

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: P732620

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732620
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-CA125-5000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND SMOOTH LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

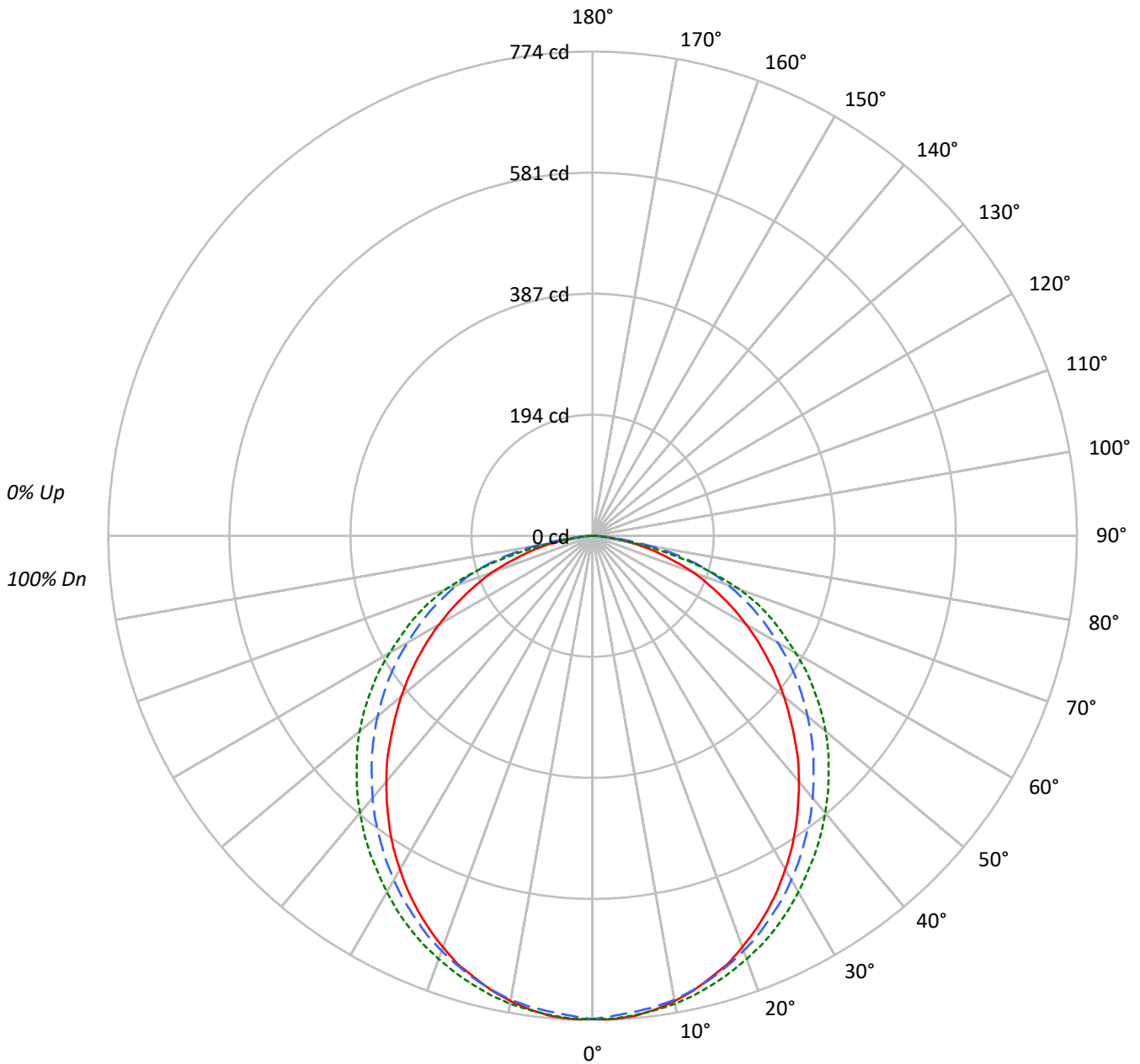
Lumens per Lamp: N/A
Luminaire Lumens: 2164.0 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	2181	2181	2181
5°	2183	2165	2179
10°	2165	2159	2177
15°	2135	2141	2169
20°	2101	2121	2162
25°	2058	2095	2156
30°	2007	2070	2144
35°	1952	2041	2137
40°	1890	2016	2131
45°	1820	1992	2128
50°	1753	1969	2134
55°	1679	1954	2128
60°	1599	1926	2114
65°	1505	1920	2115
70°	1417	1904	2054
75°	1229	1861	1755
80°	993	1500	1169
85°	661	518	350



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	3.4
10°-20°	207.6	9.6
20°-30°	311.4	14.4
30°-40°	371.4	17.2
40°-50°	384.0	17.7
50°-60°	350.6	16.2
60°-70°	275.9	12.7
70°-80°	160.6	7.4
80°-90°	29.6	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°	591.9	27.4
0°-40°	963.3	44.5
0°-60°	1697.9	78.5
0°-90°	2164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2164.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	770	768	764	770	769	73
15°	731	732	733	742	742	206
25°	661	664	673	689	692	304
35°	566	574	592	615	620	354
45°	456	471	499	527	533	352
55°	341	359	397	426	432	305
65°	225	249	288	310	317	224
75°	113	140	171	167	161	120
85°	20	29	16	13	11	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	772.5	772.5	772.5	772.5	772.5
2.5°	773.6	771.5	768.2	773.6	772.5
5°	770.4	768.2	764.0	770.4	769.2
7.5°	764.0	761.7	759.6	766.1	765.0
10°	755.3	754.2	753.2	760.7	759.6
12.5°	744.6	744.6	743.6	752.1	752.1
15°	730.7	731.8	732.8	742.4	742.4
17.5°	717.8	716.8	719.9	730.7	731.8
20°	699.6	701.7	706.0	718.9	719.9
22.5°	681.3	683.5	691.0	703.9	707.0
25°	660.9	664.2	672.7	688.8	692.1
27.5°	639.5	643.8	655.5	672.7	675.9
30°	615.8	622.2	635.1	654.5	657.7
32.5°	592.3	598.7	614.8	634.1	638.4
35°	566.5	574.0	592.3	614.8	620.1
37.5°	539.7	549.3	570.8	593.3	599.8
40°	512.9	523.6	547.2	570.8	578.3
42.5°	486.0	496.8	522.5	549.3	556.9
45°	455.9	471.1	498.9	526.8	533.2
47.5°	427.0	443.2	474.2	502.1	510.8
50°	399.1	415.2	448.4	477.5	486.0
52.5°	370.2	387.3	422.7	452.8	460.3
55°	341.2	359.4	397.0	426.0	432.4
57.5°	312.2	331.6	370.2	398.1	405.6
60°	283.3	303.7	341.2	369.0	374.4
62.5°	254.3	275.7	314.3	339.1	344.5
65°	225.3	248.9	287.5	310.1	316.6
67.5°	197.5	221.0	258.6	280.0	285.4
70°	171.7	193.1	230.7	246.8	248.9
72.5°	139.5	166.3	202.7	211.4	206.0
75°	112.7	139.5	170.6	167.4	160.9
77.5°	85.9	112.7	133.0	122.3	113.7
80°	61.1	88.0	92.3	76.1	71.9
82.5°	39.7	61.1	51.5	39.7	32.2
85°	20.4	28.9	16.0	12.9	10.8
87.5°	6.4	4.3	2.1	2.1	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)