

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: P732612

Luminaire Tested: **14FCZ2-25-S-B2750-W2D-CA08-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275670)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-S-B2750-W2D-CA08-3000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND SMOOTH LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

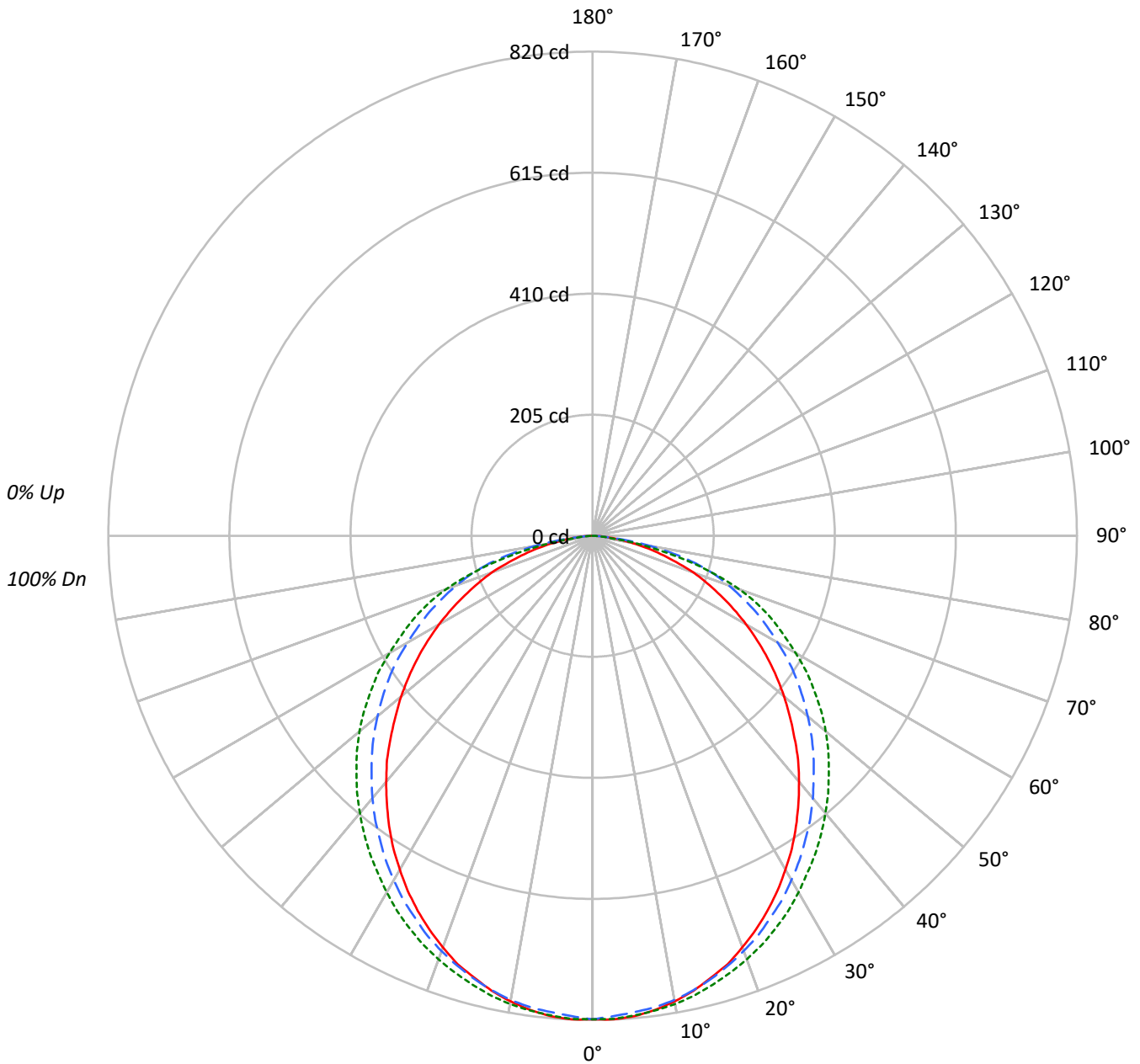
Lumens per Lamp: N/A
Luminaire Lumens: 2294.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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	94	91	89	90	88	86	84								
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70								
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58								
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50								
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43								
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38								
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33								
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30								
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27								
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2311	2311	2311
5°	2314	2295	2310
10°	2295	2288	2308
15°	2264	2270	2300
20°	2228	2248	2293
25°	2182	2221	2285
30°	2128	2195	2273
35°	2069	2164	2265
40°	2003	2137	2259
45°	1929	2111	2257
50°	1858	2088	2262
55°	1780	2071	2256
60°	1695	2042	2241
65°	1596	2036	2241
70°	1502	2019	2177
75°	1302	1973	1861
80°	1053	1590	1239
85°	700	551	369



