

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: P733944

Luminaire Tested: **24FCZ2-30-HRP-B2750-W2D-CA125-4000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P733944  
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-CA125-4000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND HRP LENS, WITH, CA125 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

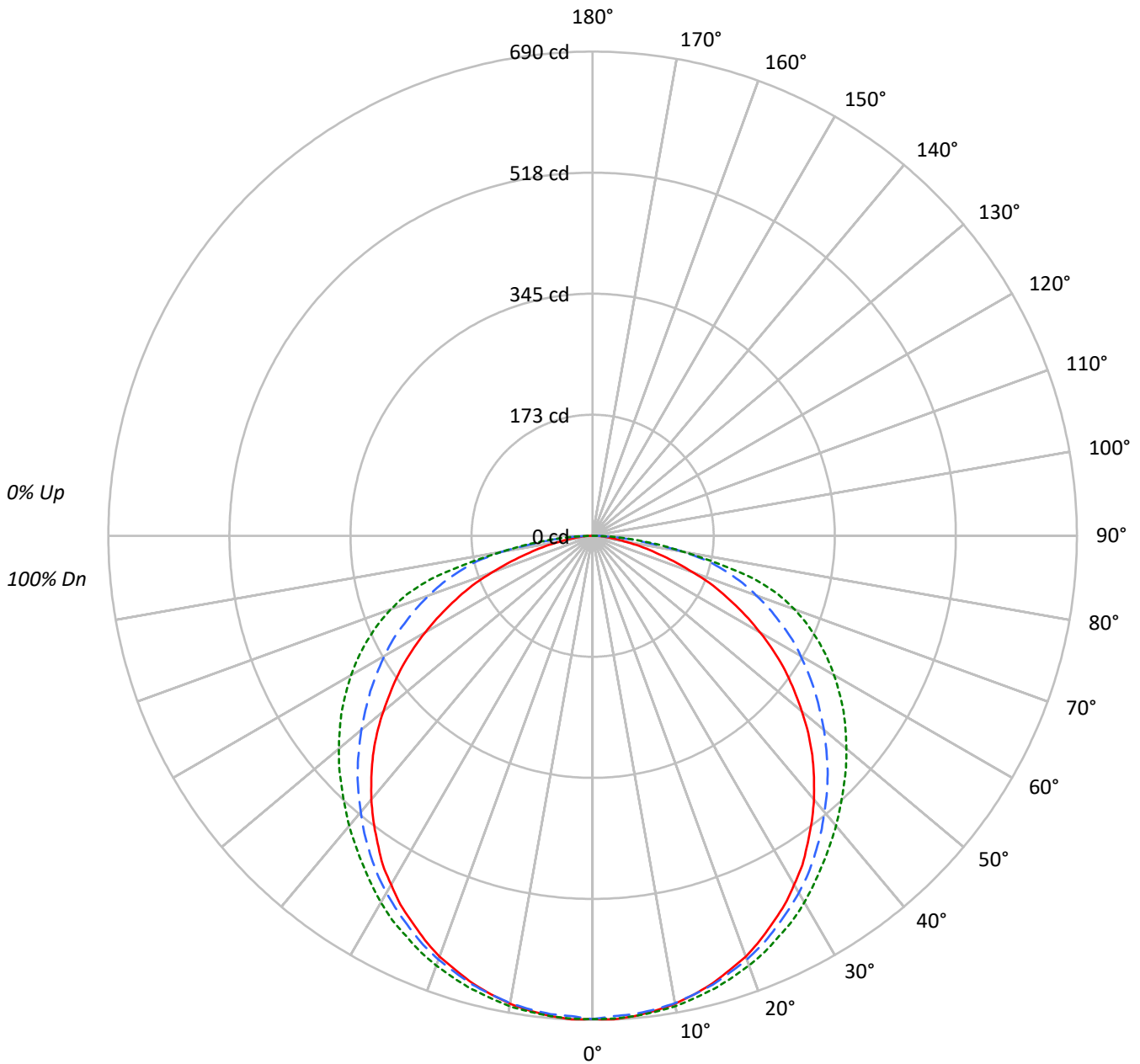
Lumens per Lamp: N/A  
Luminaire Lumens: 2123.0 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P733944

