

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: P733960

Luminaire Tested: **24FCZ2-30-HRP-B2750-W2D-CP375-5000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P733960  
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-CP375-5000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND HRP LENS, WITH, CP375 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

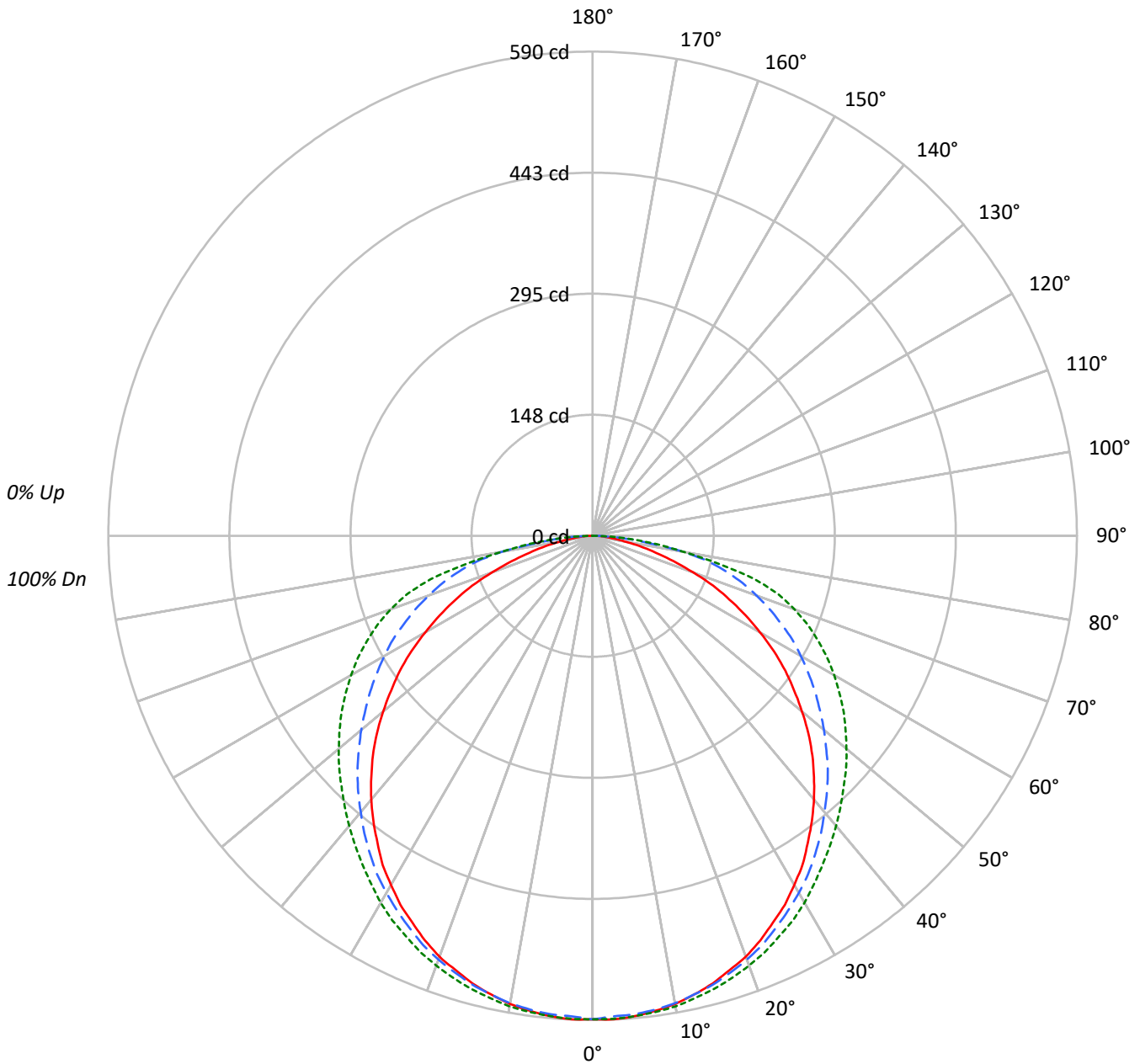
Lumens per Lamp: N/A  
Luminaire Lumens: 1816.0 lumens  
Efficiency: N/A  
Efficacy: 79.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	832	832	832
5°	833	829	833
10°	830	829	835
15°	825	828	835
20°	820	825	837
25°	810	822	838
30°	800	819	841
35°	787	815	842
40°	773	810	850
45°	756	809	863
50°	731	808	886
55°	705	814	919
60°	665	826	959
65°	614	846	1013
70°	536	875	1079
75°	435	920	1115
80°	321	902	902
85°	246	666	751



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.8	3.1
10°-20°	160.3	8.8
20°-30°	244.0	13.4
30°-40°	296.3	16.3
40°-50°	313.0	17.2
50°-60°	295.4	16.3
60°-70°	245.6	13.5
70°-80°	161.6	8.9
80°-90°	44.1	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°	460.1	25.3
0°-40°	756.4	41.7
0°-60°	1364.8	75.2
0°-90°	1816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1816.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	589	589	589	589	589	
5°	588	588	585	588	588	56
15°	565	566	566	572	572	159
25°	520	523	528	537	538	240
35°	457	462	473	485	489	286
45°	379	386	405	425	433	292
55°	287	299	331	362	373	255
65°	184	205	253	290	303	182
75°	80	116	169	200	204	86
85°	15	34	41	46	46	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	589.2	589.2	589.2	589.2	589.2
2.5°	590.0	589.2	586.1	589.2	589.2
5°	587.7	587.7	585.4	587.7	587.7
7.5°	583.9	583.9	582.4	585.4	585.4
10°	579.4	579.4	578.5	582.4	582.4
12.5°	572.5	573.2	572.5	577.0	577.0
15°	564.9	565.6	566.4	571.7	571.7
17.5°	555.0	556.5	558.0	564.1	564.9
20°	545.9	546.6	549.6	556.5	557.3
22.5°	533.7	536.0	539.8	546.6	548.9
25°	520.0	523.0	527.6	536.8	538.3
27.5°	507.1	509.4	515.4	525.3	528.4
30°	491.2	494.9	502.5	512.4	516.2
32.5°	475.9	479.7	488.8	499.5	502.5
35°	456.9	462.2	472.9	485.1	488.8
37.5°	438.7	444.0	456.9	470.6	475.2
40°	419.6	425.7	439.5	455.4	461.5
42.5°	399.1	407.5	422.7	440.2	447.1
45°	378.6	386.2	405.2	425.0	432.6
47.5°	356.5	365.6	386.2	409.7	418.9
50°	333.0	344.4	368.0	393.9	403.7
52.5°	309.4	322.3	348.9	377.9	388.5
55°	286.6	298.8	330.7	361.9	373.3
57.5°	261.6	276.7	311.7	345.1	356.5
60°	235.7	252.4	292.7	327.7	339.8
62.5°	209.9	228.8	274.4	309.4	322.3
65°	184.0	205.2	253.2	290.4	303.3
67.5°	158.9	182.5	233.4	270.7	283.6
70°	130.0	159.6	212.1	248.6	261.6
72.5°	103.4	137.6	191.6	225.8	237.2
75°	79.8	116.3	168.8	200.0	204.5
77.5°	58.6	95.1	145.2	155.9	156.6
80°	39.5	76.1	111.0	109.4	111.0
82.5°	25.9	57.0	70.0	78.3	79.1
85°	15.2	33.5	41.1	45.6	46.4
87.5°	7.6	11.4	14.5	15.2	16.7
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)