

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: P732458

Luminaire Tested: **14FCZ2-20-HRP-B2750-W2D-CP375-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732458  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294787)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-20-HRP-B2750-W2D-CP375-3500K  
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND HRP LENS, WITH, CP375 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

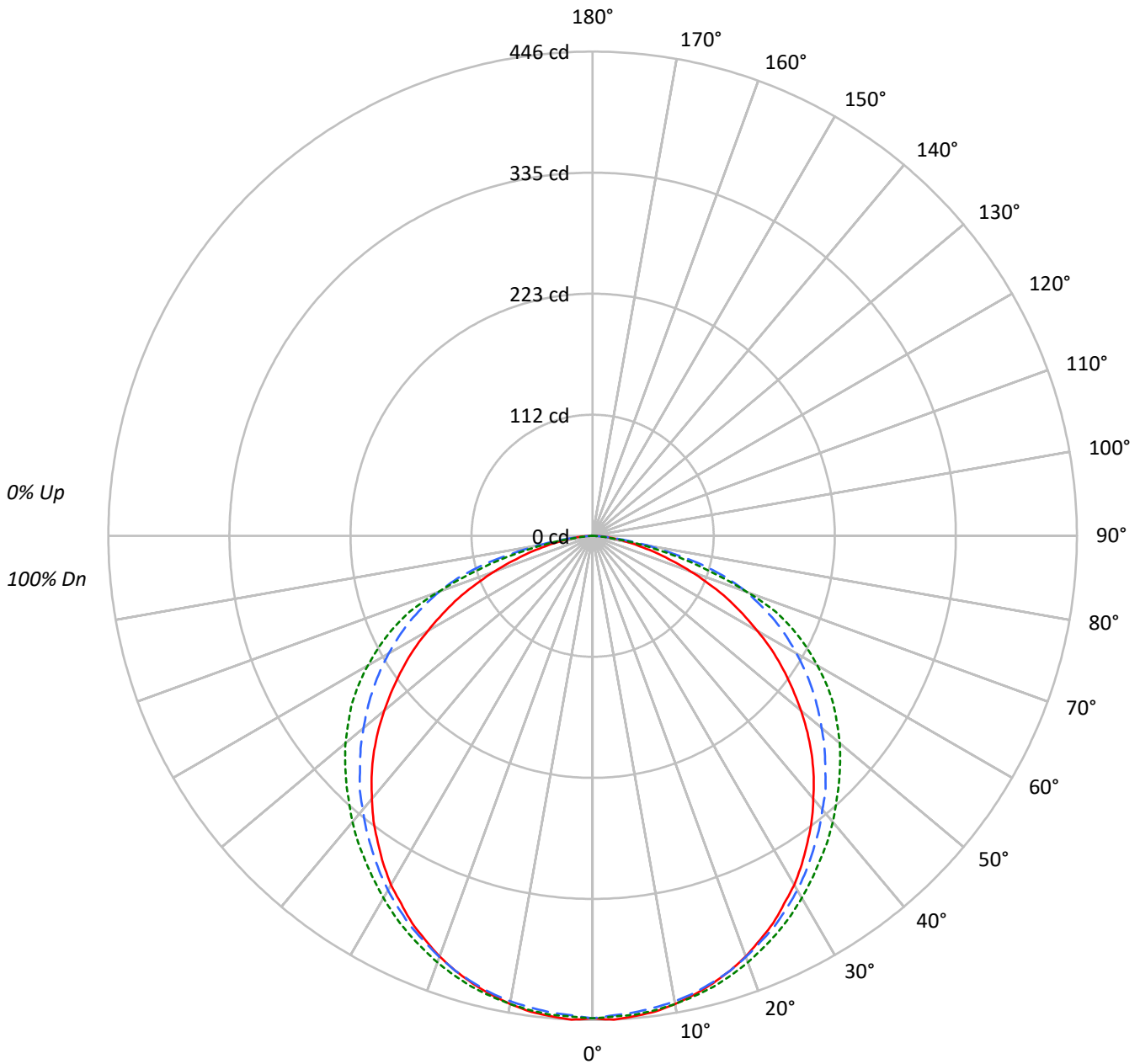
Lumens per Lamp: N/A  
Luminaire Lumens: 1309.0 lumens  
Efficiency: N/A  
Efficacy: 81.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 16  
Input Voltage (V): NR  
Input Current (Ain): 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	93	91	88	90	88	86	84																			
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37																			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33																			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	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	38	31	26	37	30	26	37	30	25	36	30	25	24																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1255	1255	1255
5°	1259	1249	1255
10°	1255	1248	1255
15°	1248	1245	1257
20°	1239	1240	1256
25°	1226	1236	1256
30°	1210	1229	1256
35°	1188	1220	1258
40°	1165	1213	1268
45°	1140	1209	1281
50°	1100	1209	1305
55°	1054	1216	1333
60°	990	1224	1350
65°	913	1237	1358
70°	796	1240	1250
75°	655	1154	1010
80°	515	829	676
85°	402	321	159



