

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: P733941

Luminaire Tested: **24FCZ2-30-HRP-B2750-W2D-CA125-2700K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P733941  
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-CA125-2700K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND HRP LENS, WITH, CA125 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

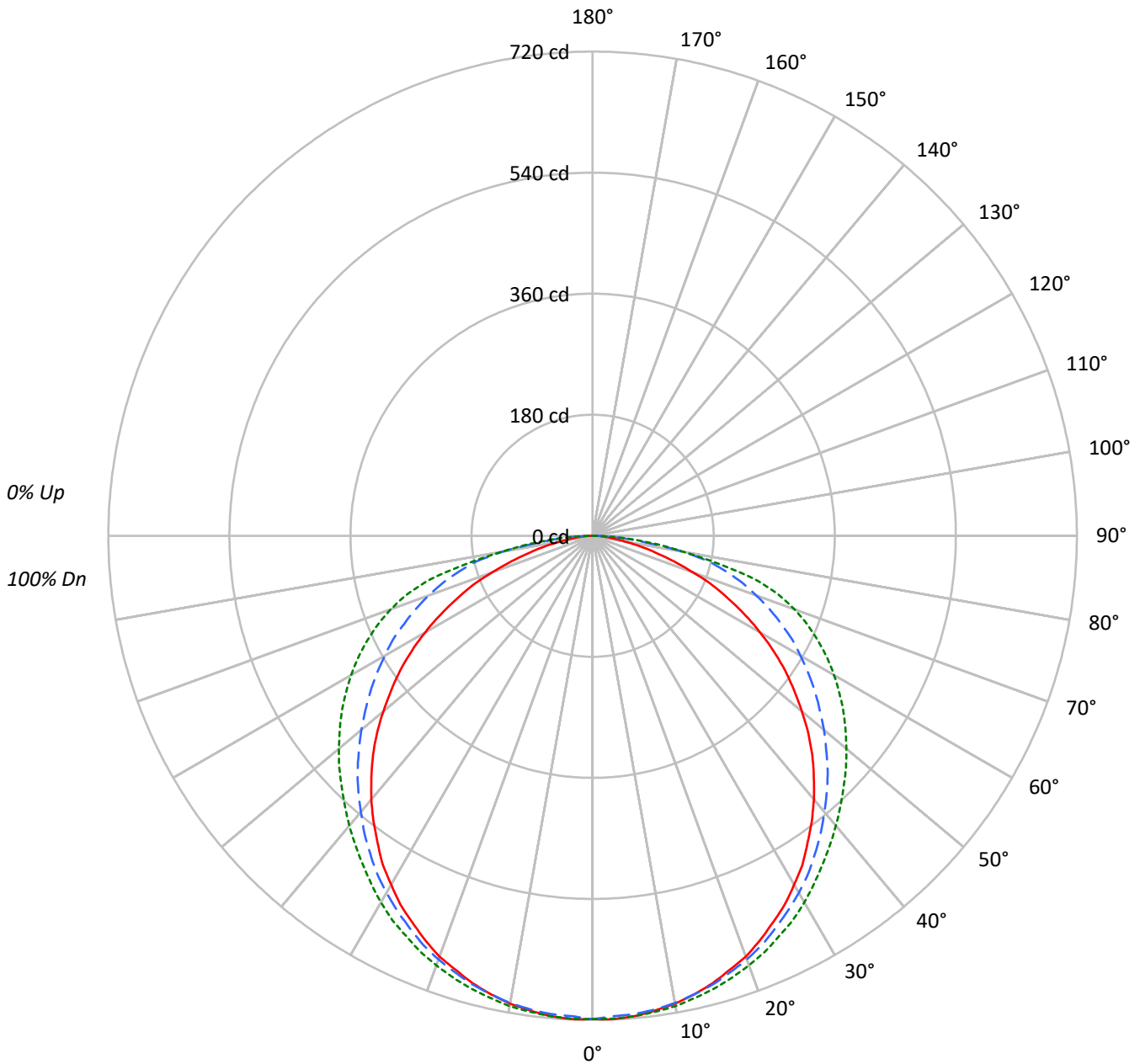
Lumens per Lamp: N/A  
Luminaire Lumens: 2215.0 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1014	1014	1014
5°	1016	1012	1016
10°	1013	1011	1018
15°	1007	1009	1019
20°	1000	1007	1021
25°	988	1002	1022
30°	976	999	1026
35°	960	994	1027
40°	943	988	1037
45°	922	987	1053
50°	892	985	1081
55°	860	992	1120
60°	812	1008	1170
65°	749	1031	1236
70°	654	1068	1316
75°	531	1122	1360
80°	392	1100	1100
85°	301	811	915



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.1	3.1
10°-20°	195.5	8.8
20°-30°	297.6	13.4
30°-40°	361.4	16.3
40°-50°	381.8	17.2
50°-60°	360.3	16.3
60°-70°	299.5	13.5
70°-80°	197.1	8.9
80°-90°	53.7	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°	561.2	25.3
0°-40°	922.6	41.7
0°-60°	1664.6	75.2
0°-90°	2215.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2215.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	719	719	719	719	719	
5°	717	717	714	717	717	68
15°	689	690	691	697	697	194
25°	634	638	644	655	656	293
35°	557	564	577	592	596	349
45°	462	471	494	518	528	356
55°	350	364	403	441	455	311
65°	224	250	309	354	370	222
75°	97	142	206	244	249	105
85°	19	41	50	56	56	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	718.7	718.7	718.7	718.7	718.7
2.5°	719.6	718.7	714.9	718.7	718.7
5°	716.9	716.9	714.0	716.9	716.9
7.5°	712.1	712.1	710.3	714.0	714.0
10°	706.6	706.6	705.6	710.3	710.3
12.5°	698.3	699.2	698.3	703.8	703.8
15°	689.0	689.9	690.8	697.4	697.4
17.5°	676.9	678.8	680.6	688.1	689.0
20°	665.8	666.7	670.4	678.8	679.7
22.5°	650.9	653.8	658.4	666.7	669.5
25°	634.3	638.0	643.6	654.7	656.5
27.5°	618.5	621.3	628.7	640.7	644.5
30°	599.1	603.7	613.0	625.0	629.6
32.5°	580.5	585.1	596.2	609.3	613.0
35°	557.3	563.8	576.8	591.6	596.2
37.5°	535.1	541.5	557.3	574.0	579.6
40°	511.8	519.3	536.0	555.5	562.8
42.5°	486.8	497.0	515.6	536.9	545.3
45°	461.8	471.1	494.3	518.3	527.6
47.5°	434.9	446.0	471.1	499.8	510.9
50°	406.2	420.1	448.8	480.4	492.4
52.5°	377.4	393.1	425.6	460.9	473.8
55°	349.5	364.4	403.3	441.4	455.3
57.5°	319.0	337.5	380.2	421.0	434.9
60°	287.5	307.9	357.0	399.7	414.4
62.5°	256.0	279.1	334.7	377.4	393.1
65°	224.4	250.3	308.8	354.2	370.0
67.5°	193.8	222.6	284.6	330.2	345.9
70°	158.6	194.7	258.7	303.2	319.0
72.5°	126.1	167.9	233.7	275.5	289.3
75°	97.4	141.9	205.8	243.9	249.4
77.5°	71.4	115.9	177.1	190.1	191.1
80°	48.2	92.8	135.4	133.5	135.4
82.5°	31.5	69.5	85.3	95.5	96.4
85°	18.6	40.8	50.1	55.6	56.5
87.5°	9.3	13.9	17.7	18.6	20.4
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)