CATALOG NUMBER: 24FCZ2-30-HRP-B2750-W2D-CA125-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P733944

CATALOG NUMBER: 24FCZ2-30-HRP-B2750-W2D-CA125-4000K

**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°	972	972	972
5°	973	969	973
10°	971	969	976
15°	965	967	977
20°	959	965	978
25°	947	961	980
30°	936	957	983
35°	920	953	984
40°	904	946	994
45°	883	945	1009
50°	855	945	1036
55°	824	951	1074
60°	778	966	1121
65°	718	988	1184
70°	627	1023	1262
75°	509	1076	1304
80°	375	1055	1055
85°	288	777	878



TEST NUMBER: P733944

CATALOG NUMBER: 24FCZ2-30-HRP-B2750-W2D-CA125-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.3	3.1
10°-20°	187.4	8.8
20°-30°	285.3	13.4
30°-40°	346.4	16.3
40°-50°	365.9	17.2
50°-60°	345.3	16.3
60°-70°	287.1	13.5
70°-80°	188.9	8.9
80°-90°	51.5	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°	537.9	25.3
0°-40°	884.3	41.7
0°-60°	1595.5	75.2
0°-90°	2123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2123.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	689	689	689	689	689	
5°	687	687	684	687	687	65
15°	660	661	662	668	668	186
25°	608	612	617	628	629	280
35°	534	540	553	567	571	334
45°	443	452	474	497	506	341
55°	335	349	387	423	436	298
65°	215	240	296	340	355	213
75°	93	136	197	234	239	101
85°	18	39	48	53	54	22
90°	0	0	0	0	0	



TEST NUMBER: P733944

CATALOG NUMBER: 24FCZ2-30-HRP-B2750-W2D-CA125-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	688.8	688.8	688.8	688.8	688.8
2.5°	689.7	688.8	685.2	688.8	688.8
5°	687.1	687.1	684.3	687.1	687.1
7.5°	682.6	682.6	680.8	684.3	684.3
10°	677.3	677.3	676.3	680.8	680.8
12.5°	669.3	670.2	669.3	674.5	674.5
15°	660.4	661.2	662.1	668.4	668.4
17.5°	648.8	650.6	652.3	659.5	660.4
20°	638.2	639.0	642.6	650.6	651.5
22.5°	623.9	626.6	631.0	639.0	641.7
25°	607.9	611.5	616.8	627.5	629.3
27.5°	592.8	595.5	602.6	614.1	617.7
30°	574.2	578.6	587.5	599.0	603.4
32.5°	556.4	560.8	571.4	584.0	587.5
35°	534.2	540.3	552.9	567.1	571.4
37.5°	512.9	519.0	534.2	550.1	555.5
40°	490.5	497.7	513.7	532.4	539.5
42.5°	466.6	476.4	494.2	514.6	522.6
45°	442.6	451.5	473.7	496.8	505.7
47.5°	416.8	427.5	451.5	479.0	489.7
50°	389.3	402.6	430.2	460.4	472.0
52.5°	361.7	376.8	407.9	441.7	454.2
55°	335.0	349.3	386.6	423.1	436.4
57.5°	305.8	323.5	364.4	403.5	416.8
60°	275.6	295.1	342.2	383.1	397.2
62.5°	245.3	267.5	320.8	361.7	376.8
65°	215.1	239.9	296.0	339.5	354.6
67.5°	185.8	213.3	272.8	316.4	331.5
70°	152.0	186.6	248.0	290.6	305.8
72.5°	120.9	160.9	224.0	264.0	277.3
75°	93.3	136.0	197.3	233.8	239.1
77.5°	68.5	111.1	169.7	182.2	183.1
80°	46.2	88.9	129.8	127.9	129.8
82.5°	30.2	66.6	81.8	91.6	92.4
85°	17.8	39.1	48.0	53.3	54.2
87.5°	8.9	13.3	16.9	17.8	19.6
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)