

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: P732586

Luminaire Tested: **14FCZ2-25-RDP-B2750-W2D-CA08-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275838)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-RDP-B2750-W2D-CA08-2700K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RDP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

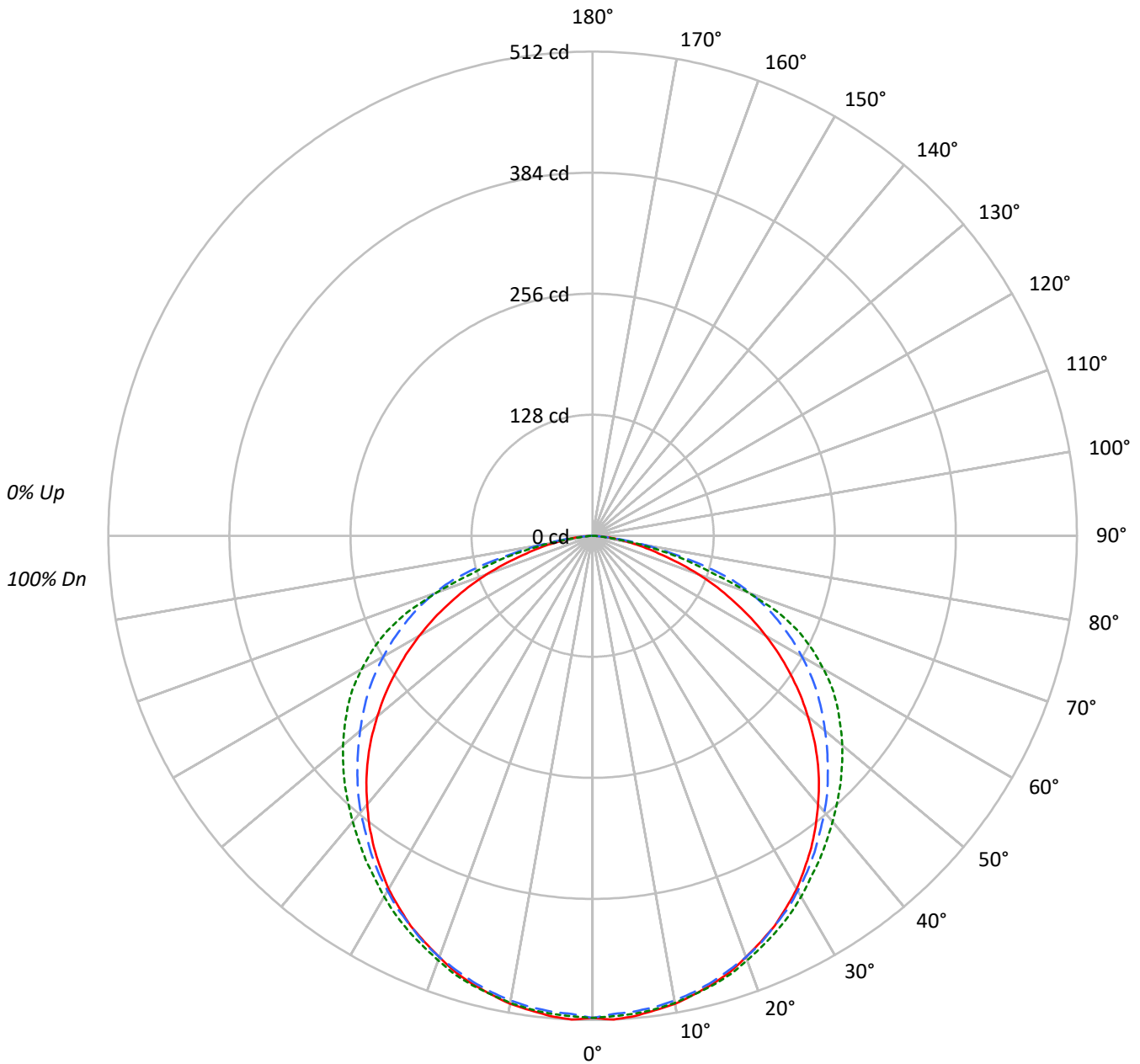
Lumens per Lamp: N/A
Luminaire Lumens: 1522.0 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

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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	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1439	1439	1439
5°	1444	1431	1438
10°	1441	1431	1437
15°	1434	1427	1438
20°	1424	1424	1435
25°	1417	1417	1436
30°	1406	1414	1437
35°	1388	1409	1441
40°	1366	1405	1454
45°	1342	1404	1480
50°	1305	1409	1513
55°	1257	1427	1556
60°	1194	1442	1590
65°	1103	1460	1611
70°	980	1472	1441
75°	791	1322	1153
80°	618	928	753
85°	424	269	194



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	3.2
10°-20°	138.4	9.1
20°-30°	210.8	13.8
30°-40°	256.7	16.9
40°-50°	272.4	17.9
50°-60°	257.1	16.9
60°-70°	207.5	13.6
70°-80°	112.6	7.4
80°-90°	18.2	1.2
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°	397.5	26.1
0°-40°	654.2	43.0
0°-60°	1183.6	77.8
0°-90°	1522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1522.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	510	509	505	509	507	48
15°	491	490	488	492	492	138
25°	455	454	455	460	461	210
35°	403	405	409	417	418	252
45°	336	341	352	365	371	259
55°	256	266	290	309	316	228
65°	165	185	219	236	241	164
75°	72	106	121	109	106	79
85°	13	14	8	7	6	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	509.8	509.8	509.8	509.8	509.8
2.5°	512.1	509.8	506.1	509.8	508.6
5°	509.8	508.6	505.0	508.6	507.4
7.5°	506.1	506.1	502.6	505.0	505.0
10°	502.6	501.5	499.1	502.6	501.5
12.5°	496.7	495.5	494.3	497.8	496.7
15°	490.7	489.5	488.4	492.0	492.0
17.5°	483.5	482.4	481.2	486.0	486.0
20°	474.1	474.1	474.1	478.9	477.7
22.5°	464.6	464.6	465.8	470.6	469.4
25°	455.1	454.0	455.1	459.8	461.0
27.5°	443.2	444.4	445.5	450.3	451.5
30°	431.4	432.6	433.7	439.7	440.9
32.5°	417.1	419.5	421.8	428.9	428.9
35°	402.9	405.2	408.8	417.1	418.3
37.5°	387.4	389.7	394.6	404.0	406.4
40°	370.7	374.3	381.4	390.9	394.6
42.5°	354.1	358.9	367.2	377.8	382.6
45°	336.3	341.0	351.7	364.8	370.7
47.5°	317.2	323.2	336.3	352.9	357.7
50°	297.1	305.4	320.9	338.6	344.6
52.5°	276.9	286.3	305.4	324.4	330.3
55°	255.5	266.1	290.0	308.9	316.1
57.5°	234.1	246.0	273.2	293.5	300.6
60°	211.5	225.8	255.5	275.7	281.7
62.5°	188.9	205.5	237.7	257.8	262.6
65°	165.2	185.4	218.6	236.5	241.2
67.5°	142.6	166.3	199.7	212.6	212.6
70°	118.8	144.9	178.3	181.8	174.6
72.5°	95.1	124.8	154.5	141.4	135.5
75°	72.5	105.7	121.2	109.4	105.7
77.5°	54.6	85.5	85.5	78.4	76.0
80°	38.0	65.4	57.1	50.0	46.3
82.5°	24.9	36.8	29.7	23.7	20.2
85°	13.1	14.3	8.3	7.1	6.0
87.5°	4.8	2.3	1.2	2.3	1.2
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)