

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: P733956

Luminaire Tested: **24FCZ2-30-HRP-B2750-W2D-CP375-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P733956  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P295011)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24FCZ2-30-HRP-B2750-W2D-CP375-2700K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND HRP LENS, WITH, CP375 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

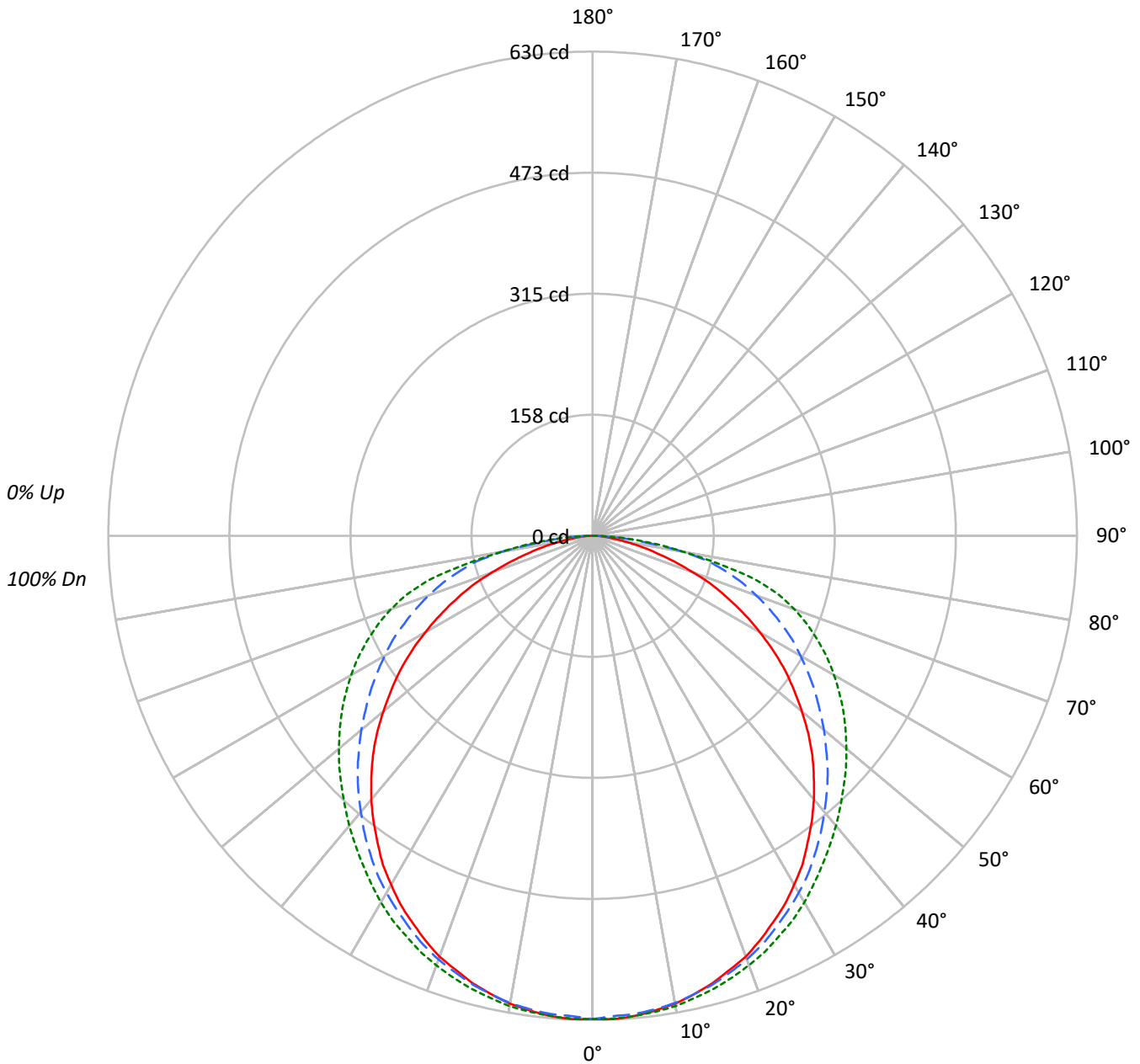
Lumens per Lamp: N/A  
Luminaire Lumens: 1938.0 lumens  
Efficiency: N/A  
Efficacy: 84.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 23  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36																			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23																			

