

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: P732429

Luminaire Tested: **14FCZ2-20-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732429
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-CP250-4000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RIBBED LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

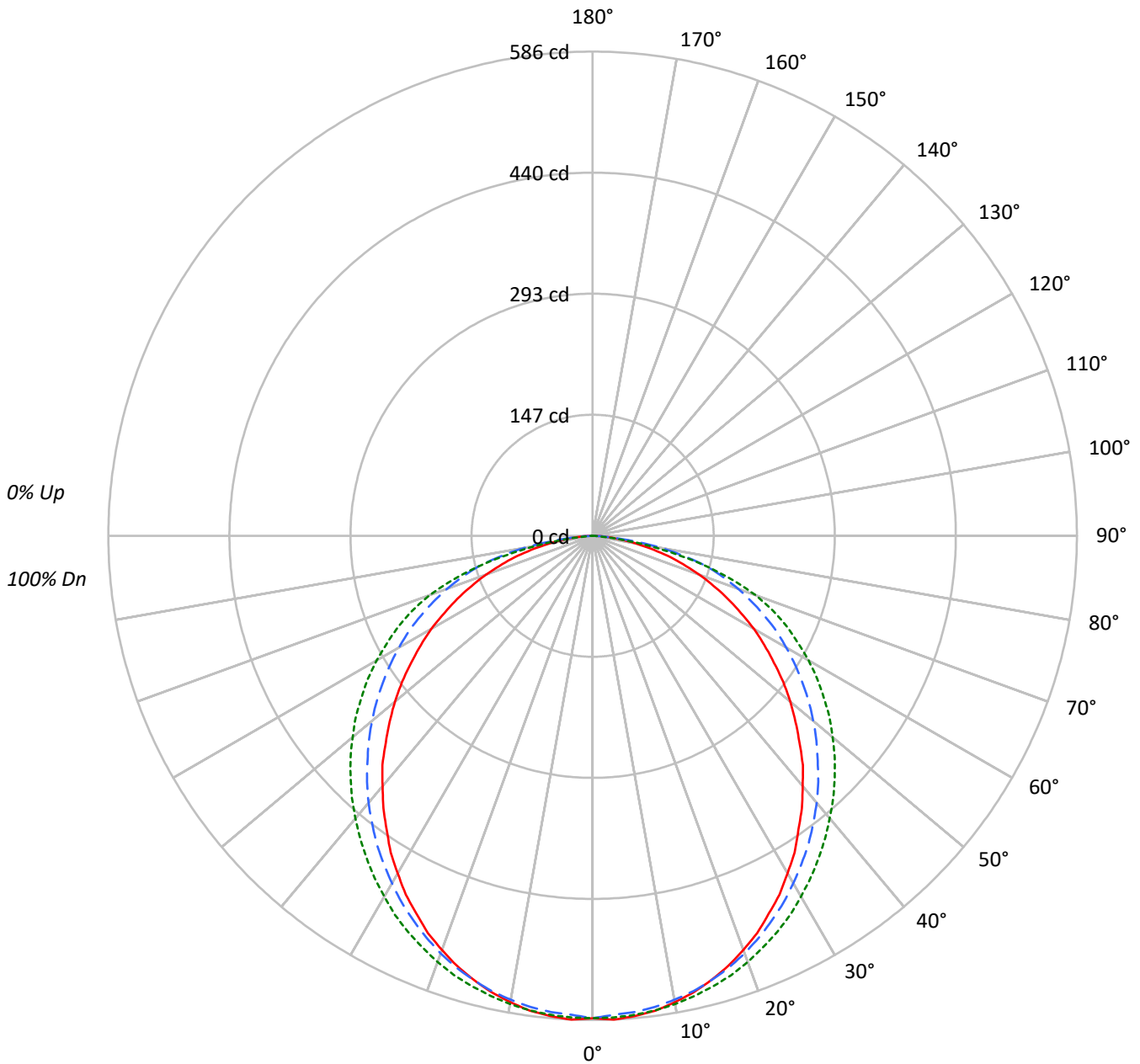
Lumens per Lamp: N/A
Luminaire Lumens: 1695.0 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1648	1648	1648
5°	1653	1639	1649
10°	1643	1635	1650
15°	1626	1627	1649
20°	1602	1615	1649
25°	1572	1600	1647
30°	1537	1583	1643
35°	1497	1569	1642
40°	1457	1554	1645
45°	1412	1537	1653
50°	1371	1530	1665
55°	1318	1526	1680
60°	1272	1528	1703
65°	1206	1532	1729
70°	1132	1544	1728
75°	1026	1558	1563
80°	842	1344	1112
85°	622	638	256



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	3.3
10°-20°	157.8	9.3
20°-30°	237.8	14.0
30°-40°	285.3	16.8
40°-50°	297.4	17.5
50°-60°	275.3	16.2
60°-70°	222.4	13.1
70°-80°	135.6	8.0
80°-90°	28.0	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°	450.9	26.6
0°-40°	736.2	43.4
0°-60°	1308.9	77.2
0°-90°	1695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1695.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	584	584	584	584	584	
5°	584	582	579	583	582	55
15°	556	557	557	564	564	157
25°	505	508	514	526	529	233
35°	434	441	455	472	477	272
45°	354	364	385	407	414	273
55°	268	282	310	334	341	240
65°	181	198	229	252	259	179
75°	94	115	143	145	143	99
85°	19	29	20	11	8	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	583.9	583.9	583.9	583.9	583.9
2.5°	586.2	584.4	580.2	584.4	583.5
5°	583.5	582.1	578.6	582.8	582.1
7.5°	579.8	578.2	575.2	580.2	579.4
10°	573.3	572.6	570.3	576.0	575.6
12.5°	565.8	565.4	564.3	570.7	570.3
15°	556.4	556.7	556.7	564.3	564.3
17.5°	545.8	546.5	548.0	556.4	557.5
20°	533.3	534.8	537.8	547.3	548.8
22.5°	520.5	521.6	526.1	537.4	539.0
25°	504.6	507.6	513.6	526.5	528.8
27.5°	489.5	492.1	500.4	513.6	517.5
30°	471.7	475.8	485.7	500.1	504.2
32.5°	454.7	459.2	470.5	487.2	490.9
35°	434.3	441.1	455.4	472.1	476.6
37.5°	415.8	422.1	438.5	456.6	461.9
40°	395.3	403.3	421.8	441.1	446.4
42.5°	376.5	384.0	404.0	423.7	430.9
45°	353.8	364.4	385.1	406.6	414.2
47.5°	333.0	343.6	367.4	390.4	397.3
50°	312.2	323.5	348.5	372.3	379.1
52.5°	290.6	302.8	329.5	353.4	361.4
55°	267.9	282.0	310.0	334.1	341.3
57.5°	246.4	260.8	290.6	315.2	322.4
60°	225.3	240.0	270.6	294.1	301.6
62.5°	201.9	219.2	251.0	274.0	279.7
65°	180.6	198.4	229.4	252.4	258.9
67.5°	158.4	177.6	208.6	229.7	235.9
70°	137.2	157.2	187.1	206.8	209.4
72.5°	114.6	135.0	165.1	177.6	177.6
75°	94.1	114.9	142.9	145.2	143.3
77.5°	71.8	94.9	113.0	108.4	103.9
80°	51.8	74.5	82.7	74.5	68.4
82.5°	34.8	54.0	49.8	39.6	35.2
85°	19.2	28.7	19.7	10.9	7.9
87.5°	7.2	6.5	1.9	1.9	1.9
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)