

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: P734100

Luminaire Tested: **24FCZ2-30HE-RDP-B2750-W2D-CP187-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734100
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-CP187-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RDP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

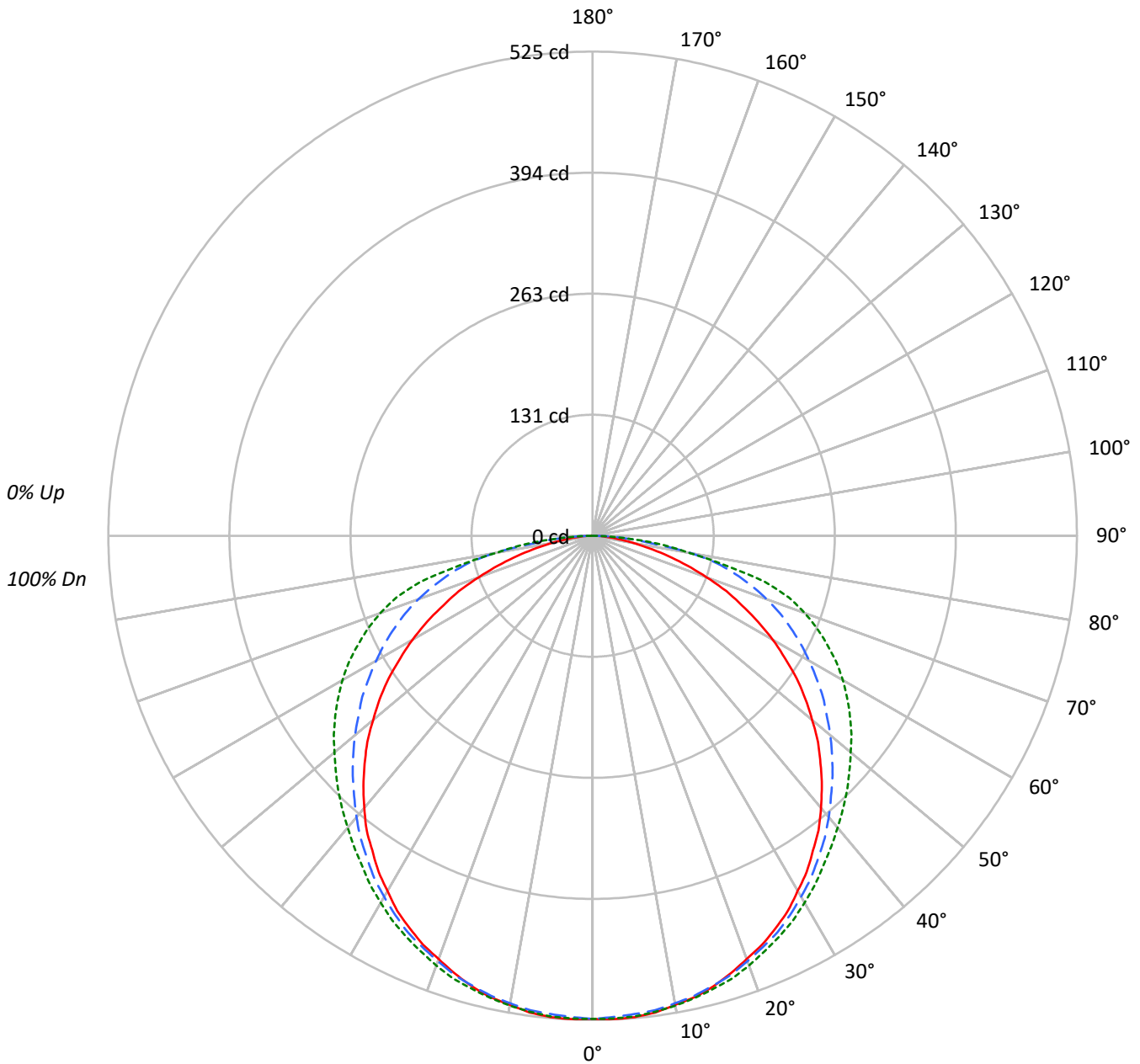
Lumens per Lamp: N/A
Luminaire Lumens: 1666.0 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	739	739	739
5°	742	738	741
10°	740	738	741
15°	739	738	743
20°	733	737	745
25°	731	739	746
30°	725	737	749
35°	718	735	752
40°	709	734	761
45°	698	734	778
50°	682	738	802
55°	665	750	838
60°	637	765	884
65°	596	792	938
70°	542	829	1009
75°	460	874	1055
80°	362	879	853
85°	267	670	748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	3.0
10°-20°	143.0	8.6
20°-30°	218.7	13.1
30°-40°	267.4	16.0
40°-50°	285.0	17.1
50°-60°	272.5	16.4
60°-70°	230.8	13.9
70°-80°	155.1	9.3
80°-90°	43.8	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°	411.4	24.7
0°-40°	678.8	40.7
0°-60°	1236.3	74.2
0°-90°	1666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	524	524	524	524	524	
5°	524	523	521	523	523	50
15°	506	506	505	509	508	143
25°	469	471	474	478	479	216
35°	416	420	426	435	436	261
45°	350	355	368	383	390	270
55°	270	280	305	329	340	241
65°	178	197	237	268	281	177
75°	84	115	160	188	193	90
85°	16	34	41	45	46	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	523.9	523.9	523.9	523.9	523.9
2.5°	524.7	524.7	522.2	523.9	523.9
5°	523.9	523.1	520.6	523.1	523.1
7.5°	521.4	520.6	518.9	521.4	520.6
10°	516.4	516.4	514.8	517.3	517.3
12.5°	512.4	511.6	510.7	514.0	513.2
15°	505.8	505.8	504.9	509.1	508.2
17.5°	497.5	498.3	499.1	502.4	503.3
20°	488.3	490.0	490.8	495.8	495.8
22.5°	480.1	481.0	482.6	487.5	487.5
25°	469.4	471.0	474.3	478.5	479.3
27.5°	458.6	459.4	463.6	469.4	470.2
30°	444.6	447.1	452.0	458.6	459.4
32.5°	432.1	434.6	440.4	447.1	448.7
35°	416.5	419.8	426.4	434.6	436.3
37.5°	402.5	404.9	413.2	422.3	424.8
40°	385.1	390.0	398.3	409.0	413.2
42.5°	367.8	372.7	382.6	396.7	401.7
45°	349.5	355.3	367.8	383.4	390.0
47.5°	331.4	338.0	352.0	370.2	377.6
50°	310.7	319.0	336.3	357.0	365.3
52.5°	290.9	300.8	319.8	343.0	353.7
55°	270.2	280.1	304.9	328.9	340.5
57.5°	247.1	260.3	287.6	314.9	327.2
60°	225.6	237.9	271.0	300.8	313.2
62.5°	202.5	219.0	254.5	285.9	298.3
65°	178.5	196.7	237.1	268.5	281.0
67.5°	157.0	176.9	219.8	251.2	263.7
70°	131.4	156.1	200.8	232.2	244.6
72.5°	107.4	134.7	180.9	211.5	223.1
75°	84.3	114.9	160.3	187.6	193.4
77.5°	62.8	95.1	138.8	150.4	146.3
80°	44.6	76.0	108.2	102.4	104.9
82.5°	28.9	57.9	67.0	76.0	78.5
85°	16.5	33.9	41.4	44.6	46.2
87.5°	7.5	12.4	16.5	16.5	15.7
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)