

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: P732554

Luminaire Tested: **14FCZ2-25-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732554
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-CP250-4000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RIBBED LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

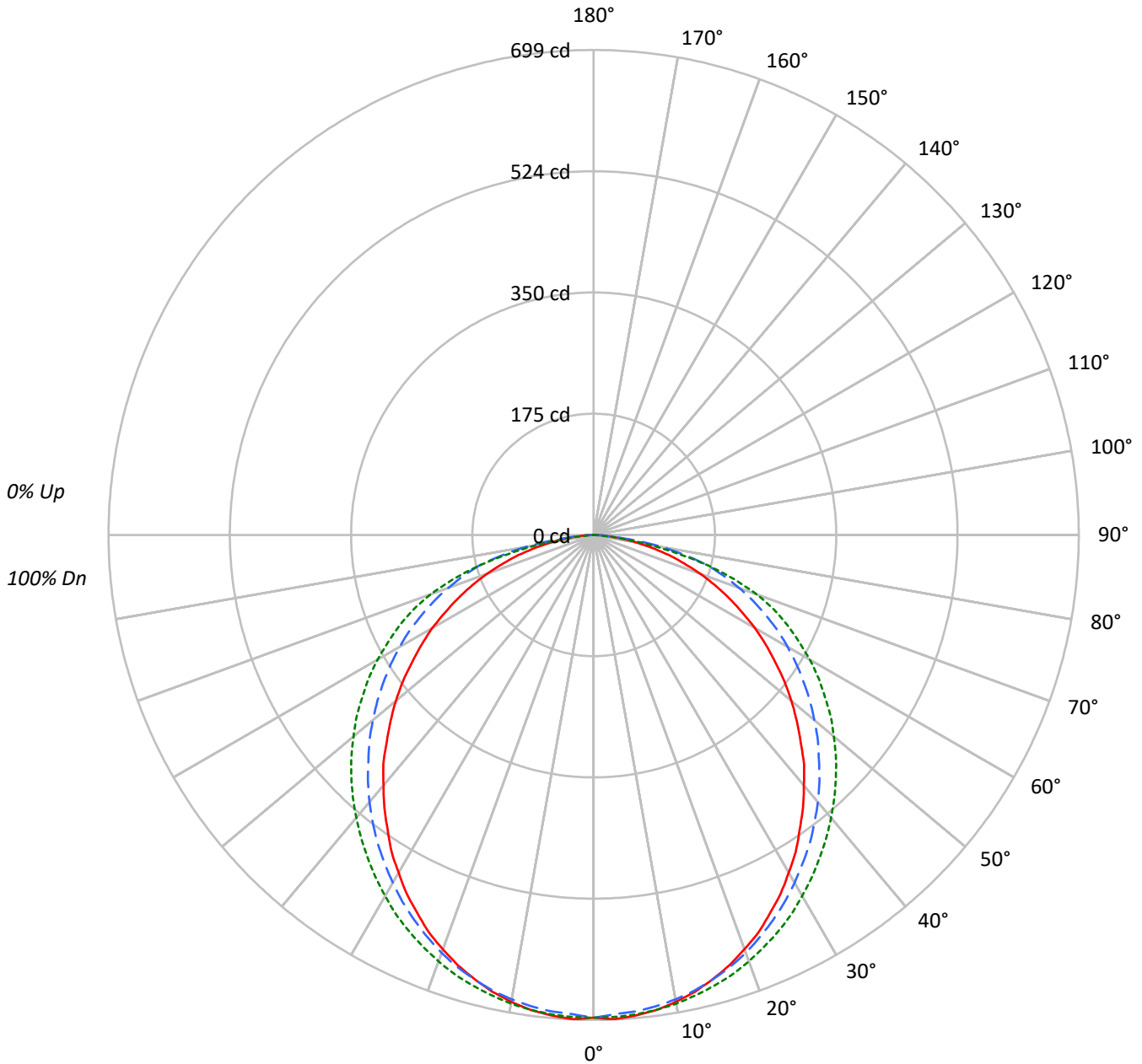
Lumens per Lamp: N/A
Luminaire Lumens: 2020.0 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1964	1964	1964
5°	1970	1954	1966
10°	1958	1948	1966
15°	1937	1939	1965
20°	1909	1925	1965
25°	1873	1906	1963
30°	1832	1887	1959
35°	1784	1870	1957
40°	1736	1852	1960
45°	1683	1832	1971
50°	1634	1824	1984
55°	1571	1818	2001
60°	1516	1821	2030
65°	1438	1826	2060
70°	1350	1840	2059
75°	1223	1857	1863
80°	1005	1603	1325
85°	742	758	304



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	3.3
10°-20°	188.1	9.3
20°-30°	283.4	14.0
30°-40°	340.1	16.8
40°-50°	354.4	17.5
50°-60°	328.1	16.2
60°-70°	265.1	13.1
70°-80°	161.7	8.0
80°-90°	33.3	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°	537.3	26.6
0°-40°	877.4	43.4
0°-60°	1559.9	77.2
0°-90°	2020.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2020.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	695	694	690	694	694	66
15°	663	663	663	672	672	187
25°	601	605	612	628	630	277
35°	518	526	543	563	568	324
45°	422	434	459	485	494	326
55°	319	336	369	398	407	286
65°	215	236	273	301	308	213
75°	112	137	170	173	171	118
85°	23	34	23	13	9	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	695.9	695.9	695.9	695.9	695.9
2.5°	698.6	696.4	691.4	696.4	695.4
5°	695.4	693.7	689.6	694.5	693.7
7.5°	690.9	689.1	685.5	691.4	690.5
10°	683.3	682.4	679.7	686.5	686.0
12.5°	674.3	673.8	672.5	680.2	679.7
15°	663.0	663.4	663.4	672.5	672.5
17.5°	650.4	651.3	653.1	663.0	664.4
20°	635.5	637.4	641.0	652.3	654.0
22.5°	620.3	621.6	627.0	640.5	642.3
25°	601.3	604.9	612.1	627.5	630.2
27.5°	583.3	586.4	596.3	612.1	616.7
30°	562.1	567.1	578.8	596.0	600.9
32.5°	541.9	547.2	560.7	580.6	585.0
35°	517.6	525.7	542.8	562.6	567.9
37.5°	495.5	503.1	522.6	544.1	550.5
40°	471.1	480.6	502.7	525.7	532.0
42.5°	448.6	457.6	481.5	504.9	513.5
45°	421.6	434.3	458.9	484.6	493.7
47.5°	396.8	409.5	437.9	465.3	473.4
50°	372.0	385.5	415.3	443.7	451.7
52.5°	346.3	360.8	392.7	421.1	430.7
55°	319.3	336.0	369.4	398.2	406.7
57.5°	293.6	310.8	346.3	375.6	384.2
60°	268.5	286.1	322.5	350.4	359.5
62.5°	240.6	261.3	299.1	326.5	333.3
65°	215.3	236.5	273.4	300.8	308.5
67.5°	188.7	211.7	248.6	273.8	281.1
70°	163.6	187.4	223.0	246.4	249.5
72.5°	136.5	160.8	196.8	211.7	211.7
75°	112.1	136.9	170.3	173.0	170.8
77.5°	85.6	113.1	134.7	129.2	123.9
80°	61.8	88.8	98.6	88.8	81.5
82.5°	41.4	64.4	59.4	47.2	41.9
85°	22.9	34.2	23.4	13.0	9.4
87.5°	8.6	7.7	2.2	2.2	2.2
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)