

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: P732635

Luminaire Tested: **14FCZ2-25-S-B2750-W2D-CP375-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732635
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-CP375-5000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND SMOOTH LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

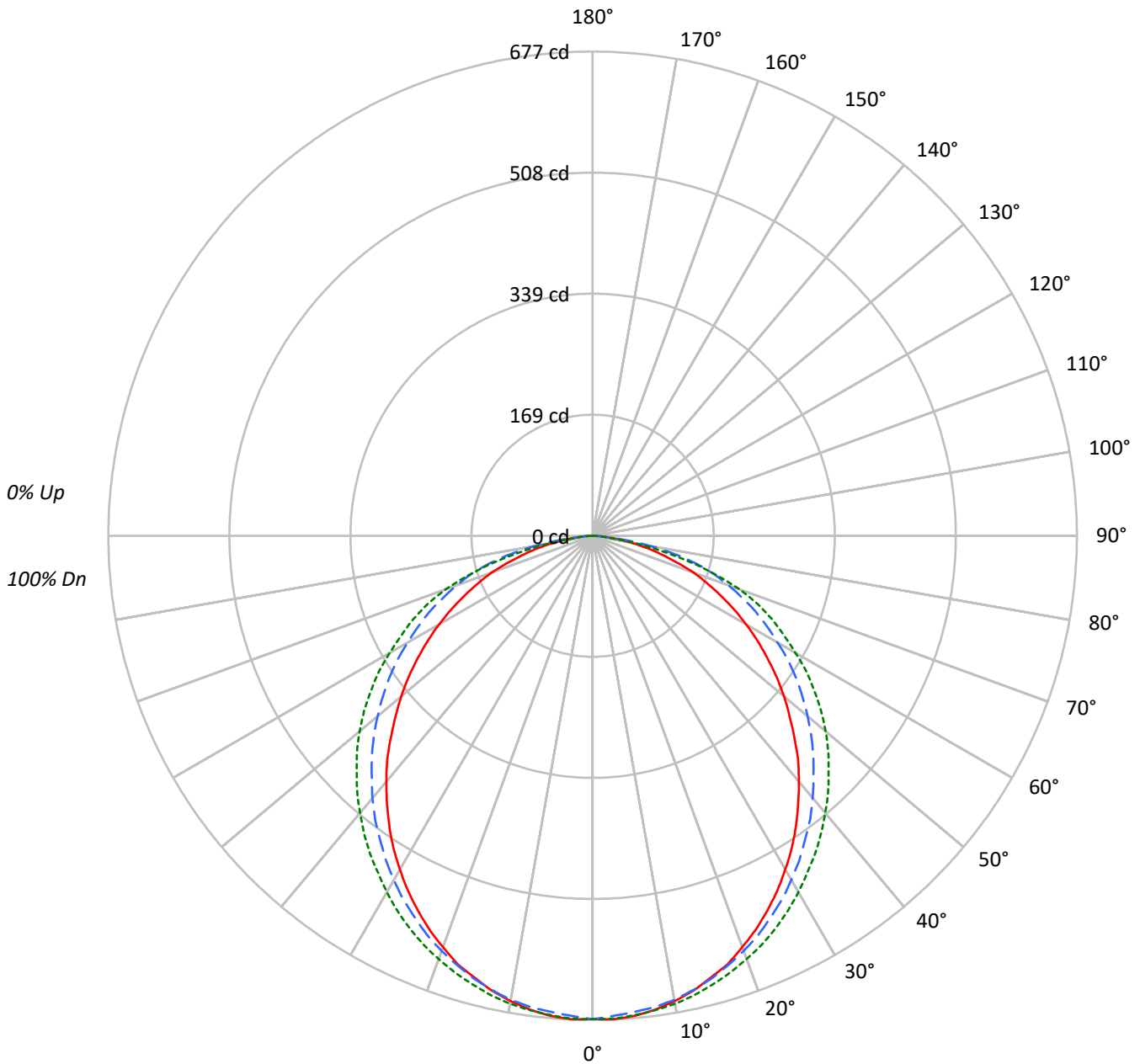
Lumens per Lamp: N/A
Luminaire Lumens: 1893.0 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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°	1908	1908	1908
5°	1909	1894	1907
10°	1894	1889	1905
15°	1868	1873	1898
20°	1838	1855	1892
25°	1800	1833	1886
30°	1756	1811	1875
35°	1708	1785	1869
40°	1653	1764	1864
45°	1592	1742	1862
50°	1533	1723	1867
55°	1468	1709	1862
60°	1399	1685	1849
65°	1316	1680	1849
70°	1240	1665	1797
75°	1075	1628	1536
80°	870	1312	1022
85°	576	453	304



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	3.4
10°-20°	181.6	9.6
20°-30°	272.4	14.4
30°-40°	324.9	17.2
40°-50°	335.9	17.7
50°-60°	306.7	16.2
60°-70°	241.3	12.7
70°-80°	140.5	7.4
80°-90°	25.9	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°	517.8	27.4
0°-40°	842.7	44.5
0°-60°	1485.3	78.5
0°-90°	1893.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1893.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	676	676	676	676	676	
5°	674	672	668	674	673	64
15°	639	640	641	649	649	180
25°	578	581	588	602	605	266
35°	496	502	518	538	542	310
45°	399	412	436	461	466	308
55°	298	314	347	373	378	267
65°	197	218	252	271	277	196
75°	99	122	149	146	141	105
85°	18	25	14	11	9	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	675.8	675.8	675.8	675.8	675.8
2.5°	676.7	674.9	672.0	676.7	675.8
5°	673.9	672.0	668.3	673.9	672.9
7.5°	668.3	666.3	664.5	670.1	669.2
10°	660.7	659.8	658.9	665.4	664.5
12.5°	651.4	651.4	650.5	657.9	657.9
15°	639.2	640.1	641.0	649.4	649.4
17.5°	627.9	627.0	629.8	639.2	640.1
20°	611.9	613.8	617.6	628.9	629.8
22.5°	596.0	597.9	604.5	615.7	618.5
25°	578.1	581.0	588.5	602.5	605.4
27.5°	559.4	563.2	573.4	588.5	591.2
30°	538.7	544.3	555.6	572.5	575.4
32.5°	518.1	523.7	537.8	554.7	558.5
35°	495.6	502.1	518.1	537.8	542.5
37.5°	472.1	480.5	499.4	519.0	524.7
40°	448.6	458.1	478.7	499.4	505.9
42.5°	425.2	434.6	457.0	480.5	487.2
45°	398.8	412.1	436.4	460.8	466.5
47.5°	373.5	387.7	414.8	439.2	446.8
50°	349.2	363.2	392.3	417.7	425.2
52.5°	323.9	338.8	369.7	396.1	402.6
55°	298.4	314.4	347.3	372.6	378.3
57.5°	273.1	290.0	323.9	348.2	354.8
60°	247.8	265.7	298.4	322.8	327.5
62.5°	222.4	241.2	275.0	296.6	301.3
65°	197.1	217.7	251.5	271.3	276.9
67.5°	172.7	193.3	226.2	245.0	249.7
70°	150.2	168.9	201.8	215.9	217.7
72.5°	122.0	145.5	177.3	184.9	180.2
75°	98.6	122.0	149.3	146.4	140.8
77.5°	75.1	98.6	116.4	107.0	99.5
80°	53.5	76.9	80.7	66.6	62.9
82.5°	34.7	53.5	45.1	34.7	28.2
85°	17.8	25.3	14.0	11.3	9.4
87.5°	5.6	3.8	1.8	1.8	0.9
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)