

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: P732509

Luminaire Tested: **14FCZ2-20-S-B2750-W2D-CP375-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732509
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: 14FCZ2-20-S-B2750-W2D-CP375-4000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND SMOOTH LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

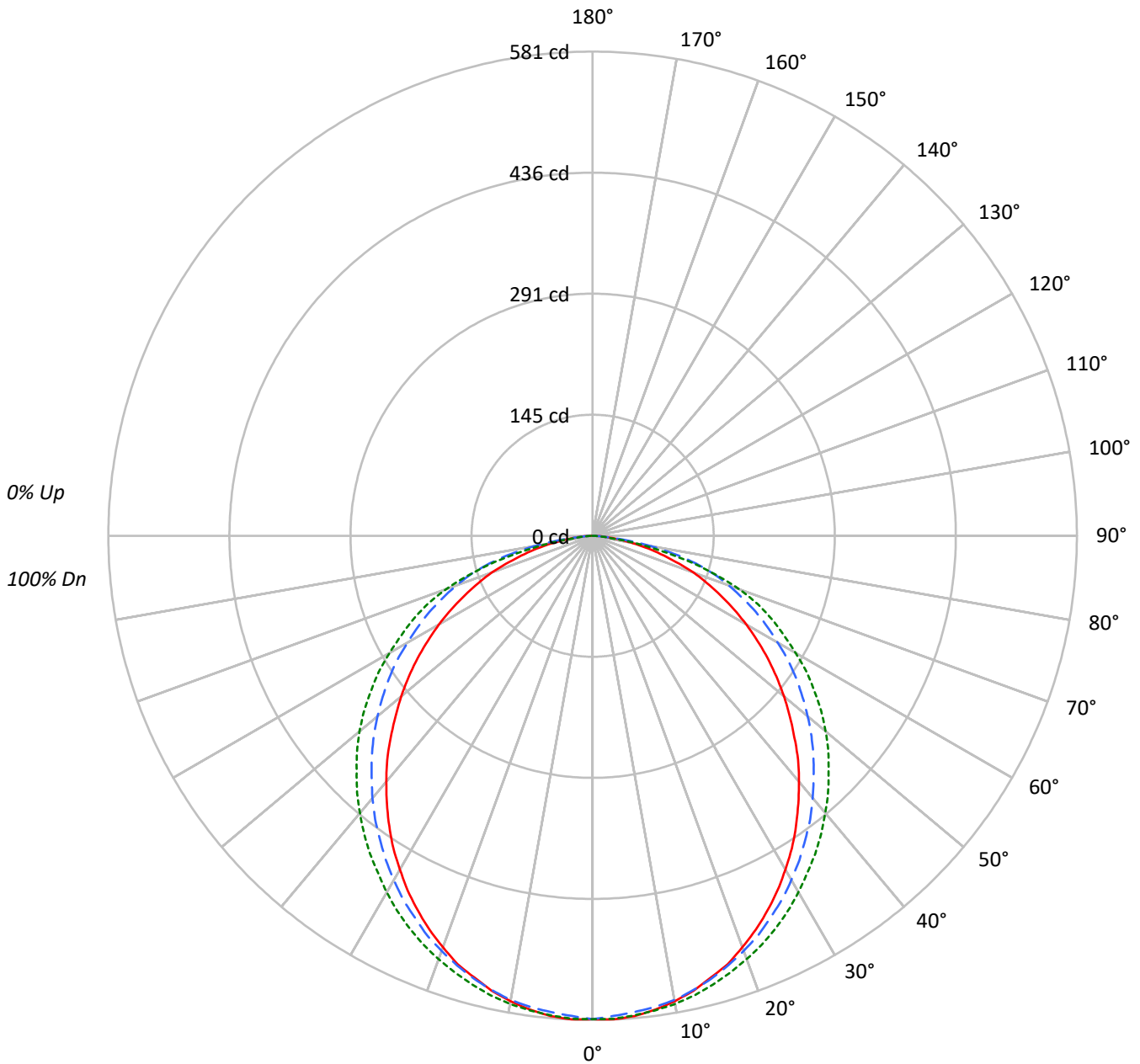
Lumens per Lamp: N/A
Luminaire Lumens: 1625.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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									
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°	1637	1637	1637
5°	1639	1626	1637
10°	1626	1621	1635
15°	1603	1608	1629
20°	1578	1592	1624
25°	1546	1573	1619
30°	1507	1554	1610
35°	1466	1533	1605
40°	1419	1514	1600
45°	1367	1496	1598
50°	1316	1479	1603
55°	1261	1467	1598
60°	1201	1446	1587
65°	1130	1442	1588
70°	1064	1430	1542
75°	923	1397	1317
80°	746	1126	878
85°	496	389	262



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	3.4
10°-20°	155.9	9.6
20°-30°	233.8	14.4
30°-40°	278.9	17.2
40°-50°	288.4	17.7
50°-60°	263.3	16.2
60°-70°	207.2	12.7
70°-80°	120.6	7.4
80°-90°	22.2	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°	444.5	27.4
0°-40°	723.4	44.5
0°-60°	1275.0	78.5
0°-90°	1625.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1625.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	580	580	580	580	580	
5°	578	577	574	578	578	55
15°	549	550	550	558	558	155
25°	496	499	505	517	520	228
35°	425	431	445	462	466	266
45°	342	354	375	396	400	264
55°	256	270	298	320	325	229
65°	169	187	216	233	238	168
75°	85	105	128	126	121	90
85°	15	22	12	10	8	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	580.1	580.1	580.1	580.1	580.1
2.5°	580.9	579.3	576.8	580.9	580.1
5°	578.5	576.8	573.7	578.5	577.6
7.5°	573.7	572.0	570.4	575.3	574.5
10°	567.2	566.4	565.6	571.2	570.4
12.5°	559.2	559.2	558.4	564.8	564.8
15°	548.7	549.5	550.3	557.5	557.5
17.5°	539.0	538.2	540.6	548.7	549.5
20°	525.3	526.9	530.1	539.8	540.6
22.5°	511.6	513.3	518.9	528.6	530.9
25°	496.3	498.8	505.2	517.2	519.7
27.5°	480.2	483.5	492.2	505.2	507.5
30°	462.4	467.3	476.9	491.4	493.9
32.5°	444.8	449.6	461.6	476.1	479.4
35°	425.4	431.0	444.8	461.6	465.7
37.5°	405.3	412.5	428.7	445.5	450.4
40°	385.1	393.2	410.9	428.7	434.3
42.5°	365.0	373.1	392.3	412.5	418.2
45°	342.4	353.7	374.7	395.6	400.4
47.5°	320.7	332.8	356.1	377.0	383.5
50°	299.7	311.8	336.7	358.6	365.0
52.5°	278.0	290.8	317.4	340.0	345.6
55°	256.2	269.9	298.1	319.9	324.7
57.5°	234.5	249.0	278.0	298.9	304.6
60°	212.8	228.1	256.2	277.1	281.2
62.5°	190.9	207.0	236.0	254.6	258.7
65°	169.2	186.9	215.9	232.9	237.7
67.5°	148.3	166.0	194.2	210.3	214.3
70°	128.9	145.0	173.3	185.3	186.9
72.5°	104.7	124.9	152.2	158.7	154.7
75°	84.6	104.7	128.1	125.7	120.8
77.5°	64.5	84.6	99.9	91.8	85.4
80°	45.9	66.0	69.3	57.2	54.0
82.5°	29.8	45.9	38.7	29.8	24.2
85°	15.3	21.7	12.0	9.7	8.1
87.5°	4.8	3.3	1.6	1.6	0.8
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)