

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: P732623

Luminaire Tested: **14FCZ2-25-S-B2750-W2D-CP187-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732623
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-CP187-3500K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SMOOTH LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

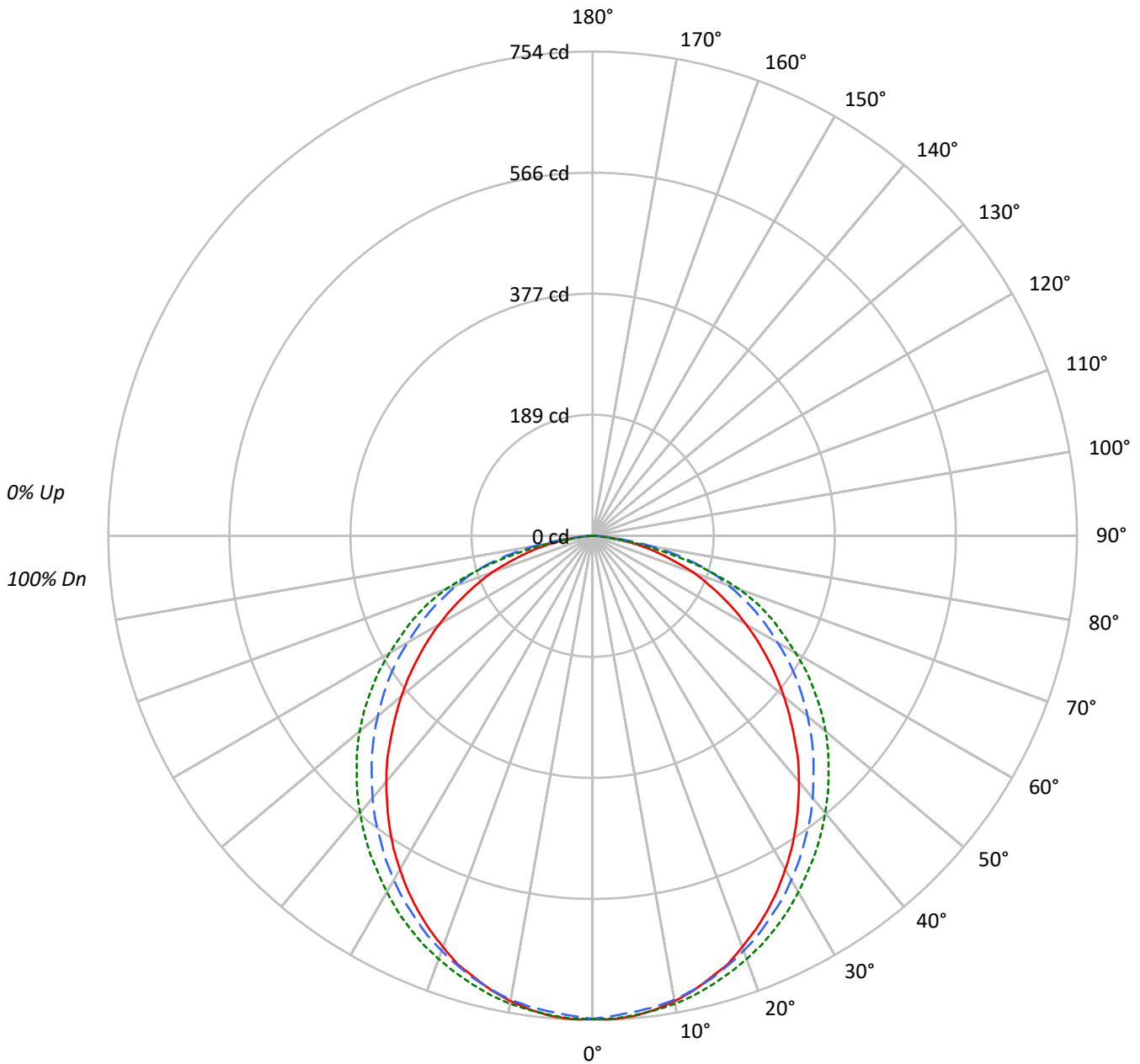
Lumens per Lamp: N/A
Luminaire Lumens: 2108.0 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P732623