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.3	3.4
10°-20°	220.0	9.6
20°-30°	330.1	14.4
30°-40°	393.8	17.2
40°-50°	407.1	17.7
50°-60°	371.7	16.2
60°-70°	292.5	12.7
70°-80°	170.2	7.4
80°-90°	31.4	1.4
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°	627.5	27.4
0°-40°	1021.2	44.5
0°-60°	1799.9	78.5
0°-90°	2294.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2294.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	819	819	819	819	819	
5°	817	814	810	817	815	77
15°	775	776	777	787	787	219
25°	701	704	713	730	734	323
35°	600	608	628	652	657	375
45°	483	499	529	558	565	373
55°	362	381	421	452	458	323
65°	239	264	305	329	336	237
75°	119	148	181	177	171	127
85°	22	31	17	14	11	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	818.9	818.9	818.9	818.9	818.9
2.5°	820.0	817.8	814.3	820.0	818.9
5°	816.7	814.3	809.9	816.7	815.4
7.5°	809.9	807.5	805.3	812.1	811.0
10°	800.7	799.6	798.4	806.4	805.3
12.5°	789.4	789.4	788.3	797.3	797.3
15°	774.6	775.7	776.8	787.0	787.0
17.5°	760.9	759.8	763.2	774.6	775.7
20°	741.6	743.8	748.4	762.1	763.2
22.5°	722.2	724.6	732.5	746.2	749.5
25°	700.6	704.1	713.1	730.1	733.6
27.5°	677.9	682.5	694.9	713.1	716.5
30°	652.8	659.6	673.3	693.8	697.3
32.5°	627.9	634.7	651.7	672.2	676.8
35°	600.5	608.5	627.9	651.7	657.4
37.5°	572.1	582.3	605.1	629.0	635.8
40°	543.7	555.1	580.0	605.1	613.1
42.5°	515.2	526.7	553.8	582.3	590.4
45°	483.3	499.4	528.9	558.4	565.3
47.5°	452.7	469.8	502.7	532.2	541.4
50°	423.1	440.1	475.4	506.2	515.2
52.5°	392.5	410.6	448.1	480.0	487.9
55°	361.7	381.0	420.9	451.6	458.4
57.5°	331.0	351.5	392.5	422.0	430.0
60°	300.3	321.9	361.7	391.2	396.9
62.5°	269.5	292.3	333.2	359.4	365.1
65°	238.9	263.8	304.8	328.8	335.6
67.5°	209.3	234.3	274.1	296.9	302.6
70°	182.0	204.7	244.6	261.6	263.8
72.5°	147.9	176.3	214.9	224.1	218.4
75°	119.4	147.9	180.9	177.4	170.6
77.5°	91.0	119.4	141.0	129.6	120.6
80°	64.8	93.2	97.8	80.7	76.2
82.5°	42.1	64.8	54.6	42.1	34.1
85°	21.6	30.7	17.0	13.7	11.4
87.5°	6.8	4.6	2.2	2.2	1.1
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)