

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: P732625

Luminaire Tested: **14FCZ2-25-S-B2750-W2D-CP187-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732625
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-CP187-5000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND SMOOTH LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

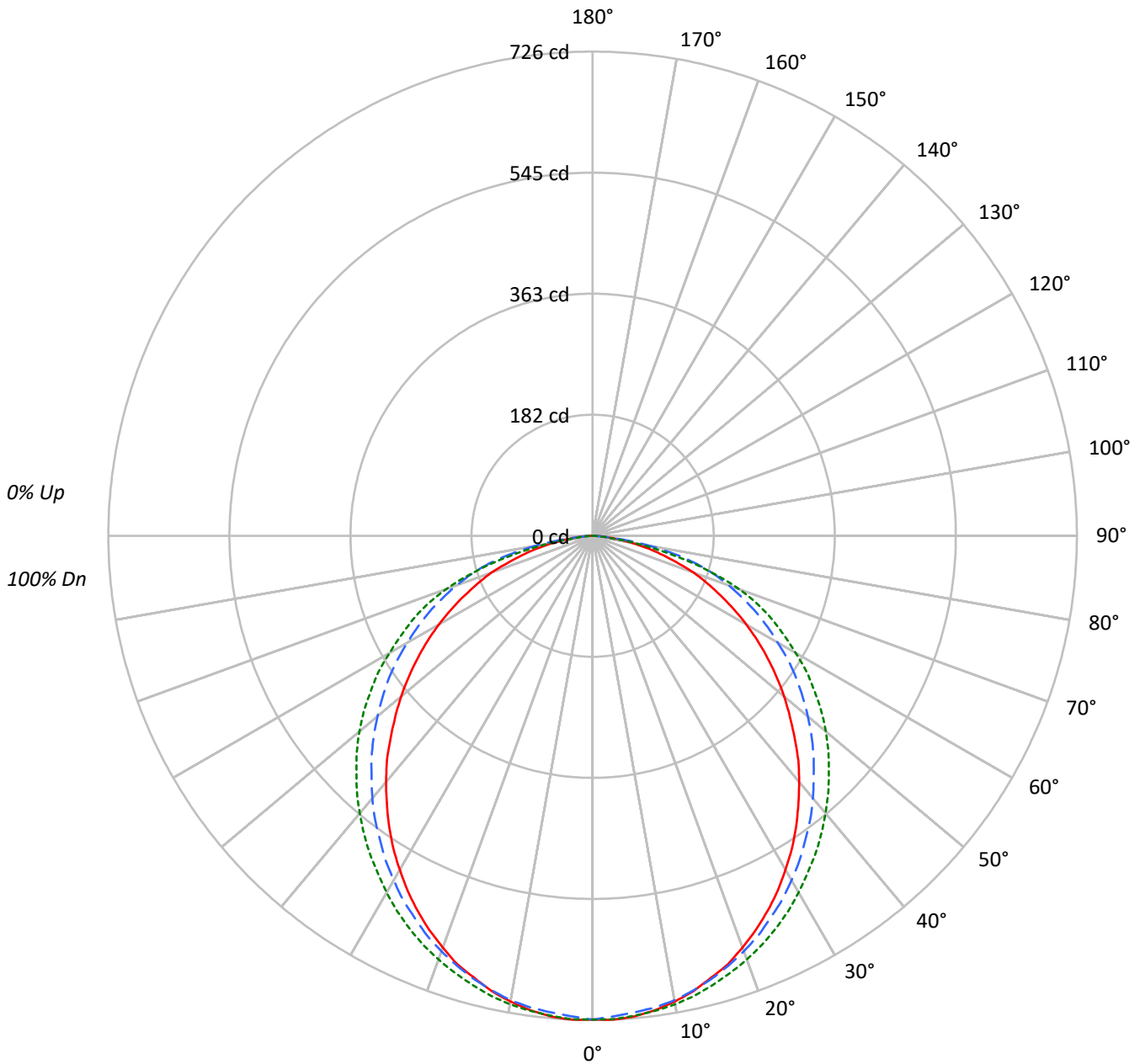
Lumens per Lamp: N/A
Luminaire Lumens: 2032.0 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P732625

