

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: P732536

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732536
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-CA08-2700K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

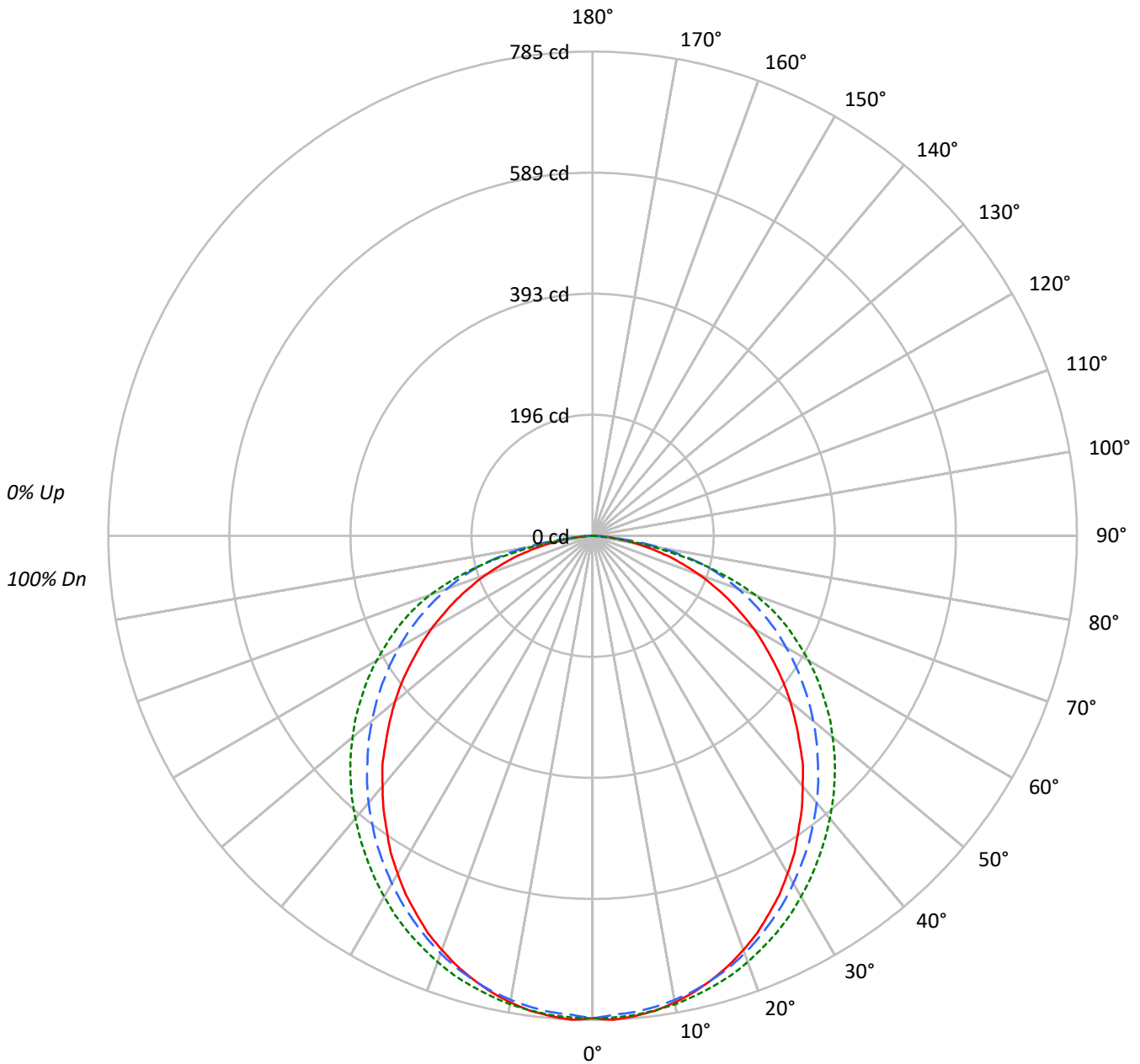
Lumens per Lamp: N/A
Luminaire Lumens: 2271.0 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
Input Voltage (V): NR
Input Current (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	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°	2208	2208	2208
5°	2215	2197	2210
10°	2202	2190	2210
15°	2178	2180	2209
20°	2146	2165	2209
25°	2105	2143	2207
30°	2060	2121	2202
35°	2005	2103	2200
40°	1951	2083	2204
45°	1892	2060	2215
50°	1836	2050	2230
55°	1767	2044	2250
60°	1704	2047	2282
65°	1616	2053	2317
70°	1518	2069	2315
75°	1374	2087	2094
80°	1128	1801	1489
85°	836	852	343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	3.3
10°-20°	211.5	9.3
20°-30°	318.6	14.0
30°-40°	382.3	16.8
40°-50°	398.5	17.5
50°-60°	368.9	16.2
60°-70°	298.0	13.1
70°-80°	181.7	8.0
80°-90°	37.5	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°	604.1	26.6
0°-40°	986.4	43.4
0°-60°	1753.7	77.2
0°-90°	2271.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2271.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	782	782	782	782	782	
5°	782	780	775	781	780	74
15°	745	746	746	756	756	210
25°	676	680	688	705	708	312
35°	582	591	610	632	638	365
45°	474	488	516	545	555	366
55°	359	378	415	448	457	322
65°	242	266	307	338	347	239
75°	126	154	191	194	192	132
85°	26	38	26	15	11	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	782.4	782.4	782.4	782.4	782.4
2.5°	785.4	782.9	777.4	782.9	781.8
5°	781.8	779.9	775.3	780.8	779.9
7.5°	776.8	774.7	770.7	777.4	776.2
10°	768.2	767.2	764.1	771.8	771.2
12.5°	758.1	757.6	756.0	764.7	764.1
15°	745.4	745.9	745.9	756.0	756.0
17.5°	731.2	732.2	734.3	745.4	747.0
20°	714.5	716.6	720.6	733.3	735.3
22.5°	697.3	698.9	704.9	720.1	722.2
25°	676.0	680.1	688.1	705.4	708.5
27.5°	655.8	659.3	670.4	688.1	693.3
30°	632.0	637.5	650.8	670.0	675.6
32.5°	609.2	615.2	630.4	652.7	657.7
35°	581.9	591.0	610.2	632.5	638.5
37.5°	557.1	565.6	587.5	611.7	618.8
40°	529.6	540.4	565.2	591.0	598.1
42.5°	504.4	514.4	541.3	567.7	577.3
45°	474.0	488.2	516.0	544.8	555.0
47.5°	446.1	460.3	492.3	523.1	532.3
50°	418.2	433.4	466.9	498.8	507.9
52.5°	389.4	405.7	441.5	473.4	484.2
55°	359.0	377.8	415.3	447.7	457.3
57.5°	330.1	349.4	389.4	422.3	431.9
60°	301.8	321.6	362.6	394.0	404.2
62.5°	270.5	293.7	336.3	367.1	374.7
65°	242.0	265.9	307.4	338.2	346.9
67.5°	212.2	238.0	279.5	307.8	316.0
70°	183.9	210.7	250.7	277.0	280.5
72.5°	153.5	180.8	221.2	238.0	238.0
75°	126.0	153.9	191.4	194.5	192.0
77.5°	96.2	127.1	151.4	145.3	139.3
80°	69.4	99.8	110.8	99.8	91.6
82.5°	46.6	72.4	66.8	53.1	47.1
85°	25.8	38.5	26.3	14.6	10.6
87.5°	9.6	8.6	2.5	2.5	2.5
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)