

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: P732539

Luminaire Tested: **14FCZ2-25-B2750-W2D-CA08-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732539
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: 14FCZ2-25-B2750-W2D-CA08-4000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

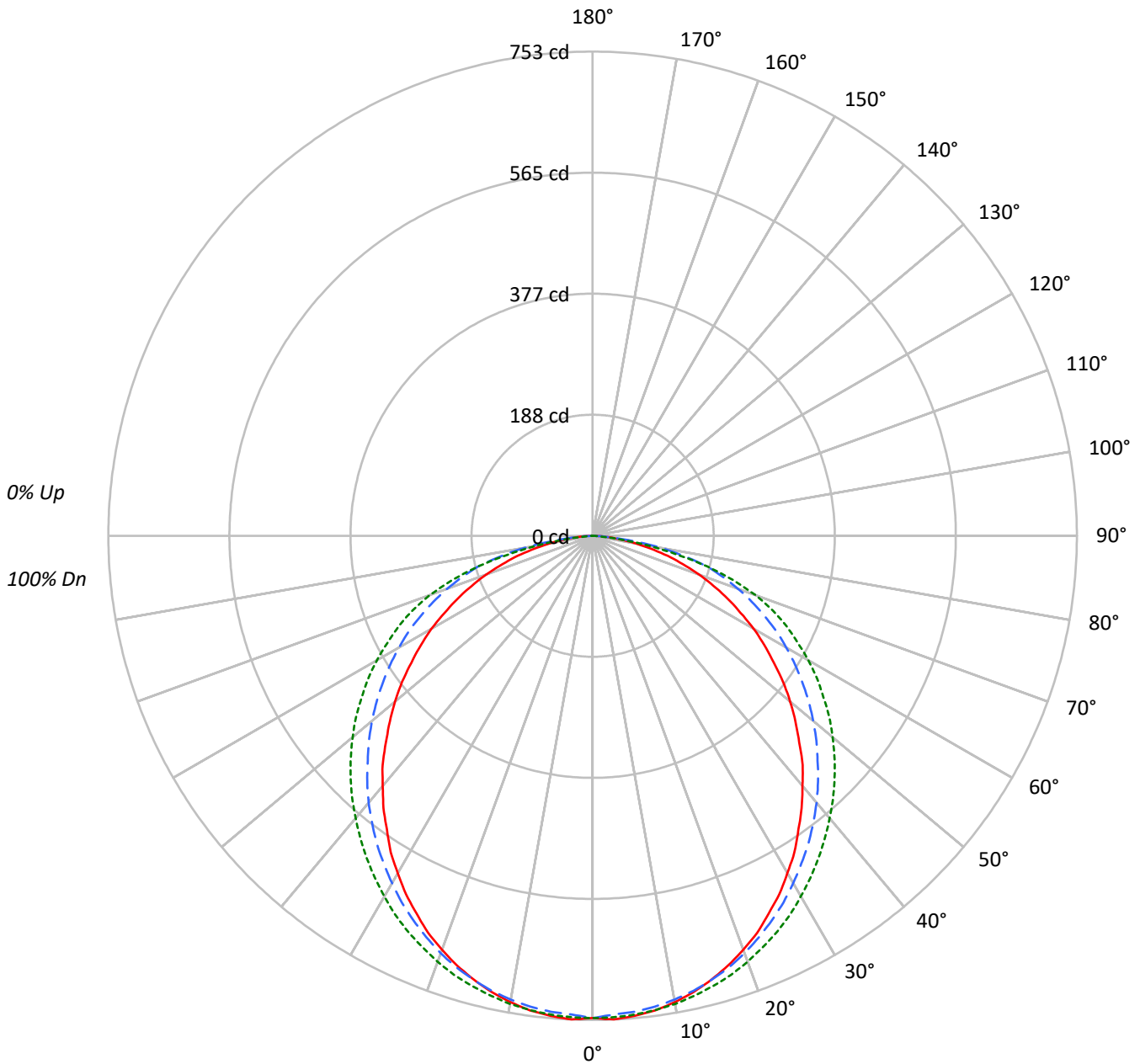
Lumens per Lamp: N/A
Luminaire Lumens: 2177.0 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
Input Voltage (V): NR
Input Current (Ain): 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	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	89	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°	2117	2117	2117
5°	2124	2106	2118
10°	2111	2100	2119
15°	2088	2089	2118
20°	2057	2075	2117
25°	2018	2055	2115
30°	1975	2033	2111
35°	1922	2015	2109
40°	1871	1996	2112
45°	1814	1974	2124
50°	1760	1966	2138
55°	1693	1959	2157
60°	1633	1962	2187
65°	1550	1968	2221
70°	1455	1983	2219
75°	1317	2001	2007
80°	1083	1726	1427
85°	800	819	330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	3.3
10°-20°	202.7	9.3
20°-30°	305.4	14.0
30°-40°	366.5	16.8
40°-50°	382.0	17.5
50°-60°	353.6	16.2
60°-70°	285.7	13.1
70°-80°	174.2	8.0
80°-90°	35.9	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°	579.1	26.6
0°-40°	945.6	43.4
0°-60°	1681.1	77.2
0°-90°	2177.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2177.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	750	750	750	750	750	
5°	750	748	743	748	748	71
15°	715	715	715	725	725	201
