

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: P733942

Luminaire Tested: **24FCZ2-30-HRP-B2750-W2D-CA125-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P733942  
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-CA125-3000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND HRP LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

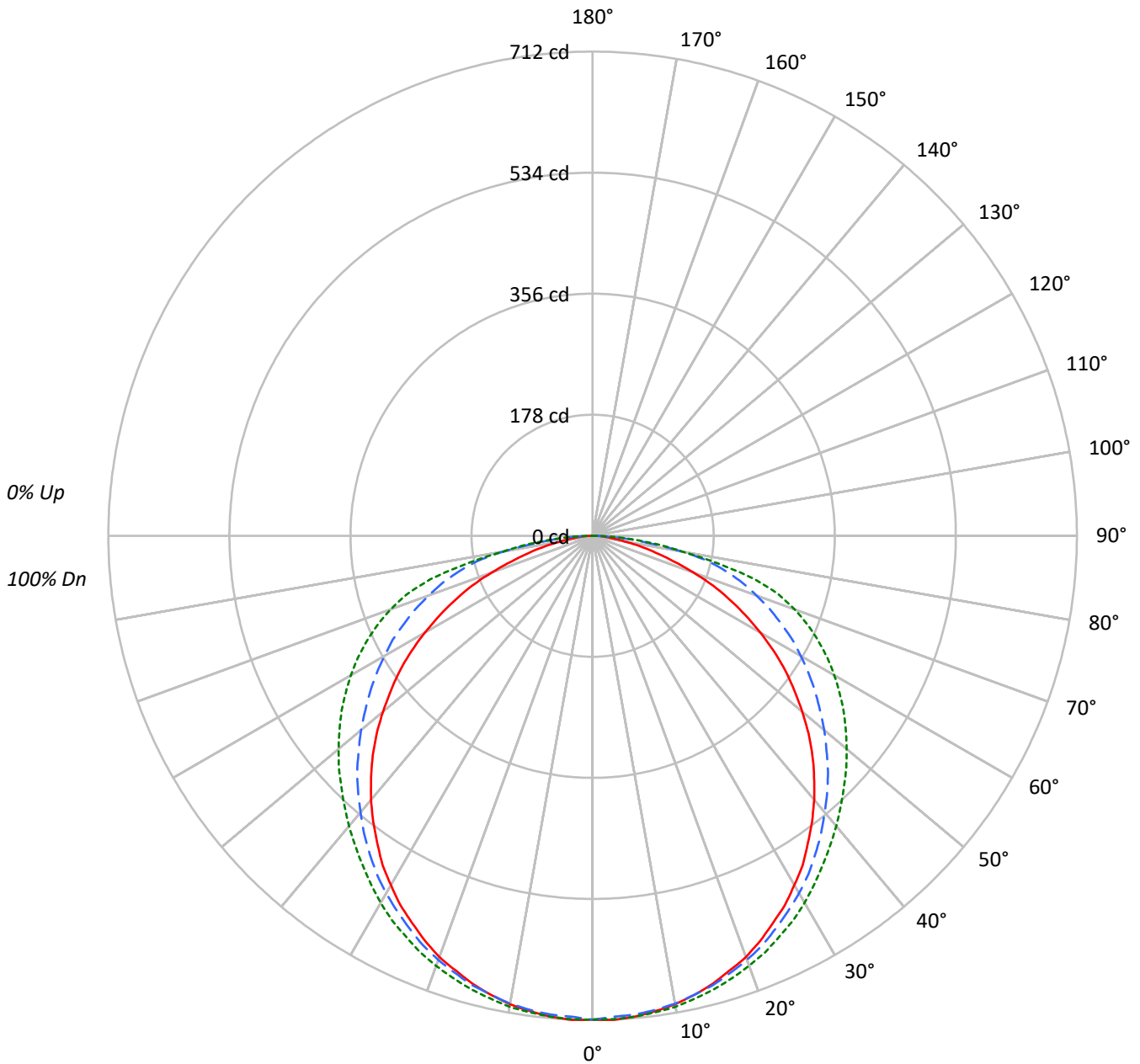
Lumens per Lamp: N/A  
Luminaire Lumens: 2193.0 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1004	1004	1004
5°	1005	1001	1005
10°	1003	1001	1008
15°	997	999	1009
20°	990	997	1011
25°	978	992	1012
30°	967	989	1016
35°	951	984	1017
40°	934	978	1027
45°	913	977	1043
50°	883	976	1070
55°	852	983	1109
60°	803	998	1158
65°	742	1021	1223
70°	648	1057	1304
75°	526	1111	1346
80°	388	1090	1090
85°	298	803	907



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.4	3.1
10°-20°	193.6	8.8
20°-30°	294.7	13.4
30°-40°	357.8	16.3
40°-50°	378.0	17.2
50°-60°	356.7	16.3
60°-70°	296.6	13.5
70°-80°	195.1	8.9
80°-90°	53.2	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°	555.6	25.3
0°-40°	913.4	41.7
0°-60°	1648.1	75.2
0°-90°	2193.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2193.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	712	712	712	712	712	
5°	710	710	707	710	710	67
15°	682	683	684	690	690	192
25°	628	632	637	648	650	290
35°	552	558	571	586	590	345
45°	457	466	489	513	522	352
55°	346	361	399	437	451	308
65°	222	248	306	351	366	220
75°	96	140	204	242	247	104
85°	18	40	50	55	56	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	711.5	711.5	711.5	711.5	711.5
2.5°	712.5	711.5	707.8	711.5	711.5
5°	709.7	709.7	706.9	709.7	709.7
7.5°	705.1	705.1	703.3	706.9	706.9
10°	699.6	699.6	698.6	703.3	703.3
12.5°	691.3	692.2	691.3	696.8	696.8
15°	682.1	683.0	684.0	690.4	690.4
17.5°	670.2	672.0	673.9	681.2	682.1
20°	659.2	660.1	663.7	672.0	672.9
22.5°	644.4	647.3	651.8	660.1	662.8
25°	628.0	631.6	637.2	648.2	650.0
27.5°	612.3	615.2	622.4	634.3	638.1
30°	593.1	597.7	606.9	618.8	623.3
32.5°	574.7	579.3	590.3	603.2	606.9
35°	551.8	558.2	571.1	585.7	590.3
37.5°	529.8	536.1	551.8	568.3	573.8
40°	506.7	514.1	530.7	550.0	557.2
42.5°	482.0	492.1	510.5	531.6	539.9
45°	457.2	466.4	489.4	513.2	522.4
47.5°	430.5	441.6	466.4	494.8	505.8
50°	402.2	415.9	444.4	475.6	487.5
52.5°	373.7	389.2	421.3	456.3	469.1
55°	346.1	360.8	399.3	437.0	450.7
57.5°	315.9	334.1	376.4	416.8	430.5
60°	284.6	304.9	353.4	395.7	410.3
62.5°	253.4	276.4	331.4	373.7	389.2
65°	222.2	247.9	305.8	350.7	366.3
67.5°	191.9	220.4	281.8	326.9	342.4
70°	157.0	192.8	256.1	300.2	315.9
72.5°	124.9	166.2	231.4	272.7	286.5
75°	96.4	140.4	203.8	241.5	246.9
77.5°	70.7	114.8	175.3	188.2	189.2
80°	47.7	91.9	134.1	132.2	134.1
82.5°	31.2	68.8	84.5	94.6	95.5
85°	18.4	40.4	49.6	55.1	56.0
87.5°	9.2	13.7	17.5	18.4	20.2
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)