CATALOG NUMBER: 14FCZ2-25-S-B2750-W2D-CP187-3500K

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	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°	2124	2124	2124
5°	2127	2109	2123
10°	2109	2103	2121
15°	2080	2086	2113
20°	2047	2066	2107
25°	2005	2041	2099
30°	1955	2017	2088
35°	1901	1988	2082
40°	1841	1964	2076
45°	1773	1940	2073
50°	1707	1918	2079
55°	1635	1904	2073
60°	1558	1876	2059
65°	1466	1871	2060
70°	1381	1855	2001
75°	1197	1813	1710
80°	969	1461	1139
85°	644	505	340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	3.4
10°-20°	202.2	9.6
20°-30°	303.3	14.4
30°-40°	361.8	17.2
40°-50°	374.1	17.7
50°-60°	341.5	16.2
60°-70°	268.8	12.7
70°-80°	156.5	7.4
80°-90°	28.8	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°	576.6	27.4
0°-40°	938.4	44.5
0°-60°	1654.0	78.5
0°-90°	2108.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2108.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	752	752	752	752	752	
5°	750	748	744	750	749	71
15°	712	713	714	723	723	201
25°	644	647	655	671	674	296
35°	552	559	577	599	604	345
45°	444	459	486	513	519	343
55°	332	350	387	415	421	297
65°	220	242	280	302	308	218
75°	110	136	166	163	157	117
85°	20	28	16	13	10	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	752.5	752.5	752.5	752.5	752.5
2.5°	753.6	751.5	748.3	753.6	752.5
5°	750.5	748.3	744.2	750.5	749.3
7.5°	744.2	742.0	740.0	746.3	745.2
10°	735.8	734.7	733.7	741.0	740.0
12.5°	725.4	725.4	724.4	732.7	732.7
15°	711.8	712.8	713.9	723.2	723.2
17.5°	699.3	698.2	701.3	711.8	712.8
20°	681.4	683.5	687.7	700.3	701.3
22.5°	663.6	665.8	673.1	685.7	688.7
25°	643.8	647.0	655.3	670.9	674.1
27.5°	622.9	627.1	638.5	655.3	658.4
30°	599.9	606.1	618.7	637.5	640.7
32.5°	576.9	583.2	598.8	617.7	621.9
35°	551.8	559.1	576.9	598.8	604.1
37.5°	525.7	535.1	556.1	578.0	584.2
40°	499.6	510.1	533.0	556.1	563.4
42.5°	473.5	484.0	508.9	535.1	542.5
45°	444.1	458.9	486.0	513.2	519.4
47.5°	416.0	431.7	461.9	489.1	497.5
50°	388.8	404.4	436.8	465.1	473.5
52.5°	360.6	377.3	411.7	441.1	448.4
55°	332.3	350.1	386.8	414.9	421.2
57.5°	304.2	323.0	360.6	387.8	395.1
60°	276.0	295.8	332.3	359.5	364.7
62.5°	247.7	268.6	306.2	330.3	335.5
65°	219.5	242.4	280.1	302.1	308.4
67.5°	192.4	215.3	251.9	272.8	278.0
70°	167.3	188.1	224.8	240.4	242.4
72.5°	135.9	162.0	197.5	205.9	200.7
75°	109.8	135.9	166.2	163.0	156.8
77.5°	83.6	109.8	129.6	119.1	110.8
80°	59.6	85.7	89.9	74.2	70.1
82.5°	38.7	59.6	50.2	38.7	31.4
85°	19.9	28.2	15.6	12.6	10.5
87.5°	6.3	4.2	2.0	2.0	1.0
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)