CATALOG NUMBER: 14FCZ2-25-S-B2750-W2D-CP187-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P732625

CATALOG NUMBER: 14FCZ2-25-S-B2750-W2D-CP187-5000K

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°	2048	2048	2048
5°	2050	2033	2047
10°	2033	2027	2044
15°	2005	2011	2037
20°	1973	1991	2031
25°	1933	1967	2024
30°	1885	1944	2013
35°	1833	1916	2007
40°	1775	1893	2001
45°	1709	1870	1999
50°	1646	1849	2004
55°	1577	1835	1998
60°	1502	1809	1985
65°	1413	1803	1986
70°	1330	1788	1929
75°	1154	1747	1648
80°	933	1409	1097
85°	619	489	327



TEST NUMBER: P732625

CATALOG NUMBER: 14FCZ2-25-S-B2750-W2D-CP187-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	3.4
10°-20°	194.9	9.6
20°-30°	292.4	14.4
30°-40°	348.8	17.2
40°-50°	360.6	17.7
50°-60°	329.2	16.2
60°-70°	259.1	12.7
70°-80°	150.8	7.4
80°-90°	27.8	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°	555.8	27.4
0°-40°	904.6	44.5
0°-60°	1594.4	78.5
0°-90°	2032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2032.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	723	721	717	723	722	69
15°	686	687	688	697	697	194
25°	621	624	632	647	650	286
35°	532	539	556	577	582	332
45°	428	442	468	495	501	331
55°	320	338	373	400	406	287
65°	212	234	270	291	297	210
75°	106	131	160	157	151	112
85°	19	27	15	12	10	25
90°	0	0	0	0	0	



TEST NUMBER: P732625

CATALOG NUMBER: 14FCZ2-25-S-B2750-W2D-CP187-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	725.4	725.4	725.4	725.4	725.4
2.5°	726.4	724.4	721.3	726.4	725.4
5°	723.4	721.3	717.4	723.4	722.3
7.5°	717.4	715.3	713.3	719.3	718.4
10°	709.2	708.2	707.2	714.3	713.3
12.5°	699.2	699.2	698.2	706.3	706.3
15°	686.1	687.1	688.1	697.1	697.1
17.5°	674.0	673.1	676.0	686.1	687.1
20°	656.9	658.9	662.9	675.0	676.0
22.5°	639.7	641.8	648.9	661.0	663.9
25°	620.6	623.7	631.7	646.8	649.8
27.5°	600.5	604.5	615.5	631.7	634.7
30°	578.2	584.3	596.4	614.5	617.6
32.5°	556.1	562.2	577.3	595.4	599.5
35°	531.9	539.0	556.1	577.3	582.3
37.5°	506.8	515.8	536.0	557.1	563.2
40°	481.6	491.7	513.8	536.0	543.1
42.5°	456.4	466.5	490.6	515.8	522.9
45°	428.1	442.3	468.5	494.7	500.7
47.5°	401.0	416.2	445.3	471.5	479.6
50°	374.8	389.9	421.1	448.4	456.4
52.5°	347.6	363.7	396.9	425.2	432.2
55°	320.4	337.5	372.8	400.0	406.0
57.5°	293.2	311.3	347.6	373.8	380.8
60°	266.0	285.2	320.4	346.5	351.6
62.5°	238.8	258.9	295.2	318.4	323.4
65°	211.6	233.7	270.0	291.2	297.3
67.5°	185.4	207.5	242.8	263.0	268.0
70°	161.2	181.3	216.7	231.7	233.7
72.5°	131.0	156.2	190.4	198.5	193.4
75°	105.8	131.0	160.2	157.2	151.1
77.5°	80.6	105.8	124.9	114.8	106.8
80°	57.4	82.6	86.7	71.5	67.5
82.5°	37.3	57.4	48.4	37.3	30.2
85°	19.1	27.2	15.1	12.1	10.1
87.5°	6.0	4.1	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)