

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: P732622

Luminaire Tested: **14FCZ2-25-S-B2750-W2D-CP187-3000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732622
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-CP187-3000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND SMOOTH LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

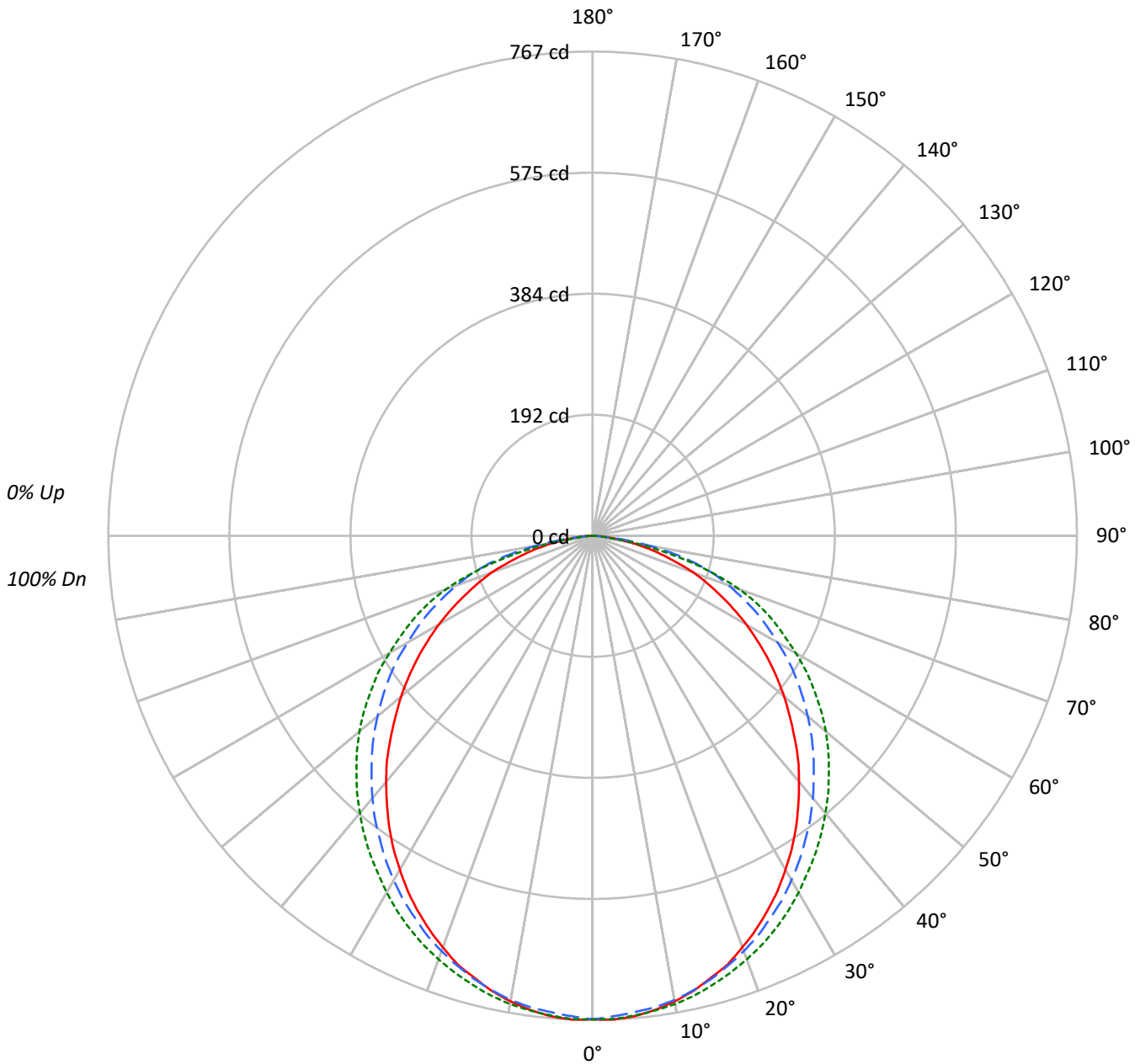
Lumens per Lamp: N/A
Luminaire Lumens: 2146.0 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	2162	2162	2162
5°	2165	2147	2161
10°	2147	2141	2159
15°	2117	2124	2151
20°	2084	2103	2144
25°	2041	2078	2137
30°	1990	2053	2126
35°	1936	2024	2119
40°	1874	1999	2113
45°	1805	1975	2111
50°	1738	1953	2117
55°	1665	1937	2110
60°	1586	1910	2096
65°	1493	1904	2097
70°	1405	1888	2037
75°	1218	1845	1741
80°	985	1487	1159
85°	654	515	347



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	3.4
10°-20°	205.9	9.6
20°-30°	308.8	14.4
30°-40°	368.3	17.2
40°-50°	380.8	17.7
50°-60°	347.7	16.2
60°-70°	273.6	12.7
70°-80°	159.2	7.4
80°-90°	29.3	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°	587.0	27.4
0°-40°	955.3	44.5
0°-60°	1683.8	78.5
0°-90°	2146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2146.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	764	762	758	764	763	72
15°	725	726	727	736	736	204
25°	655	659	667	683	686	302
35°	562	569	587	610	615	351
45°	452	467	495	522	529	349
55°	338	356	394	422	429	303
65°	224	247	285	308	314	222
75°	112	138	169	166	160	119
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°	766.1	766.1	766.1	766.1	766.1
2.5°	767.1	765.0	761.8	767.1	766.1
5°	764.0	761.8	757.6	764.0	762.8
7.5°	757.6	755.4	753.3	759.7	758.7
10°	749.0	748.0	746.9	754.4	753.3
12.5°	738.5	738.5	737.4	745.9	745.9
15°	724.6	725.7	726.7	736.2	736.2
17.5°	711.9	710.8	713.9	724.6	725.7
20°	693.7	695.8	700.1	712.9	713.9
22.5°	675.6	677.8	685.3	698.0	701.2
25°	655.4	658.7	667.1	683.0	686.3
27.5°	634.2	638.5	650.1	667.1	670.3
30°	610.7	617.1	629.8	649.0	652.3
32.5°	587.3	593.7	609.6	628.8	633.1
35°	561.8	569.2	587.3	609.6	615.0
37.5°	535.2	544.7	566.1	588.4	594.8
40°	508.6	519.3	542.6	566.1	573.5
42.5°	482.0	492.7	518.1	544.7	552.3
45°	452.1	467.1	494.8	522.4	528.8
47.5°	423.5	439.5	470.3	497.9	506.5
50°	395.8	411.7	444.7	473.5	482.0
52.5°	367.1	384.1	419.2	449.0	456.4
55°	338.3	356.4	393.7	422.4	428.8
57.5°	309.6	328.8	367.1	394.8	402.2
60°	281.0	301.2	338.3	366.0	371.3
62.5°	252.1	273.4	311.7	336.2	341.6
65°	223.5	246.8	285.1	307.6	313.9
67.5°	195.8	219.2	256.5	277.7	283.0
70°	170.3	191.5	228.8	244.7	246.8
72.5°	138.3	164.9	201.0	209.6	204.3
75°	111.7	138.3	169.2	166.0	159.6
77.5°	85.1	111.7	131.9	121.3	112.8
80°	60.6	87.2	91.5	75.5	71.3
82.5°	39.4	60.6	51.1	39.4	31.9
85°	20.2	28.7	15.9	12.8	10.7
87.5°	6.4	4.3	2.1	2.1	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)