

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: P733948

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733948
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: 24FCZ2-30-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

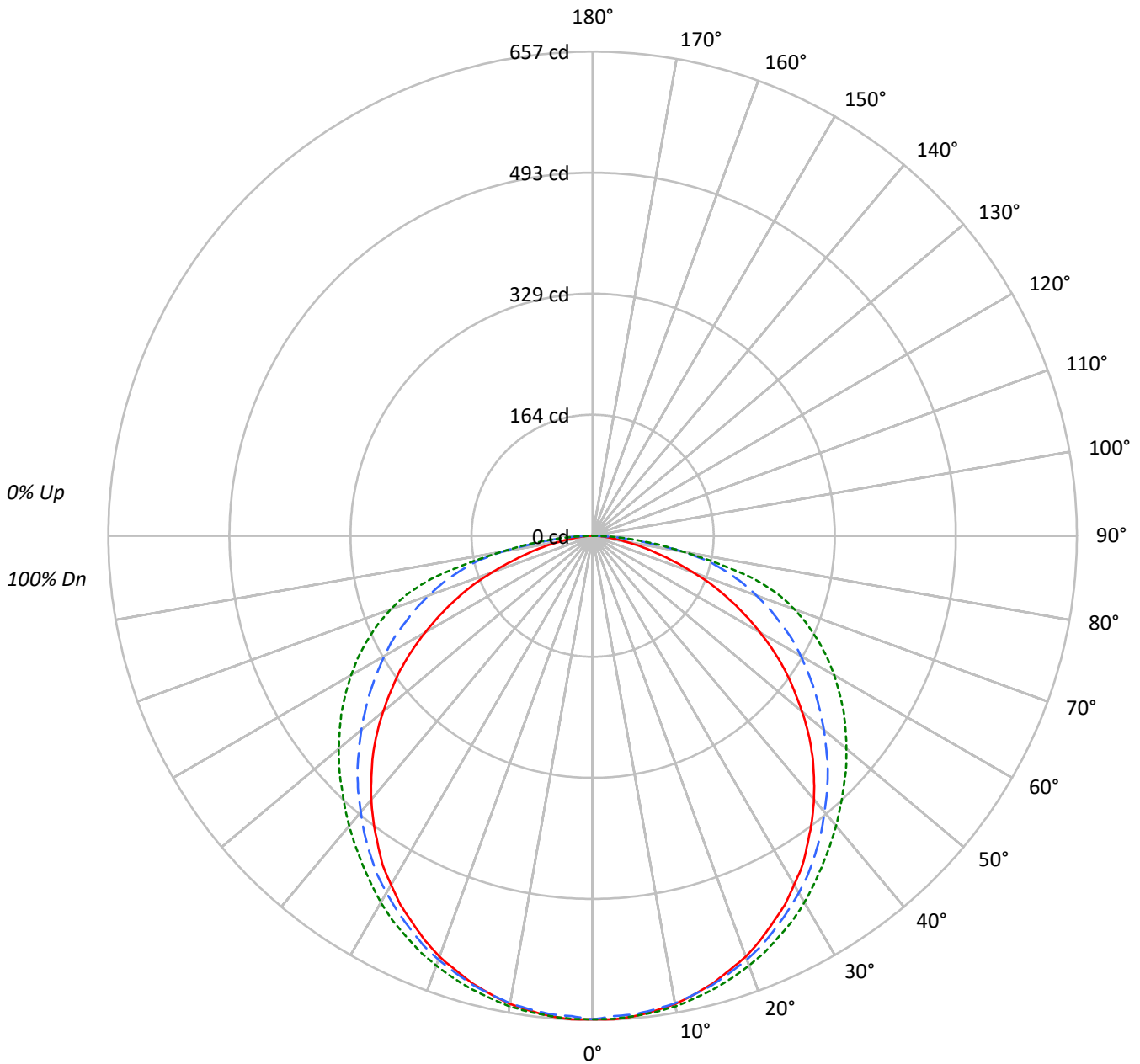
Lumens per Lamp: N/A
Luminaire Lumens: 2022.0 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	926	926	926
5°	927	923	927
10°	925	923	929
15°	919	921	930
20°	913	919	932
25°	902	915	933
30°	891	912	937
35°	877	907	938
40°	861	901	947
45°	841	901	961
50°	814	900	987
55°	785	906	1023
60°	741	920	1068
65°	684	941	1128
70°	598	975	1202
75°	485	1025	1242
80°	358	1005	1005
85°	275	740	836



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.1	3.1
10°-20°	178.5	8.8
20°-30°	271.7	13.4
30°-40°	329.9	16.3
40°-50°	348.5	17.2
50°-60°	328.9	16.3
60°-70°	273.5	13.5
70°-80°	179.9	8.9
80°-90°	49.0	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°	512.3	25.3
0°-40°	842.2	41.7
0°-60°	1519.6	75.2
0°-90°	2022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2022.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	656	656	656	656	656	
5°	654	654	652	654	654	62
15°	629	630	631	637	637	177
25°	579	582	588	598	599	267
35°	509	515	527	540	544	318
45°	422	430	451	473	482	325
55°	319	333	368	403	416	284
65°	205	228	282	323	338	203
75°	89	130	188	223	228	96
85°	17	37	46	51	52	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	656.1	656.1	656.1	656.1	656.1
2.5°	656.9	656.1	652.6	656.1	656.1
5°	654.4	654.4	651.8	654.4	654.4
7.5°	650.1	650.1	648.4	651.8	651.8
10°	645.1	645.1	644.1	648.4	648.4
12.5°	637.4	638.3	637.4	642.5	642.5
15°	629.0	629.8	630.6	636.6	636.6
17.5°	618.0	619.6	621.3	628.1	629.0
20°	607.8	608.6	612.0	619.6	620.5
22.5°	594.2	596.8	601.0	608.6	611.2
25°	579.0	582.4	587.5	597.7	599.3
27.5°	564.6	567.2	573.9	584.9	588.3
30°	546.9	551.1	559.5	570.5	574.7
32.5°	529.9	534.1	544.3	556.2	559.5
35°	508.8	514.6	526.6	540.1	544.3
37.5°	488.5	494.3	508.8	524.0	529.1
40°	467.2	474.0	489.3	507.1	513.8
42.5°	444.4	453.7	470.7	490.1	497.8
45°	421.6	430.0	451.2	473.2	481.7
47.5°	397.0	407.1	430.0	456.2	466.4
50°	370.8	383.5	409.7	438.5	449.5
52.5°	344.5	358.9	388.5	420.7	432.6
55°	319.1	332.7	368.2	402.9	415.6
57.5°	291.2	308.1	347.0	384.3	397.0
60°	262.4	281.1	325.9	364.8	378.3
62.5°	233.7	254.8	305.6	344.5	358.9
65°	204.9	228.5	281.9	323.4	337.7
67.5°	176.9	203.2	259.8	301.4	315.7
70°	144.8	177.8	236.2	276.8	291.2
72.5°	115.2	153.3	213.3	251.5	264.1
75°	88.9	129.5	187.9	222.7	227.7
77.5°	65.2	105.8	161.6	173.6	174.4
80°	44.0	84.7	123.6	121.9	123.6
82.5°	28.8	63.4	77.9	87.2	88.0
85°	17.0	37.3	45.7	50.8	51.6
87.5°	8.5	12.7	16.1	17.0	18.6
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)