

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: P732560

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732560
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-CP375-5000K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RIBBED LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

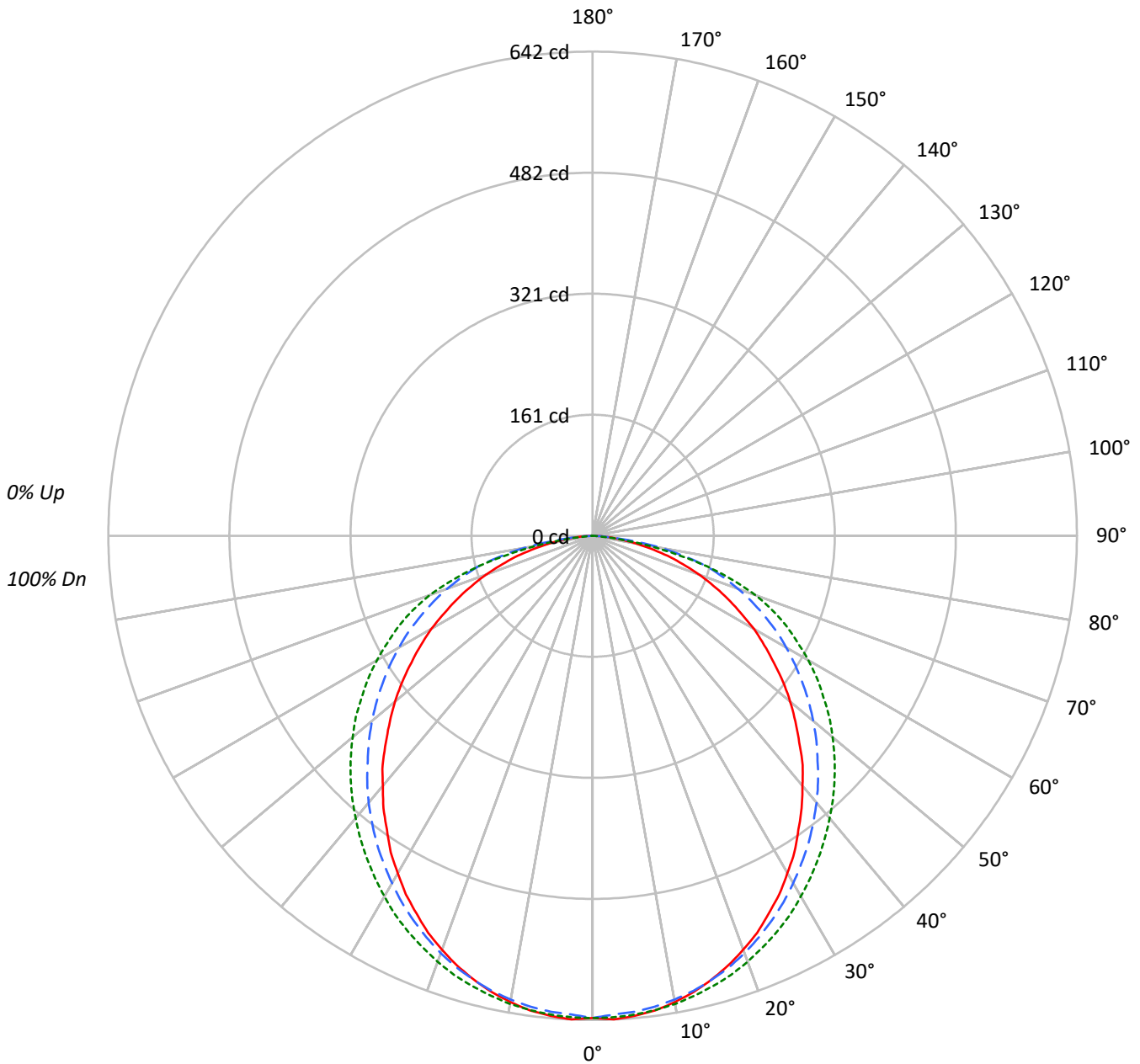
Lumens per Lamp: N/A
Luminaire Lumens: 1856.0 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P732560

CATALOG NUMBER: 14FCZ2-25-B2750-W2D-CP375-5000K

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°	1805	1805	1805
5°	1811	1795	1806
10°	1799	1790	1807
15°	1780	1781	1806
20°	1754	1769	1805
25°	1721	1752	1803
30°	1683	1734	1799
35°	1639	1718	1798
40°	1595	1702	1801
45°	1546	1683	1811
50°	1501	1676	1823
55°	1444	1670	1839
60°	1393	1673	1865
65°	1321	1678	1894
70°	1240	1691	1892
75°	1123	1706	1711
80°	922	1473	1218
85°	683	696	282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	3.3
10°-20°	172.8	9.3
20°-30°	260.4	14.0
30°-40°	312.4	16.8
40°-50°	325.6	17.5
50°-60°	301.5	16.2
60°-70°	243.6	13.1
70°-80°	148.5	8.0
80°-90°	30.7	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°	493.7	26.6
0°-40°	806.1	43.4
0°-60°	1433.3	77.2
0°-90°	1856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1856.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	639	639	639	639	639	
5°	639	637	634	638	637	61
15°	609	610	610	618	618	172
25°	552	556	562	576	579	255
35°	476	483	499	517	522	298
45°	387	399	422	445	454	299
55°	293	309	339	366	374	263
65°	198	217	251	276	284	196
75°	103	126	156	159	157	108
85°	21	31	22	12	9	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	639.4	639.4	639.4	639.4	639.4
2.5°	641.9	639.9	635.3	639.9	639.0
5°	639.0	637.4	633.6	638.2	637.4
7.5°	634.9	633.1	629.8	635.3	634.4
10°	627.8	627.0	624.5	630.7	630.3
12.5°	619.6	619.1	617.9	624.9	624.5
15°	609.2	609.6	609.6	617.9	617.9
17.5°	597.6	598.4	600.1	609.2	610.5
20°	583.9	585.6	588.9	599.3	600.9
22.5°	569.9	571.2	576.1	588.5	590.2
25°	552.5	555.8	562.4	576.5	579.0
27.5°	536.0	538.8	547.9	562.4	566.6
30°	516.5	521.0	531.9	547.6	552.1
32.5°	497.9	502.8	515.2	533.4	537.5
35°	475.6	483.0	498.7	516.9	521.8
37.5°	455.3	462.2	480.1	500.0	505.8
40°	432.8	441.6	461.9	483.0	488.8
42.5°	412.2	420.4	442.4	463.9	471.8
45°	387.4	399.0	421.7	445.3	453.6
47.5°	364.6	376.2	402.3	427.5	435.0
50°	341.8	354.2	381.6	407.7	415.1
52.5°	318.2	331.6	360.8	386.9	395.7
55°	293.4	308.8	339.4	365.8	373.7
57.5°	269.8	285.5	318.2	345.1	353.0
60°	246.7	262.8	296.3	322.0	330.3
62.5°	221.0	240.1	274.8	300.0	306.3
65°	197.8	217.3	251.2	276.4	283.5
67.5°	173.4	194.5	228.4	251.6	258.3
70°	150.3	172.2	204.9	226.4	229.2
72.5°	125.4	147.8	180.8	194.5	194.5
75°	103.0	125.8	156.4	158.9	156.9
77.5°	78.6	103.9	123.7	118.7	113.8
80°	56.7	81.6	90.6	81.6	74.9
82.5°	38.1	59.1	54.6	43.4	38.5
85°	21.1	31.4	21.5	12.0	8.7
87.5°	7.9	7.1	2.1	2.1	2.1
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)