

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: P734068

Luminaire Tested: **24FCZ2-30HE-HRP-B2750-W2D-CA125-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734068  
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: 24FCZ2-30HE-HRP-B2750-W2D-CA125-3500K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND HRP LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

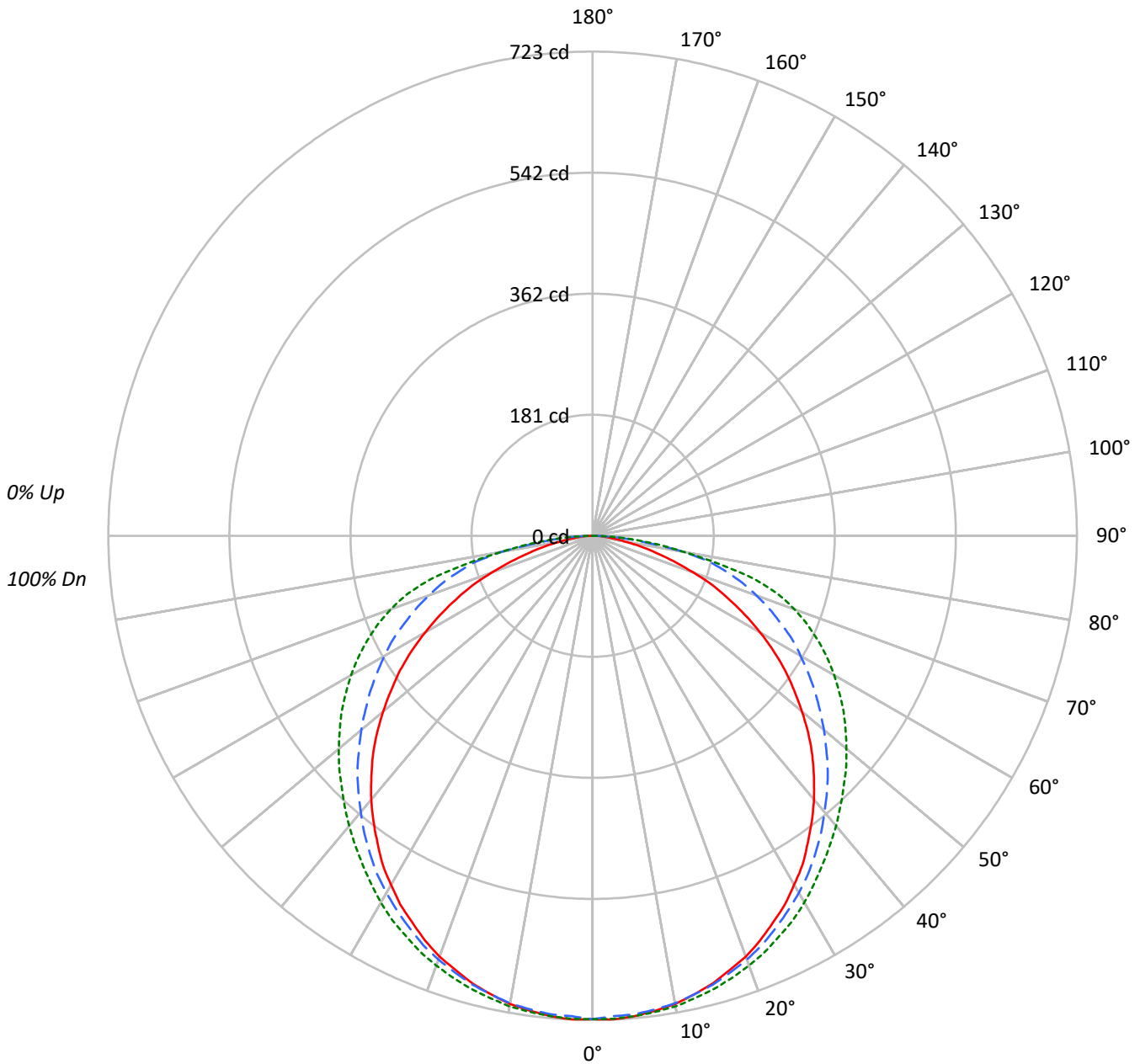
Lumens per Lamp: N/A  
Luminaire Lumens: 2225.0 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 22  
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°	1019	1019	1019
5°	1020	1016	1020
10°	1017	1016	1023
15°	1011	1014	1024
20°	1004	1011	1026
25°	992	1007	1027
30°	981	1003	1031
35°	965	998	1032
40°	947	992	1042
45°	926	991	1058
50°	896	990	1086
55°	864	997	1125
60°	815	1012	1175
65°	753	1036	1241
70°	657	1072	1323
75°	533	1128	1367
80°	393	1105	1105
85°	303	815	920



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.4	3.1
10°-20°	196.4	8.8
20°-30°	299.0	13.4
30°-40°	363.0	16.3
40°-50°	383.5	17.2
50°-60°	361.9	16.3
60°-70°	300.9	13.5
70°-80°	198.0	8.9
80°-90°	54.0	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°	563.7	25.3
0°-40°	926.7	41.7
0°-60°	1672.1	75.2
0°-90°	2225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2225.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	722	722	722	722	722	
5°	720	720	717	720	720	68
15°	692	693	694	700	700	195
25°	637	641	646	658	660	294
35°	560	566	579	594	599	350
45°	464	473	496	521	530	357
55°	351	366	405	443	457	313
65°	225	252	310	356	372	223
75°	98	142	207	245	251	105
85°	19	41	50	56	57	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	721.9	721.9	721.9	721.9	721.9
2.5°	722.9	721.9	718.1	721.9	721.9
5°	720.1	720.1	717.2	720.1	720.1
7.5°	715.4	715.4	713.5	717.2	717.2
10°	709.8	709.8	708.8	713.5	713.5
12.5°	701.4	702.3	701.4	707.0	707.0
15°	692.1	693.0	693.9	700.5	700.5
17.5°	680.0	681.8	683.7	691.2	692.1
20°	668.8	669.7	673.4	681.8	682.8
22.5°	653.9	656.7	661.3	669.7	672.5
25°	637.1	640.8	646.5	657.7	659.5
27.5°	621.2	624.1	631.5	643.6	647.4
30°	601.8	606.4	615.7	627.8	632.4
32.5°	583.1	587.7	598.9	612.0	615.7
35°	559.9	566.3	579.4	594.3	598.9
37.5°	537.5	544.0	559.9	576.6	582.2
40°	514.1	521.6	538.4	558.0	565.4
42.5°	489.0	499.3	517.9	539.3	547.8
45°	463.9	473.2	496.5	520.7	530.0
47.5°	436.8	448.0	473.2	502.0	513.2
50°	408.0	422.0	450.9	482.6	494.6
52.5°	379.1	394.9	427.5	463.0	476.0
55°	351.1	366.1	405.1	443.4	457.3
57.5°	320.5	339.0	381.9	422.9	436.8
60°	288.8	309.3	358.6	401.5	416.3
62.5°	257.1	280.4	336.3	379.1	394.9
65°	225.4	251.5	310.2	355.8	371.6
67.5°	194.7	223.6	285.9	331.6	347.4
70°	159.3	195.6	259.9	304.6	320.5
72.5°	126.7	168.6	234.8	276.7	290.6
75°	97.8	142.5	206.8	245.0	250.6
77.5°	71.8	116.5	177.9	191.0	191.9
80°	48.4	93.2	136.0	134.1	136.0
82.5°	31.7	69.8	85.7	96.0	96.9
85°	18.7	41.0	50.3	55.9	56.8
87.5°	9.3	13.9	17.7	18.7	20.5
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)