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

	0°	45°	90°
0°	887	887	887
5°	889	885	889
10°	886	885	891
15°	881	883	891
20°	875	881	893
25°	864	877	894
30°	854	874	898
35°	840	870	899
40°	825	864	907
45°	807	863	921
50°	780	862	946
55°	752	868	980
60°	710	882	1024
65°	656	902	1081
70°	573	934	1152
75°	465	982	1190
80°	342	963	963
85°	264	709	802



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.6	3.1
10°-20°	171.0	8.8
20°-30°	260.4	13.4
30°-40°	316.2	16.3
40°-50°	334.1	17.2
50°-60°	315.2	16.3
60°-70°	262.1	13.5
70°-80°	172.4	8.9
80°-90°	47.0	2.4
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°	491.0	25.3
0°-40°	807.2	41.7
0°-60°	1456.5	75.2
0°-90°	1938.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1938.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	629	629	629	629	629	
5°	627	627	625	627	627	60
15°	603	604	604	610	610	170
25°	555	558	563	573	574	256
35°	488	493	505	518	522	305
45°	404	412	432	454	462	311
55°	306	319	353	386	398	272
65°	196	219	270	310	324	194
75°	85	124	180	213	218	92
85°	16	36	44	49	50	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	628.8	628.8	628.8	628.8	628.8
2.5°	629.6	628.8	625.5	628.8	628.8
5°	627.2	627.2	624.7	627.2	627.2
7.5°	623.1	623.1	621.5	624.7	624.7
10°	618.3	618.3	617.4	621.5	621.5
12.5°	610.9	611.8	610.9	615.8	615.8
15°	602.8	603.6	604.4	610.1	610.1
17.5°	592.3	593.9	595.5	602.0	602.8
20°	582.6	583.4	586.6	593.9	594.7
22.5°	569.5	572.0	576.0	583.4	585.8
25°	555.0	558.2	563.1	572.8	574.4
27.5°	541.1	543.6	550.0	560.6	563.9
30°	524.2	528.2	536.3	546.8	550.8
32.5°	507.9	511.9	521.7	533.1	536.3
35°	487.6	493.3	504.7	517.6	521.7
37.5°	468.2	473.8	487.6	502.2	507.1
40°	447.8	454.3	469.0	486.0	492.5
42.5°	425.9	434.9	451.1	469.8	477.1
45°	404.1	412.2	432.5	453.5	461.6
47.5°	380.5	390.2	412.2	437.3	447.0
50°	355.4	367.5	392.7	420.3	430.8
52.5°	330.2	344.0	372.3	403.3	414.6
55°	305.8	318.9	352.9	386.2	398.3
57.5°	279.1	295.3	332.6	368.3	380.5
60°	251.5	269.4	312.3	349.7	362.6
62.5°	224.0	244.2	292.9	330.2	344.0
65°	196.4	219.0	270.2	309.9	323.7
67.5°	169.6	194.8	249.0	288.9	302.6
70°	138.8	170.4	226.4	265.3	279.1
72.5°	110.4	146.9	204.5	241.0	253.1
75°	85.2	124.1	180.1	213.4	218.2
77.5°	62.5	101.4	154.9	166.4	167.2
80°	42.1	81.2	118.5	116.8	118.5
82.5°	27.6	60.8	74.7	83.6	84.4
85°	16.3	35.7	43.8	48.7	49.5
87.5°	8.1	12.1	15.5	16.3	17.9
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)