

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: P734090

Luminaire Tested: **24FCZ2-30HE-RDP-B2750-W2D-CA08-5000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P734090
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: 24FCZ2-30HE-RDP-B2750-W2D-CA08-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RDP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

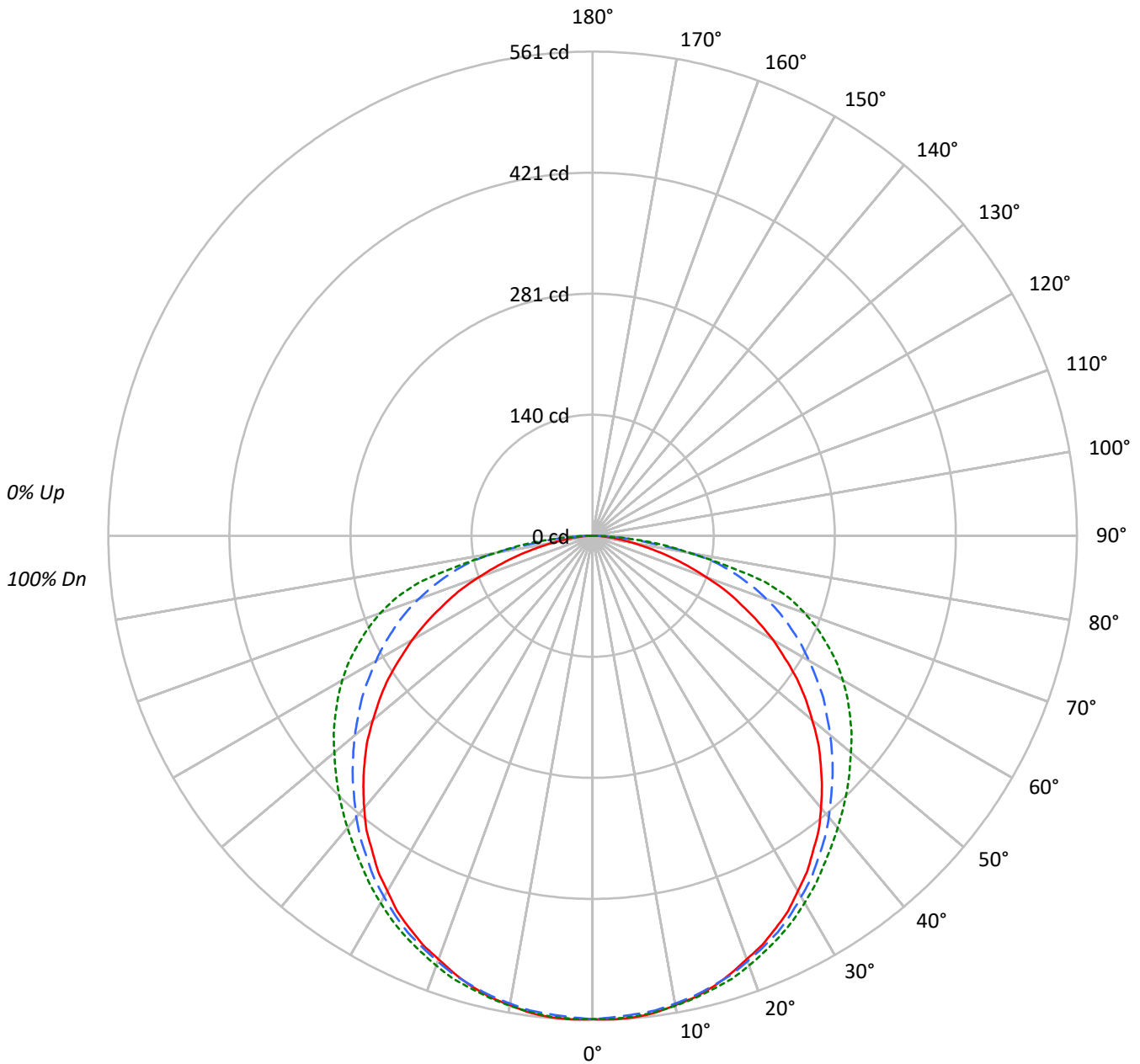
Lumens per Lamp: N/A
Luminaire Lumens: 1781.0 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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	67	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°	790	790	790
5°	794	789	792
10°	791	789	793
15°	790	789	794
20°	784	788	796
25°	781	790	798
30°	775	787	800
35°	767	785	804
40°	759	784	814
45°	746	785	832
50°	729	789	857
55°	711	802	896
60°	681	818	945
65°	637	847	1003
70°	580	886	1079
75°	491	935	1128
80°	388	940	912
85°	287	716	800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	3.0
10°-20°	152.9	8.6
20°-30°	233.8	13.1
30°-40°	285.8	16.0
40°-50°	304.7	17.1
50°-60°	291.3	16.4
60°-70°	246.8	13.9
70°-80°	165.8	9.3
80°-90°	46.8	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°	439.9	24.7
0°-40°	725.7	40.7
0°-60°	1321.6	74.2
0°-90°	1781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1781.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	560	560	560	560	560	
5°	560	559	557	559	559	53
15°	541	541	540	544	543	152
25°	502	504	507	512	512	231
35°	445	449	456	465	466	279
45°	374	380	393	410	417	288
55°	289	299	326	352	364	257
65°	191	210	254	287	300	189
75°	90	123	171	201	207	96
85°	18	36	44	48	49	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	560.1	560.1	560.1	560.1	560.1
2.5°	560.9	560.9	558.3	560.1	560.1
5°	560.1	559.2	556.6	559.2	559.2
7.5°	557.4	556.6	554.8	557.4	556.6
10°	552.1	552.1	550.4	553.0	553.0
12.5°	547.7	546.9	545.9	549.4	548.6
15°	540.7	540.7	539.7	544.2	543.2
17.5°	531.9	532.7	533.6	537.1	538.0
20°	522.1	523.9	524.7	530.0	530.0
22.5°	513.2	514.2	515.9	521.2	521.2
25°	501.8	503.5	507.0	511.5	512.4
27.5°	490.3	491.2	495.6	501.8	502.7
30°	475.3	478.0	483.2	490.3	491.2
32.5°	462.0	464.6	470.8	478.0	479.7
35°	445.3	448.8	455.8	464.6	466.4
37.5°	430.2	432.9	441.7	451.4	454.1
40°	411.7	416.9	425.8	437.3	441.7
42.5°	393.2	398.4	409.0	424.1	429.4
45°	373.7	379.8	393.2	409.9	416.9
47.5°	354.3	361.3	376.3	395.7	403.7
50°	332.1	341.0	359.5	381.7	390.5
52.5°	310.9	321.6	341.9	366.6	378.1
55°	288.9	299.4	325.9	351.6	364.0
57.5°	264.2	278.2	307.4	336.6	349.8
60°	241.2	254.4	289.7	321.6	334.8
62.5°	216.4	234.1	272.1	305.6	318.9
65°	190.8	210.3	253.5	287.1	300.4
67.5°	167.9	189.1	235.0	268.5	281.9
70°	140.5	166.9	214.6	248.2	261.5
72.5°	114.8	144.0	193.4	226.1	238.5
75°	90.1	122.8	171.4	200.6	206.8
77.5°	67.1	101.6	148.4	160.7	156.4
80°	47.7	81.3	115.7	109.5	112.2
82.5°	30.9	61.9	71.6	81.3	83.9
85°	17.7	36.2	44.2	47.7	49.4
87.5°	8.0	13.2	17.7	17.7	16.8
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)