25°	648	652	660	676	679	299
35°	558	566	585	606	612	349
45°	454	468	495	522	532	351
55°	344	362	398	429	438	308
65°	232	255	295	324	332	229
75°	121	148	184	186	184	127
85°	25	37	25	14	10	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	750.0	750.0	750.0	750.0	750.0
2.5°	752.9	750.5	745.2	750.5	749.5
5°	749.5	747.6	743.2	748.5	747.6
7.5°	744.6	742.6	738.8	745.2	744.1
10°	736.4	735.4	732.5	739.8	739.3
12.5°	726.7	726.2	724.7	733.0	732.5
15°	714.6	715.0	715.0	724.7	724.7
17.5°	700.9	701.9	703.9	714.6	716.1
20°	684.9	686.9	690.8	703.0	704.8
22.5°	668.5	669.9	675.7	690.3	692.3
25°	648.0	651.9	659.7	676.2	679.2
27.5°	628.6	632.0	642.7	659.7	664.6
30°	605.8	611.1	623.8	642.3	647.6
32.5°	584.0	589.8	604.3	625.7	630.5
35°	557.8	566.5	584.9	606.3	612.1
37.5°	534.0	542.2	563.2	586.4	593.2
40°	507.7	518.0	541.8	566.5	573.3
42.5°	483.5	493.1	518.9	544.2	553.4
45°	454.4	468.0	494.6	522.3	532.0
47.5°	427.7	441.3	471.9	501.4	510.2
50°	400.9	415.5	447.6	478.2	486.9
52.5°	373.3	388.9	423.2	453.8	464.1
55°	344.1	362.2	398.1	429.1	438.3
57.5°	316.5	334.9	373.3	404.8	414.0
60°	289.3	308.3	347.6	377.7	387.4
62.5°	259.3	281.6	322.3	351.9	359.2
65°	232.0	254.9	294.7	324.2	332.5
67.5°	203.4	228.1	268.0	295.1	303.0
70°	176.3	201.9	240.3	265.5	268.9
72.5°	147.1	173.3	212.1	228.1	228.1
75°	120.8	147.5	183.5	186.4	184.0
77.5°	92.2	121.9	145.1	139.3	133.5
80°	66.6	95.7	106.2	95.7	87.8
82.5°	44.6	69.4	64.0	50.9	45.2
85°	24.7	36.9	25.3	14.0	10.2
87.5°	9.2	8.3	2.4	2.4	2.4
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)