

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: P732549

Luminaire Tested: **14FCZ2-25-B2750-W2D-CP187-4000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275502)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-B2750-W2D-CP187-4000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RIBBED LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

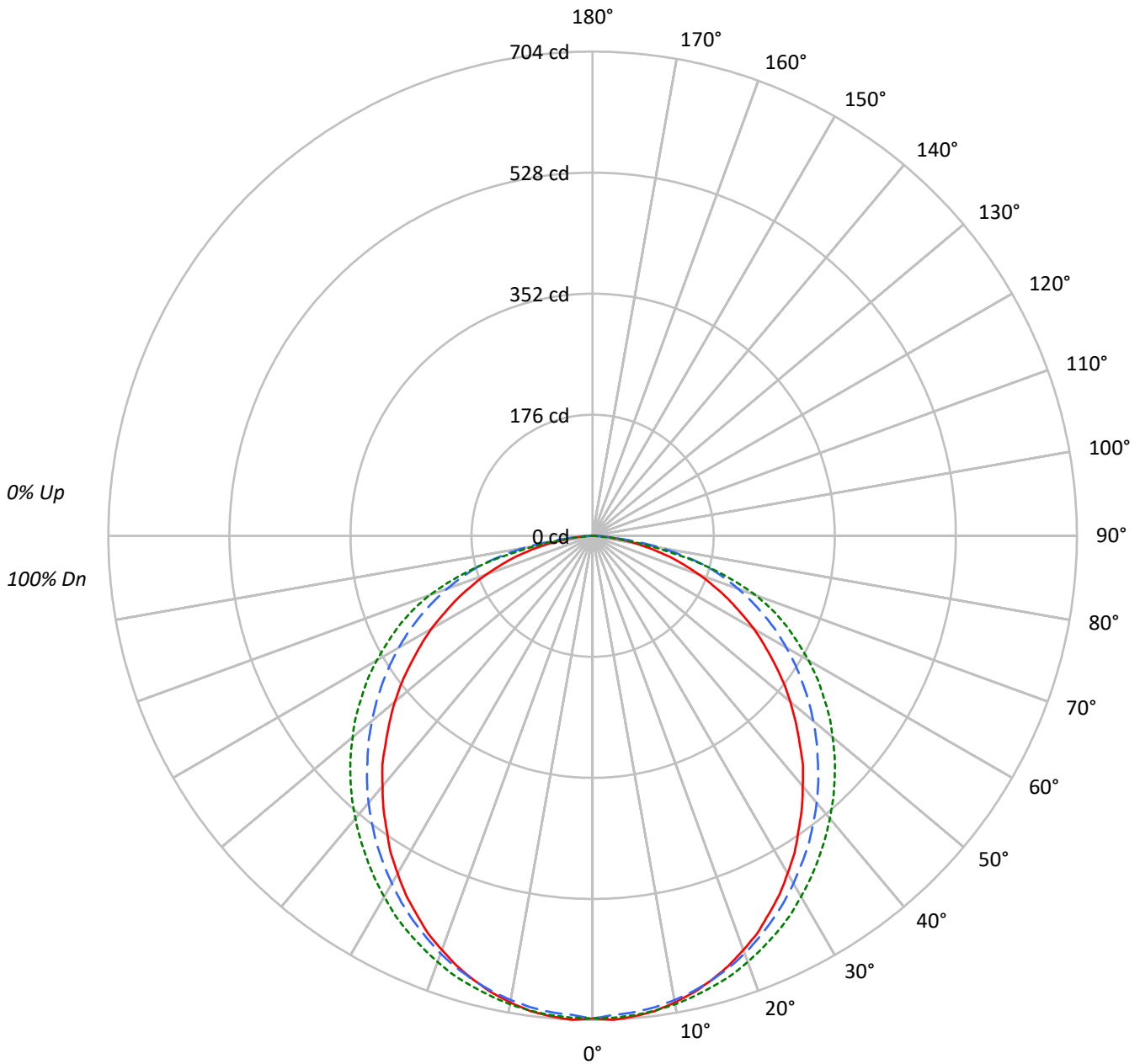
Lumens per Lamp: N/A
Luminaire Lumens: 2037.0 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83																			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32																			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1981	1981	1981
5°	1987	1970	1982
10°	1975	1965	1983
15°	1954	1955	1982
20°	1925	1942	1981
25°	1889	1922	1979
30°	1847	1902	1975
35°	1798	1886	1973
40°	1751	1868	1977
45°	1697	1847	1987
50°	1647	1839	2000
55°	1585	1833	2019
60°	1528	1836	2046
65°	1450	1841	2078
70°	1361	1855	2076
75°	1232	1873	1878
80°	1013	1616	1336
85°	748	764	308



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	3.3
10°-20°	189.7	9.3
20°-30°	285.8	14.0
30°-40°	342.9	16.8
40°-50°	357.4	17.5
50°-60°	330.9	16.2
60°-70°	267.3	13.1
70°-80°	163.0	8.0
80°-90°	33.6	1.7
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°	541.8	26.6
0°-40°	884.8	43.4
0°-60°	1573.0	77.2
0°-90°	2037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2037.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	701	700	695	700	700	67
15°	669	669	669	678	678	188
25°	606	610	617	633	636	279
35°	522	530	547	567	573	327
45°	425	438	463	489	498	329
55°	322	339	372	402	410	288
65°	217	238	276	303	311	215
75°	113	138	172	174	172	119
85°	23	34	24	13	10	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	701.8	701.8	701.8	701.8	701.8
2.5°	704.5	702.3	697.3	702.3	701.3
5°	701.3	699.5	695.4	700.4	699.5
7.5°	696.8	694.9	691.3	697.3	696.3
10°	689.0	688.1	685.4	692.3	691.8
12.5°	680.0	679.5	678.1	685.9	685.4
15°	668.6	669.0	669.0	678.1	678.1
17.5°	655.9	656.7	658.6	668.6	670.0
20°	640.9	642.7	646.4	657.7	659.5
22.5°	625.5	626.9	632.2	645.9	647.7
25°	606.4	610.0	617.2	632.7	635.5
27.5°	588.2	591.3	601.4	617.2	621.9
30°	566.8	571.8	583.7	601.0	606.0
32.5°	546.5	551.8	565.5	585.5	590.0
35°	521.9	530.1	547.3	567.3	572.7
37.5°	499.7	507.3	526.9	548.7	555.1
40°	475.1	484.7	506.9	530.1	536.5
42.5°	452.4	461.4	485.6	509.2	517.8
45°	425.2	437.9	462.8	488.7	497.8
47.5°	400.2	412.9	441.5	469.2	477.4
50°	375.1	388.8	418.8	447.4	455.5
52.5°	349.3	363.9	396.0	424.7	434.3
55°	322.0	338.9	372.5	401.5	410.2
57.5°	296.1	313.4	349.3	378.8	387.4
60°	270.7	288.5	325.2	353.4	362.5
62.5°	242.6	263.5	301.6	329.2	336.1
65°	217.1	238.5	275.7	303.4	311.1
67.5°	190.3	213.5	250.7	276.1	283.5
70°	164.9	188.9	224.8	248.5	251.6
72.5°	137.7	162.2	198.4	213.5	213.5
75°	113.0	138.1	171.7	174.4	172.2
77.5°	86.3	114.0	135.8	130.3	124.9
80°	62.3	89.5	99.4	89.5	82.2
82.5°	41.8	64.9	59.9	47.6	42.3
85°	23.1	34.5	23.6	13.1	9.5
87.5°	8.6	7.8	2.3	2.3	2.3
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)