

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: P732435

Luminaire Tested: **14FCZ2-20-B2750-W2D-CP375-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732435
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-CP375-5000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RIBBED LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

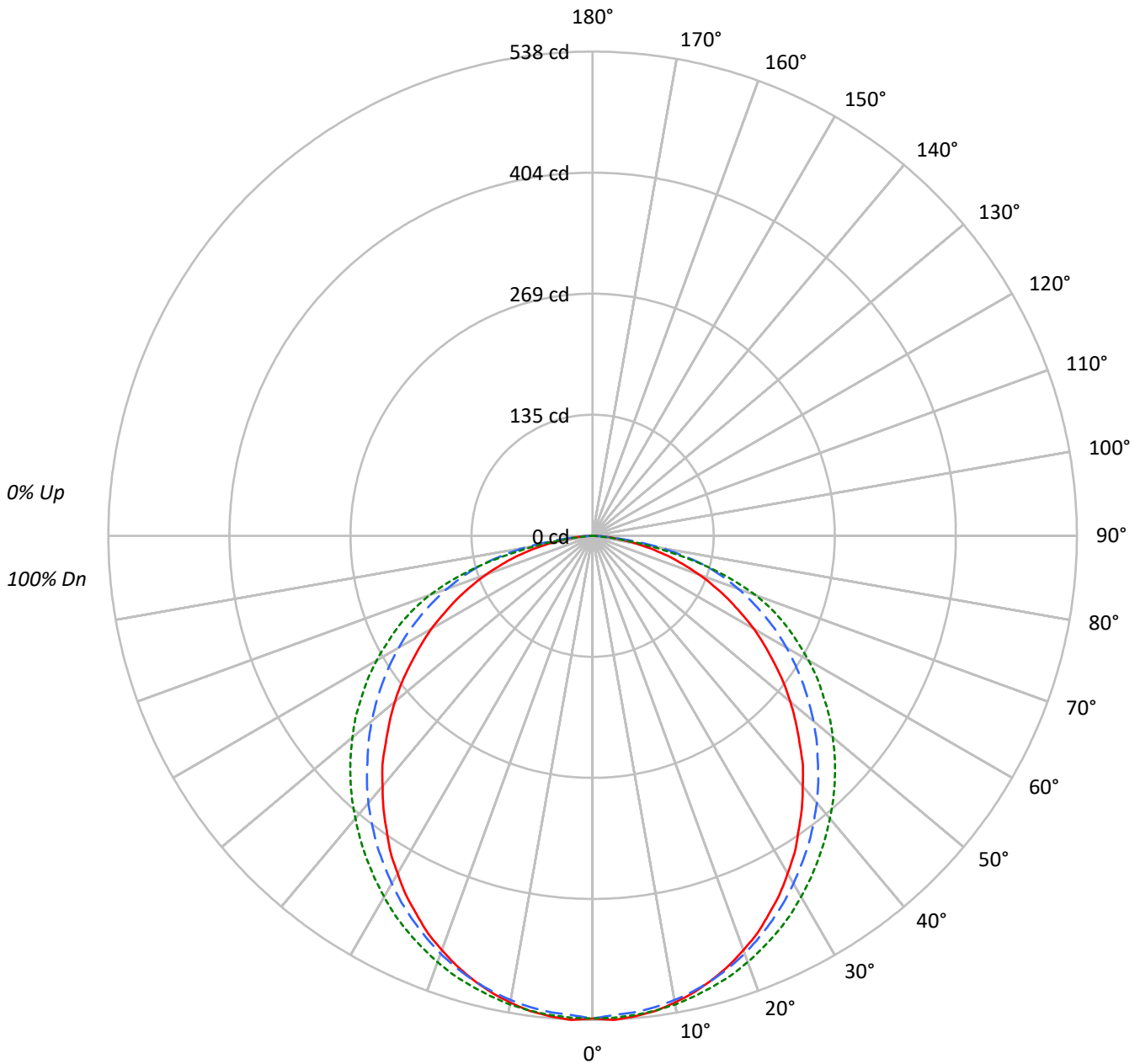
Lumens per Lamp: N/A
Luminaire Lumens: 1557.0 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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°	1514	1514	1514
5°	1519	1506	1515
10°	1510	1502	1516
15°	1494	1494	1515
20°	1472	1484	1514
25°	1444	1469	1513
30°	1412	1454	1510
35°	1375	1442	1509
40°	1338	1428	1511
45°	1297	1412	1519
50°	1259	1406	1529
55°	1211	1401	1543
60°	1168	1403	1564
65°	1108	1408	1588
70°	1041	1419	1587
75°	942	1431	1435
80°	774	1235	1021
85°	573	586	236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	3.3
10°-20°	145.0	9.3
20°-30°	218.4	14.0
30°-40°	262.1	16.8
40°-50°	273.2	17.5
50°-60°	252.9	16.2
60°-70°	204.3	13.1
70°-80°	124.6	8.0
80°-90°	25.7	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°	414.2	26.6
0°-40°	676.3	43.4
0°-60°	1202.4	77.2
0°-90°	1557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1557.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	536	536	536	536	536	
5°	536	535	532	535	535	51
15°	511	511	511	518	518	144
25°	464	466	472	484	486	214
35°	399	405	418	434	438	250
45°	325	335	354	374	380	251
55°	246	259	285	307	314	221
65°	166	182	211	232	238	164
75°	86	106	131	133	132	91
85°	18	26	18	10	7	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	536.4	536.4	536.4	536.4	536.4
2.5°	538.5	536.8	533.0	536.8	536.0
5°	536.0	534.7	531.5	535.3	534.7
7.5°	532.6	531.1	528.4	533.0	532.2
10°	526.7	526.0	523.9	529.1	528.8
12.5°	519.8	519.4	518.3	524.3	523.9
15°	511.1	511.4	511.4	518.3	518.3
17.5°	501.3	502.0	503.4	511.1	512.1
20°	489.9	491.3	494.1	502.8	504.1
22.5°	478.1	479.1	483.3	493.7	495.1
25°	463.5	466.2	471.8	483.6	485.7
27.5°	449.6	452.0	459.6	471.8	475.3
30°	433.3	437.1	446.2	459.4	463.2
32.5°	417.7	421.8	432.2	447.5	451.0
35°	399.0	405.2	418.4	433.7	437.8
37.5°	381.9	387.8	402.8	419.4	424.3
40°	363.1	370.5	387.5	405.2	410.0
42.5°	345.8	352.7	371.1	389.2	395.8
45°	325.0	334.7	353.7	373.5	380.5
47.5°	305.9	315.6	337.5	358.6	364.9
50°	286.7	297.2	320.1	342.0	348.2
52.5°	267.0	278.1	302.7	324.6	332.0
55°	246.1	259.0	284.7	306.9	313.5
57.5°	226.3	239.5	267.0	289.5	296.1
60°	206.9	220.5	248.6	270.1	277.1
62.5°	185.4	201.4	230.5	251.7	256.9
65°	165.9	182.3	210.8	231.9	237.8
67.5°	145.5	163.2	191.6	211.0	216.7
70°	126.1	144.4	171.9	189.9	192.3
72.5°	105.2	124.0	151.7	163.2	163.2
75°	86.4	105.5	131.2	133.3	131.6
77.5°	66.0	87.2	103.8	99.6	95.5
80°	47.6	68.4	76.0	68.4	62.8
82.5°	31.9	49.6	45.8	36.4	32.3
85°	17.7	26.4	18.1	10.0	7.3
87.5°	6.6	5.9	1.7	1.7	1.7
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)