

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: P733943

Luminaire Tested: **24FCZ2-30-HRP-B2750-W2D-CA125-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733943
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-CA125-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND HRP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

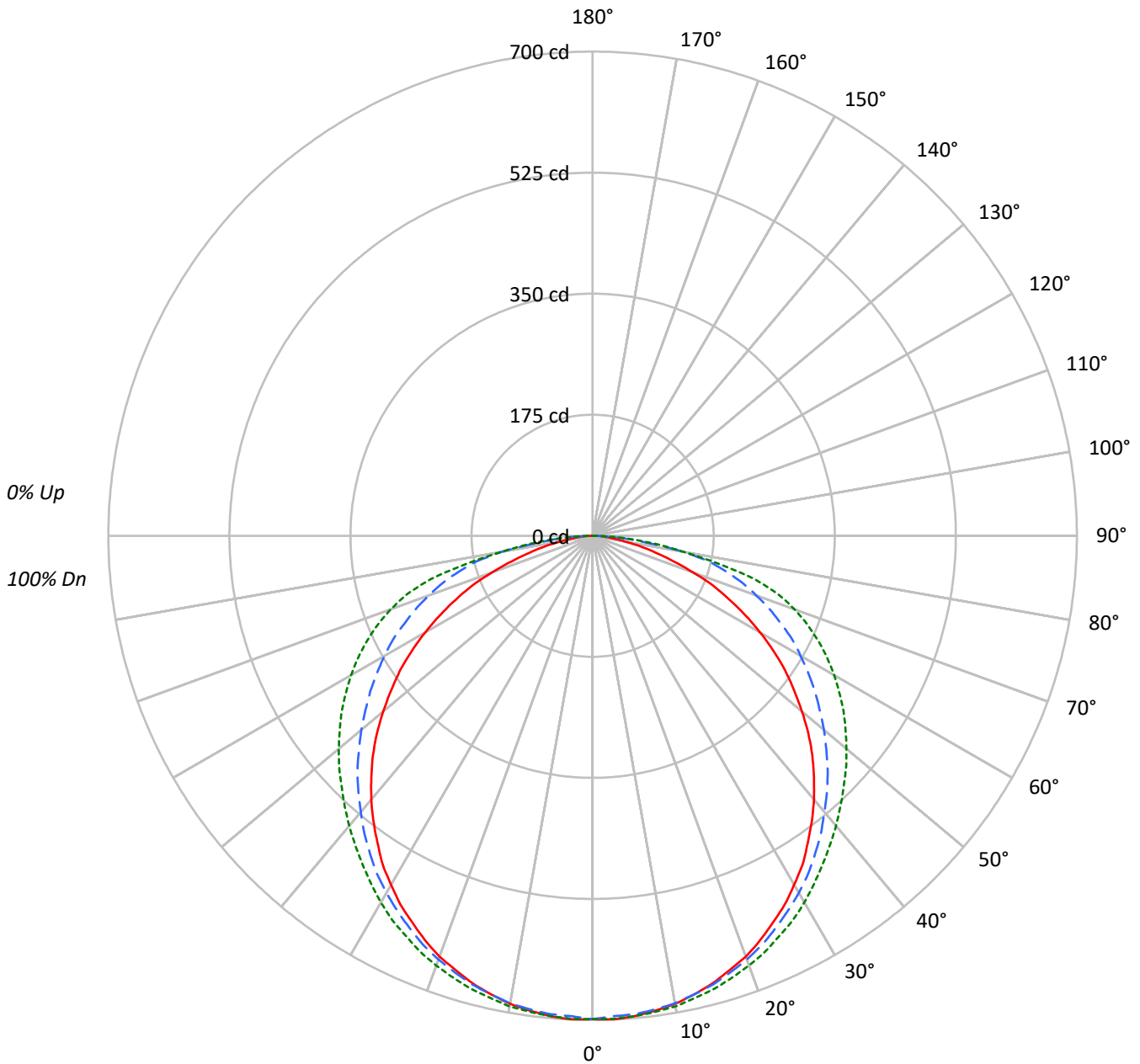
Lumens per Lamp: N/A
Luminaire Lumens: 2154.0 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	986	986	986
5°	988	984	988
10°	985	983	990
15°	979	982	991
20°	972	979	993
25°	961	975	994
30°	949	971	998
35°	934	966	999
40°	917	960	1008
45°	896	959	1024
50°	867	958	1051
55°	836	965	1089
60°	789	980	1138
65°	729	1003	1202
70°	636	1038	1280
75°	516	1092	1323
80°	380	1070	1070
85°	293	789	891



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	3.1
10°-20°	190.1	8.8
20°-30°	289.4	13.4
30°-40°	351.4	16.3
40°-50°	371.3	17.2
50°-60°	350.3	16.3
60°-70°	291.3	13.5
70°-80°	191.7	8.9
80°-90°	52.3	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°	545.7	25.3
0°-40°	897.2	41.7
0°-60°	1618.8	75.2
0°-90°	2154.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2154.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	699	699	699	699	699	
5°	697	697	694	697	697	66
15°	670	671	672	678	678	189
25°	617	620	626	637	638	285
35°	542	548	561	575	580	339
45°	449	458	481	504	513	346
55°	340	354	392	429	443	303
65°	218	243	300	344	360	216
75°	95	138	200	237	243	102
85°	18	40	49	54	55	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	698.9	698.9	698.9	698.9	698.9
2.5°	699.8	698.9	695.2	698.9	698.9
5°	697.1	697.1	694.3	697.1	697.1
7.5°	692.5	692.5	690.8	694.3	694.3
10°	687.2	687.2	686.2	690.8	690.8
12.5°	679.0	679.9	679.0	684.4	684.4
15°	670.0	670.9	671.8	678.2	678.2
17.5°	658.3	660.1	661.9	669.1	670.0
20°	647.5	648.4	651.9	660.1	661.0
22.5°	633.0	635.8	640.2	648.4	651.1
25°	616.8	620.4	625.8	636.7	638.5
27.5°	601.4	604.2	611.4	623.1	626.7
30°	582.6	587.0	596.1	607.8	612.2
32.5°	564.5	569.0	579.8	592.5	596.1
35°	542.0	548.2	560.9	575.3	579.8
37.5°	520.4	526.6	542.0	558.2	563.6
40°	497.7	505.0	521.2	540.2	547.3
42.5°	473.4	483.3	501.4	522.1	530.3
45°	449.1	458.1	480.6	504.1	513.1
47.5°	422.9	433.7	458.1	486.0	496.8
50°	395.0	408.5	436.5	467.2	478.9
52.5°	367.0	382.3	413.8	448.2	460.8
55°	339.9	354.4	392.2	429.2	442.7
57.5°	310.2	328.2	369.7	409.4	422.9
60°	279.6	299.4	347.2	388.6	403.0
62.5°	248.9	271.4	325.5	367.0	382.3
65°	218.2	243.4	300.3	344.5	359.8
67.5°	188.5	216.5	276.8	321.1	336.3
70°	154.2	189.4	251.6	294.9	310.2
72.5°	122.7	163.3	227.3	267.9	281.4
75°	94.7	137.9	200.2	237.2	242.6
77.5°	69.5	112.7	172.2	184.9	185.8
80°	46.8	90.2	131.7	129.8	131.7
82.5°	30.7	67.6	83.0	92.9	93.8
85°	18.1	39.7	48.7	54.1	55.0
87.5°	9.0	13.5	17.2	18.1	19.9
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)