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.1	3.2
10°-20°	120.8	9.2
20°-30°	183.4	14.0
30°-40°	222.2	17.0
40°-50°	234.2	17.9
50°-60°	218.6	16.7
60°-70°	174.7	13.3
70°-80°	96.1	7.3
80°-90°	17.0	1.3
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°	346.2	26.5
0°-40°	568.4	43.4
0°-60°	1021.2	78.0
0°-90°	1309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1309.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	444	444	444	444	444	
5°	444	443	441	444	443	42
15°	427	427	426	430	430	120
25°	394	394	397	402	403	181
35°	345	348	354	363	365	216
45°	286	291	303	317	321	220
55°	214	225	247	264	271	191
65°	137	154	185	200	203	135
75°	60	86	106	95	93	65
85°	12	16	10	6	5	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	444.5	444.5	444.5	444.5	444.5
2.5°	446.2	444.9	442.1	444.5	443.3
5°	444.2	442.9	440.8	443.8	442.9
7.5°	442.1	440.4	438.3	441.7	440.8
10°	437.9	436.7	435.5	438.3	437.9
12.5°	433.0	432.6	431.4	434.7	434.3
15°	426.9	426.9	426.1	430.1	430.1
17.5°	420.2	419.8	420.2	424.8	424.4
20°	412.4	412.4	412.8	418.2	418.2
22.5°	402.9	403.3	404.6	411.2	410.7
25°	393.6	394.3	396.8	402.5	403.3
27.5°	382.0	384.1	386.9	393.9	394.7
30°	371.3	372.5	377.0	383.7	385.2
32.5°	358.6	360.9	365.9	373.3	375.4
35°	344.9	348.2	354.0	363.0	365.1
37.5°	331.4	334.3	342.1	351.5	355.2
40°	316.2	321.0	329.3	340.0	344.1
42.5°	301.3	306.3	317.4	328.4	332.2
45°	285.6	291.0	302.9	316.6	321.0
47.5°	268.3	274.6	289.8	304.2	309.1
50°	250.6	258.4	275.3	291.5	297.2
52.5°	232.2	242.0	261.4	278.2	283.7
55°	214.1	224.7	247.0	264.3	270.8
57.5°	195.5	207.1	232.2	251.9	255.6
60°	175.3	189.4	216.9	234.2	239.2
62.5°	155.6	171.7	201.3	217.7	221.9
65°	136.7	154.0	185.2	200.4	203.3
67.5°	116.0	136.7	167.5	181.6	182.3
70°	96.4	120.2	150.2	156.8	151.5
72.5°	77.0	102.5	130.1	124.7	120.2
75°	60.1	86.0	105.8	95.1	92.6
77.5°	44.5	70.4	75.7	70.0	65.4
80°	31.7	55.5	51.0	43.6	41.6
82.5°	21.8	35.0	28.0	21.8	19.0
85°	12.4	15.6	9.9	6.1	4.9
87.5°	5.3	3.8	2.1	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)