

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: P734073

Luminaire Tested: **24FCZ2-30HE-HRP-B2750-W2D-CP187-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734073
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: 24FCZ2-30HE-HRP-B2750-W2D-CP187-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND HRP LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

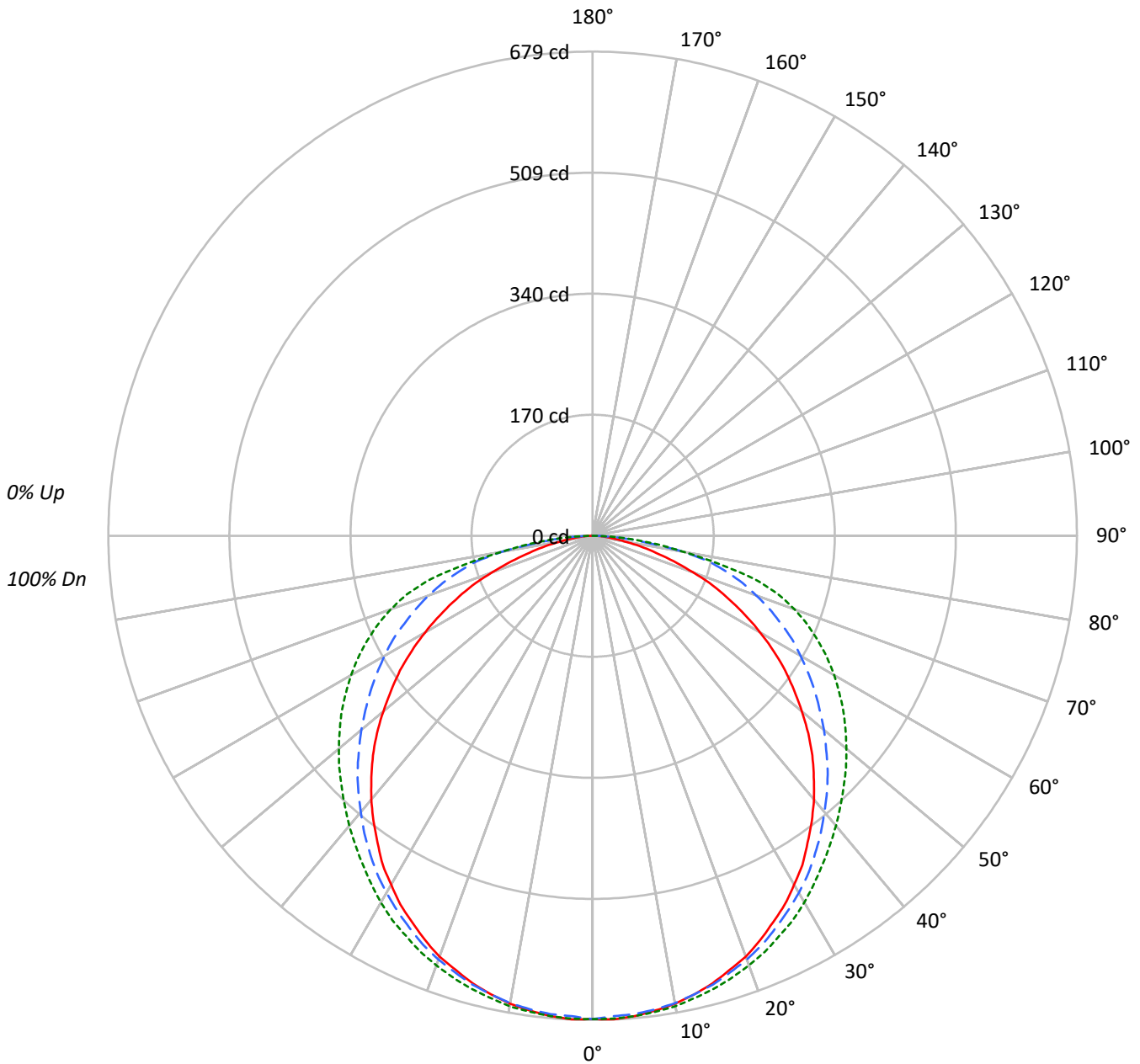
Lumens per Lamp: N/A
Luminaire Lumens: 2089.0 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	957	957	957
5°	958	954	958
10°	955	954	960
15°	949	952	961
20°	943	950	963
25°	932	945	964
30°	921	942	968
35°	906	937	969
40°	889	931	978
45°	869	930	993
50°	841	929	1020
55°	811	936	1057
60°	765	950	1103
65°	707	973	1165
70°	617	1007	1242
75°	501	1058	1283
80°	369	1038	1038
85°	283	766	863



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	3.1
10°-20°	184.4	8.8
20°-30°	280.7	13.4
30°-40°	340.8	16.3
40°-50°	360.1	17.2
50°-60°	339.8	16.3
60°-70°	282.5	13.5
70°-80°	185.9	8.9
80°-90°	50.7	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°	529.3	25.3
0°-40°	870.1	41.7
0°-60°	1569.9	75.2
0°-90°	2089.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2089.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	678	678	678	678	678	
5°	676	676	673	676	676	64
15°	650	651	652	658	658	183
25°	598	602	607	618	619	276
35°	526	532	544	558	562	329
45°	436	444	466	489	498	335
55°	330	344	380	416	429	294
65°	212	236	291	334	349	209
75°	92	134	194	230	235	99
85°	18	38	47	52	53	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	677.8	677.8	677.8	677.8	677.8
2.5°	678.7	677.8	674.2	677.8	677.8
5°	676.1	676.1	673.4	676.1	676.1
7.5°	671.6	671.6	669.9	673.4	673.4
10°	666.4	666.4	665.5	669.9	669.9
12.5°	658.6	659.4	658.6	663.7	663.7
15°	649.8	650.7	651.5	657.7	657.7
17.5°	638.4	640.2	641.9	648.9	649.8
20°	627.9	628.8	632.3	640.2	641.0
22.5°	613.9	616.6	620.9	628.8	631.4
25°	598.2	601.7	607.0	617.5	619.2
27.5°	583.3	586.0	592.9	604.3	607.8
30°	565.0	569.3	578.1	589.4	593.8
32.5°	547.5	551.8	562.3	574.6	578.1
35°	525.6	531.7	544.0	558.0	562.3
37.5°	504.6	510.7	525.6	541.3	546.6
40°	482.7	489.7	505.5	523.9	530.8
42.5°	459.1	468.7	486.3	506.4	514.3
45°	435.5	444.3	466.1	488.9	497.6
47.5°	410.1	420.6	444.3	471.3	481.8
50°	383.1	396.2	423.3	453.1	464.4
52.5°	355.9	370.8	401.4	434.7	446.9
55°	329.7	343.7	380.4	416.3	429.4
57.5°	300.9	318.3	358.5	397.0	410.1
60°	271.1	290.4	336.7	376.9	390.9
62.5°	241.4	263.2	315.7	355.9	370.8
65°	211.7	236.1	291.3	334.1	348.9
67.5°	182.8	209.9	268.4	311.4	326.2
70°	149.6	183.6	244.0	286.0	300.9
72.5°	119.0	158.3	220.4	259.8	272.9
75°	91.8	133.8	194.1	230.0	235.2
77.5°	67.4	109.3	167.0	179.3	180.2
80°	45.4	87.5	127.7	125.9	127.7
82.5°	29.7	65.5	80.5	90.1	91.0
85°	17.5	38.5	47.3	52.5	53.3
87.5°	8.8	13.1	16.7	17.5	19.3
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)