

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: P733970

Luminaire Tested: **24FCZ2-30-RDP-B2750-W2D-CA125-5000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P733970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30-RDP-B2750-W2D-CA125-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RDP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

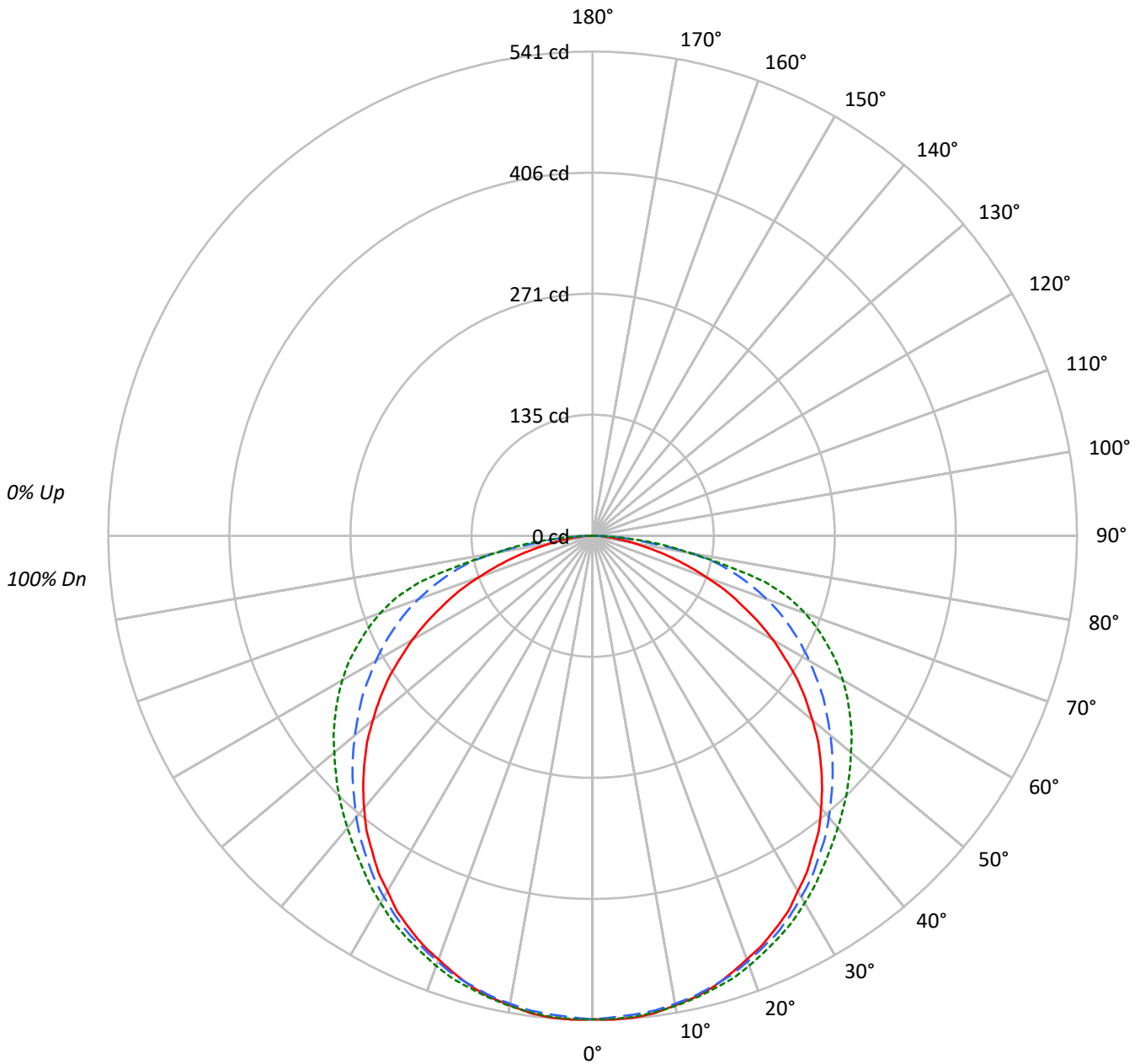
Lumens per Lamp: N/A
Luminaire Lumens: 1718.0 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
Input Voltage (V): NR
Input Current (A_{in}): 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	100	96	92	96	93	89	92	89	87	88	86	84	82																			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67																			
3	88	77	68	62	86	76	68	61	72	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47																			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35																			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27																			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	763	763	763
5°	765	761	764
10°	763	761	765
15°	762	761	766
20°	756	760	768
25°	754	762	770
30°	747	760	772
35°	740	758	775
40°	732	757	785
45°	720	757	803
50°	703	761	827
55°	686	774	864
60°	657	789	911
65°	614	817	968
70°	559	854	1041
75°	474	901	1087
80°	374	907	879
85°	277	690	772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	3.0
10°-20°	147.5	8.6
20°-30°	225.6	13.1
30°-40°	275.7	16.0
40°-50°	293.9	17.1
50°-60°	281.0	16.4
60°-70°	238.0	13.9
70°-80°	160.0	9.3
80°-90°	45.1	2.6
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°	424.3	24.7
0°-40°	700.0	40.7
0°-60°	1274.9	74.2
