

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: P733955

Luminaire Tested: **24FCZ2-30-HRP-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P733955  
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-CP250-5000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND HRP LENS, WITH, CP250 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

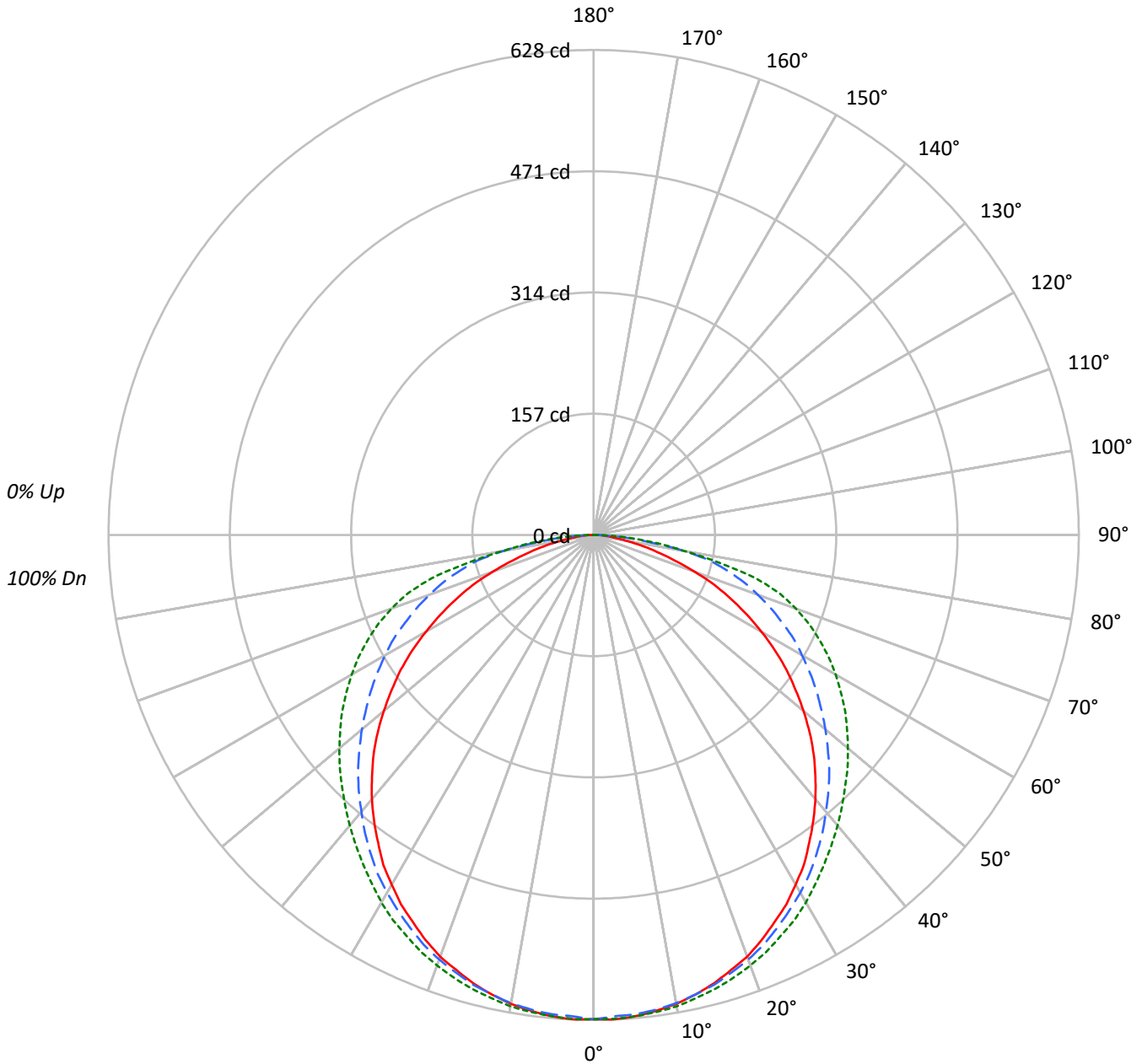
Lumens per Lamp: N/A  
Luminaire Lumens: 1933.0 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	885	885	885
5°	886	883	886
10°	884	883	888
15°	879	881	889
20°	873	879	891
25°	862	875	892
30°	852	872	895
35°	838	867	896
40°	823	862	905
45°	804	861	919
50°	778	860	943
55°	750	866	978
60°	708	879	1021
65°	654	900	1078
70°	571	932	1149
75°	464	979	1187
80°	341	961	961
85°	262	708	798



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.4	3.1
10°-20°	170.6	8.8
20°-30°	259.7	13.4
30°-40°	315.4	16.3
40°-50°	333.2	17.2
50°-60°	314.4	16.3
60°-70°	261.4	13.5
70°-80°	172.0	8.9
80°-90°	46.9	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°	489.8	25.3
0°-40°	805.1	41.7
0°-60°	1452.7	75.2
0°-90°	1933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1933.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	627	627	627	627	627	
5°	626	626	623	626	626	59
15°	601	602	603	609	609	170
25°	554	557	562	571	573	255
35°	486	492	503	516	520	304
45°	403	411	431	452	460	310
55°	305	318	352	385	397	272
65°	196	218	270	309	323	194
75°	85	124	180	213	218	92
85°	16	36	44	48	49	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	627.2	627.2	627.2	627.2	627.2
2.5°	628.0	627.2	623.9	627.2	627.2
5°	625.6	625.6	623.1	625.6	625.6
7.5°	621.5	621.5	619.9	623.1	623.1
10°	616.7	616.7	615.8	619.9	619.9
12.5°	609.4	610.2	609.4	614.2	614.2
15°	601.3	602.1	602.9	608.6	608.6
17.5°	590.8	592.4	594.0	600.5	601.3
20°	581.1	581.9	585.1	592.4	593.2
22.5°	568.0	570.5	574.5	581.9	584.3
25°	553.5	556.7	561.6	571.3	572.9
27.5°	539.7	542.2	548.6	559.1	562.4
30°	522.8	526.8	534.9	545.4	549.4
32.5°	506.6	510.6	520.3	531.7	534.9
35°	486.4	492.0	503.4	516.3	520.3
37.5°	467.0	472.6	486.4	500.9	505.8
40°	446.6	453.2	467.8	484.8	491.2
42.5°	424.8	433.7	449.9	468.6	475.9
45°	403.0	411.1	431.3	452.4	460.5
47.5°	379.5	389.2	411.1	436.1	445.8
50°	354.5	366.6	391.7	419.2	429.7
52.5°	329.4	343.1	371.4	402.2	413.5
55°	305.0	318.0	352.0	385.2	397.3
57.5°	278.4	294.5	331.8	367.4	379.5
60°	250.9	268.7	311.5	348.8	361.7
62.5°	223.4	243.6	292.1	329.4	343.1
65°	195.9	218.5	269.5	309.1	322.9
67.5°	169.1	194.3	248.4	288.1	301.8
70°	138.4	169.9	225.8	264.6	278.4
72.5°	110.1	146.5	204.0	240.4	252.5
75°	85.0	123.8	179.6	212.9	217.7
77.5°	62.3	101.2	154.5	165.9	166.7
80°	42.0	81.0	118.2	116.5	118.2
82.5°	27.5	60.6	74.5	83.4	84.2
85°	16.2	35.6	43.7	48.5	49.3
87.5°	8.1	12.1	15.4	16.2	17.8
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)