

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: P732431

Luminaire Tested: **14FCZ2-20-B2750-W2D-CP375-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732431
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: 14FCZ2-20-B2750-W2D-CP375-2700K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RIBBED LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

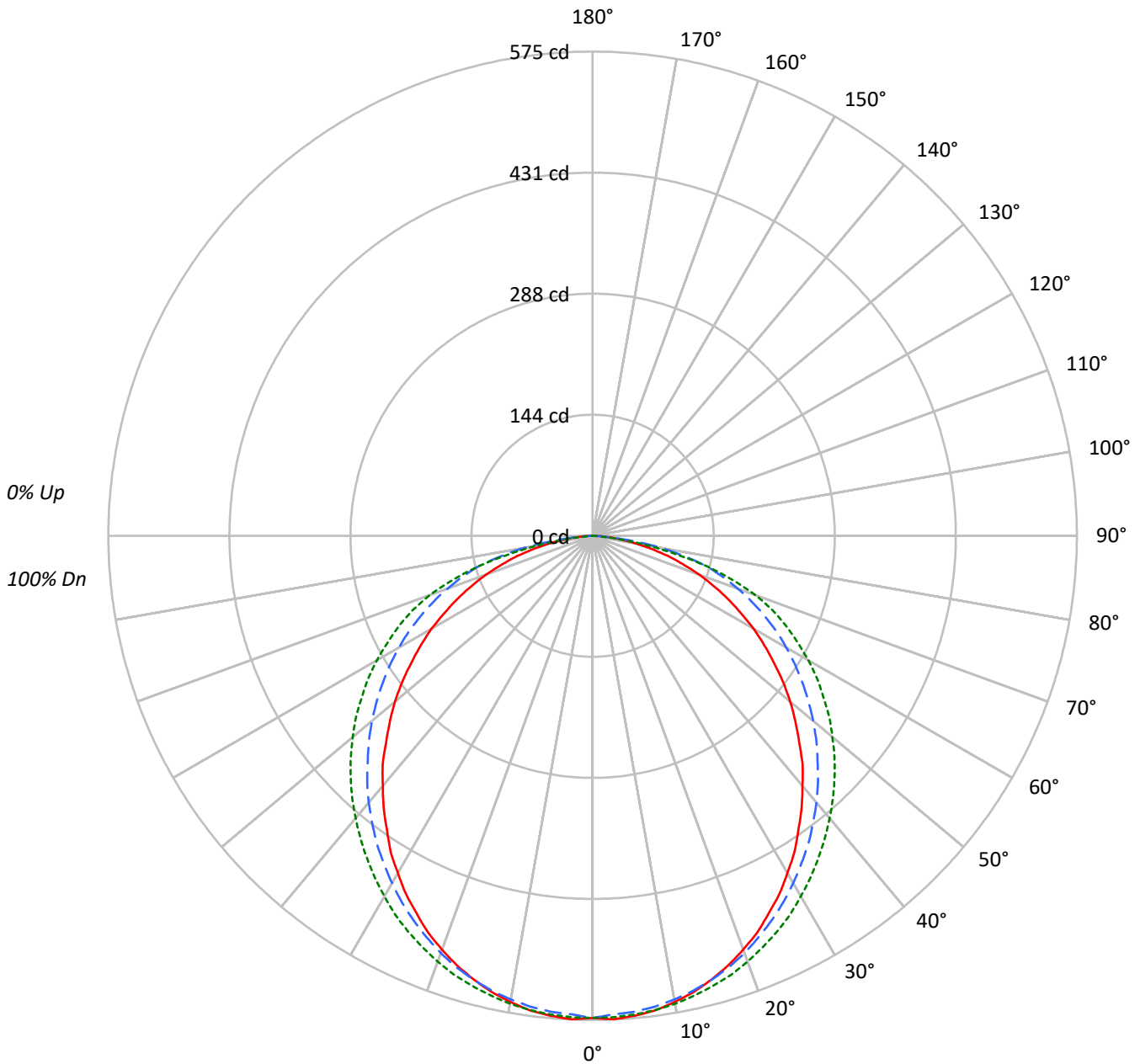
Lumens per Lamp: N/A
Luminaire Lumens: 1662.0 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
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	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°	1616	1616	1616
5°	1621	1608	1617
10°	1611	1603	1618
15°	1594	1595	1617
20°	1571	1584	1616
25°	1541	1568	1615
30°	1507	1552	1611
35°	1468	1539	1610
40°	1428	1524	1613
45°	1385	1507	1621
50°	1344	1501	1632
55°	1293	1496	1647
60°	1247	1498	1670
65°	1183	1503	1695
70°	1111	1514	1694
75°	1006	1528	1532
80°	826	1318	1089
85°	612	625	253



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.2	3.3
10°-20°	154.8	9.3
20°-30°	233.1	14.0
30°-40°	279.8	16.8
40°-50°	291.6	17.5
50°-60°	270.0	16.2
60°-70°	218.1	13.1
70°-80°	133.0	8.0
80°-90°	27.5	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°	442.1	26.6
0°-40°	721.9	43.4
0°-60°	1283.5	77.2
0°-90°	1662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1662.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	573	573	573	573	573	
5°	572	571	567	572	571	54
15°	546	546	546	553	553	154
25°	495	498	504	516	518	228
35°	426	432	447	463	467	267
45°	347	357	378	399	406	268
55°	263	276	304	328	335	235
65°	177	195	225	248	254	175
75°	92	113	140	142	140	97
85°	19	28	19	11	8	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	572.6	572.6	572.6	572.6	572.6
2.5°	574.8	573.0	568.9	573.0	572.2
5°	572.2	570.7	567.4	571.5	570.7
7.5°	568.5	567.0	564.0	568.9	568.1
10°	562.2	561.5	559.2	564.8	564.4
12.5°	554.8	554.4	553.3	559.6	559.2
15°	545.5	545.8	545.8	553.3	553.3
17.5°	535.1	535.8	537.4	545.5	546.7
20°	522.9	524.4	527.4	536.7	538.1
22.5°	510.3	511.5	515.8	527.0	528.5
25°	494.7	497.7	503.6	516.3	518.5
27.5°	479.9	482.5	490.6	503.6	507.4
30°	462.5	466.6	476.3	490.3	494.4
32.5°	445.9	450.2	461.4	477.7	481.4
35°	425.9	432.5	446.6	462.9	467.3
37.5°	407.7	413.9	429.9	447.7	452.9
40°	387.6	395.5	413.6	432.5	437.7
42.5°	369.1	376.5	396.2	415.5	422.5
45°	346.9	357.3	377.6	398.7	406.2
47.5°	326.5	336.9	360.3	382.8	389.5
50°	306.1	317.2	341.7	365.1	371.7
52.5°	285.0	296.9	323.1	346.5	354.3
55°	262.7	276.5	303.9	327.6	334.6
57.5°	241.6	255.7	285.0	309.0	316.1
60°	220.9	235.4	265.4	288.3	295.8
62.5°	197.9	215.0	246.1	268.6	274.2
65°	177.1	194.6	225.0	247.5	253.8
67.5°	155.3	174.2	204.6	225.3	231.3
70°	134.6	154.2	183.4	202.7	205.3
72.5°	112.3	132.3	161.9	174.2	174.2
75°	92.2	112.6	140.1	142.3	140.5
77.5°	70.4	93.0	110.8	106.3	101.9
80°	50.8	73.1	81.1	73.1	67.0
82.5°	34.1	53.0	48.9	38.9	34.5
85°	18.9	28.2	19.3	10.7	7.8
87.5°	7.0	6.3	1.8	1.8	1.8
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)