0°-90°	1718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1718.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	540	540	540	540	540	
5°	540	539	537	539	539	51
15°	522	522	521	525	524	147
25°	484	486	489	493	494	223
35°	430	433	440	448	450	269
45°	360	366	379	395	402	278
55°	279	289	314	339	351	248
65°	184	203	244	277	290	183
75°	87	118	165	194	199	93
85°	17	35	43	46	48	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	540.3	540.3	540.3	540.3	540.3
2.5°	541.1	541.1	538.5	540.3	540.3
5°	540.3	539.4	536.9	539.4	539.4
7.5°	537.7	536.9	535.1	537.7	536.9
10°	532.6	532.6	530.9	533.5	533.5
12.5°	528.3	527.5	526.6	530.0	529.2
15°	521.6	521.6	520.6	525.0	524.0
17.5°	513.0	513.9	514.7	518.1	519.0
20°	503.6	505.3	506.2	511.3	511.3
22.5°	495.1	496.0	497.6	502.8	502.8
25°	484.1	485.7	489.1	493.4	494.2
27.5°	473.0	473.8	478.1	484.1	484.9
30°	458.5	461.0	466.1	473.0	473.8
32.5°	445.6	448.2	454.2	461.0	462.7
35°	429.5	432.9	439.7	448.2	449.9
37.5°	415.0	417.6	426.1	435.5	438.0
40°	397.1	402.2	410.7	421.8	426.1
42.5°	379.3	384.3	394.6	409.1	414.2
45°	360.5	366.4	379.3	395.4	402.2
47.5°	341.8	348.5	363.0	381.7	389.4
50°	320.4	328.9	346.8	368.2	376.7
52.5°	299.9	310.2	329.8	353.7	364.8
55°	278.7	288.8	314.4	339.2	351.1
57.5°	254.8	268.4	296.5	324.7	337.4
60°	232.6	245.4	279.5	310.2	322.9
62.5°	208.8	225.8	262.4	294.8	307.6
65°	184.0	202.8	244.5	276.9	289.8
67.5°	161.9	182.4	226.7	259.0	271.9
70°	135.5	161.0	207.0	239.4	252.3
72.5°	110.8	138.9	186.6	218.1	230.1
75°	86.9	118.5	165.3	193.5	199.4
77.5°	64.7	98.0	143.1	155.1	150.8
80°	46.0	78.4	111.6	105.6	108.2
82.5°	29.8	59.7	69.0	78.4	81.0
85°	17.1	34.9	42.6	46.0	47.7
87.5°	7.7	12.7	17.1	17.1	16.2
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)