

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: P734087

Luminaire Tested: **24FCZ2-30HE-RDP-B2750-W2D-CA08-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734087
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-CA08-3000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RDP LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

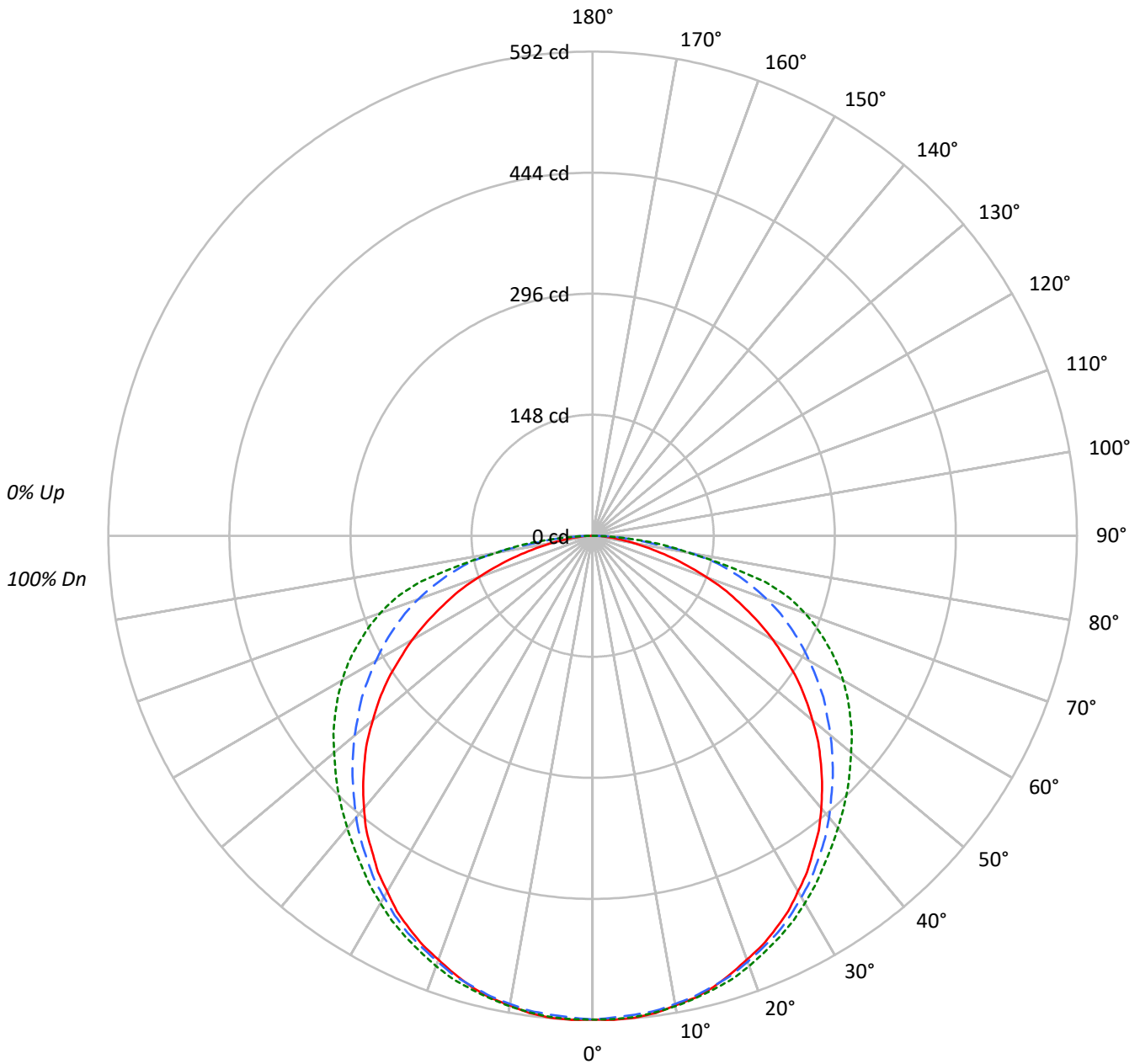
Lumens per Lamp: N/A
Luminaire Lumens: 1881.0 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	835	835	835
5°	838	833	837
10°	836	833	837
15°	834	833	838
20°	828	832	841
25°	825	834	843
30°	818	832	845
35°	810	829	849
40°	801	829	859
45°	788	829	879
50°	770	834	905
55°	751	847	946
60°	719	864	998
65°	673	894	1060
70°	612	935	1140
75°	519	987	1191
80°	410	993	963
85°	303	756	845



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	3.0
10°-20°	161.5	8.6
20°-30°	246.9	13.1
30°-40°	301.9	16.0
40°-50°	321.8	17.1
50°-60°	307.6	16.4
60°-70°	260.6	13.9
70°-80°	175.1	9.3
80°-90°	49.4	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°	464.6	24.7
0°-40°	766.4	40.7
0°-60°	1395.8	74.2
0°-90°	1881.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1881.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	592	592	592	592	592	
5°	592	591	588	591	591	56
15°	571	571	570	575	574	161
25°	530	532	536	540	541	244
35°	470	474	481	491	493	295
45°	395	401	415	433	440	304
55°	305	316	344	371	384	272
65°	202	222	268	303	317	200
75°	95	130	181	212	218	102
85°	19	38	47	50	52	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	591.5	591.5	591.5	591.5	591.5
2.5°	592.4	592.4	589.6	591.5	591.5
5°	591.5	590.6	587.8	590.6	590.6
7.5°	588.7	587.8	585.9	588.7	587.8
10°	583.1	583.1	581.3	584.1	584.1
12.5°	578.5	577.6	576.6	580.3	579.4
15°	571.1	571.1	570.0	574.8	573.8
17.5°	561.7	562.6	563.5	567.2	568.2
20°	551.4	553.3	554.2	559.8	559.8
22.5°	542.0	543.0	544.8	550.5	550.5
25°	530.0	531.8	535.5	540.2	541.1
27.5°	517.8	518.7	523.5	530.0	530.9
30°	502.0	504.8	510.3	517.8	518.7
32.5°	487.9	490.7	497.3	504.8	506.6
35°	470.3	474.0	481.4	490.7	492.6
37.5°	454.4	457.2	466.5	476.8	479.6
40°	434.8	440.3	449.7	461.8	466.5
42.5°	415.2	420.8	432.0	447.9	453.5
45°	394.7	401.2	415.2	432.9	440.3
47.5°	374.2	381.6	397.5	417.9	426.4
50°	350.8	360.1	379.7	403.1	412.4
52.5°	328.4	339.6	361.1	387.2	399.4
55°	305.1	316.2	344.3	371.4	384.4
57.5°	279.0	293.9	324.7	355.5	369.5
60°	254.7	268.7	306.0	339.6	353.6
62.5°	228.6	247.3	287.3	322.8	336.8
65°	201.5	222.1	267.8	303.2	317.3
67.5°	177.3	199.7	248.2	283.6	297.7
70°	148.4	176.3	226.7	262.1	276.2
72.5°	121.3	152.1	204.3	238.8	251.9
75°	95.2	129.7	181.0	211.8	218.4
77.5°	70.9	107.3	156.7	169.8	165.2
80°	50.4	85.8	122.2	115.7	118.5
82.5°	32.6	65.4	75.6	85.8	88.7
85°	18.7	38.3	46.7	50.4	52.2
87.5°	8.4	14.0	18.7	18.7	17.8
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)