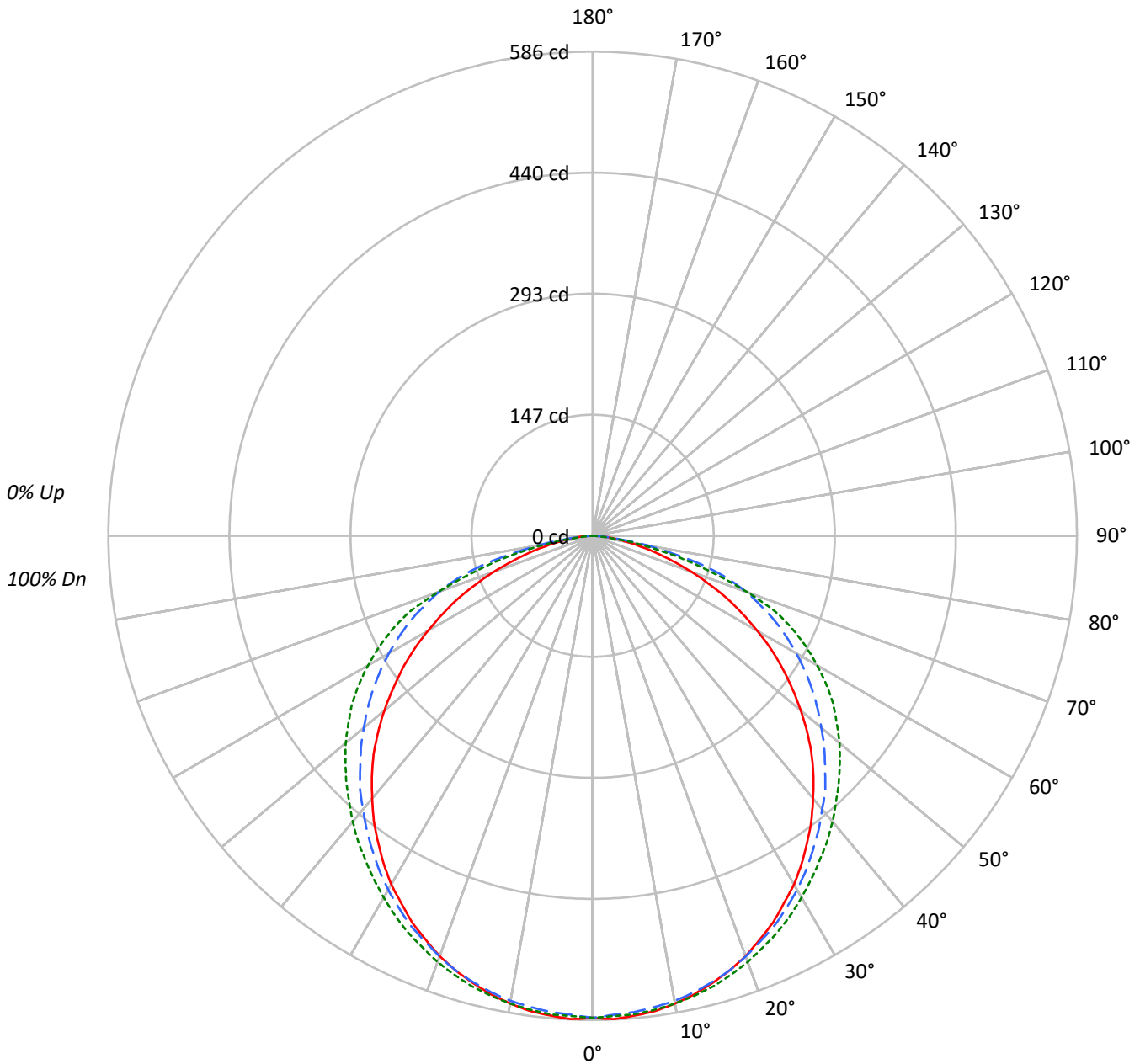
Lumens per Lamp: N/A
Luminaire Lumens: 1718.0 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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: P732570

CATALOG NUMBER: 14FCZ2-25-HRP-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	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°	1647	1647	1647
5°	1652	1639	1647
10°	1648	1638	1648
15°	1637	1634	1650
20°	1626	1627	1649
25°	1609	1622	1649
30°	1588	1613	1648
35°	1560	1601	1651
40°	1529	1593	1664
45°	1497	1587	1682
50°	1444	1587	1713
55°	1383	1595	1749
60°	1299	1607	1772
65°	1198	1624	1783
70°	1044	1627	1641
75°	860	1515	1325
80°	676	1089	888
85°	528	421	207



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.2	3.2
10°-20°	158.5	9.2
20°-30°	240.7	14.0
30°-40°	291.6	17.0
40°-50°	307.3	17.9
50°-60°	286.9	16.7
60°-70°	229.3	13.3
70°-80°	126.2	7.3
80°-90°	22.3	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°	454.4	26.4
0°-40°	746.1	43.4
0°-60°	1340.3	78.0
0°-90°	1718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1718.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	583	583	583	583	583	
5°	583	581	579	582	581	55
15°	560	560	559	564	564	158
25°	516	518	521	528	529	238
35°	453	457	465	476	479	283
45°	375	382	398	416	421	288
55°	281	295	324	347	356	251
65°	179	202	243	263	267	177
75°	79	113	139	125	122	85
85°	16	20	13	8	6	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	583.4	583.4	583.4	583.4	583.4
2.5°	585.6	583.9	580.2	583.4	581.9
5°	583.0	581.3	578.6	582.4	581.3
7.5°	580.2	578.0	575.3	579.7	578.6
10°	574.8	573.1	571.6	575.3	574.8
12.5°	568.3	567.8	566.1	570.5	570.0
15°	560.3	560.3	559.2	564.5	564.5
17.5°	551.5	551.0	551.5	557.5	557.0
20°	541.3	541.3	541.8	548.9	548.9
22.5°	528.8	529.4	531.0	539.6	539.1
25°	516.5	517.5	520.8	528.3	529.4
27.5°	501.3	504.1	507.8	516.9	518.0
30°	487.3	488.9	494.8	503.5	505.6
32.5°	470.6	473.7	480.3	490.0	492.7
35°	452.7	457.0	464.6	476.5	479.2
37.5°	434.9	438.7	449.0	461.3	466.2
40°	414.9	421.4	432.2	446.2	451.6
42.5°	395.4	401.9	416.6	431.1	436.0
45°	374.9	382.0	397.6	415.5	421.4
47.5°	352.2	360.4	380.3	399.2	405.6
50°	328.9	339.2	361.3	382.5	390.1
52.5°	304.7	317.6	343.0	365.2	372.3
55°	281.0	294.9	324.2	346.9	355.5
57.5°	256.6	271.8	304.7	330.6	335.5
60°	230.1	248.6	284.6	307.3	313.9
62.5°	204.3	225.3	264.1	285.7	291.2
65°	179.4	202.1	243.1	263.0	266.9
67.5°	152.3	179.4	219.8	238.3	239.3
70°	126.5	157.8	197.1	205.8	198.8
72.5°	101.0	134.5	170.8	163.7	157.8
75°	78.9	112.9	138.9	124.8	121.5
77.5°	58.4	92.4	99.4	91.9	85.9
80°	41.6	72.9	67.0	57.3	54.6
82.5°	28.6	45.9	36.8	28.6	24.9
85°	16.3	20.5	13.0	8.1	6.4
87.5°	7.0	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)