

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: P733951

Luminaire Tested: **24FCZ2-30-HRP-B2750-W2D-CP250-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733951
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-CP250-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND HRP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

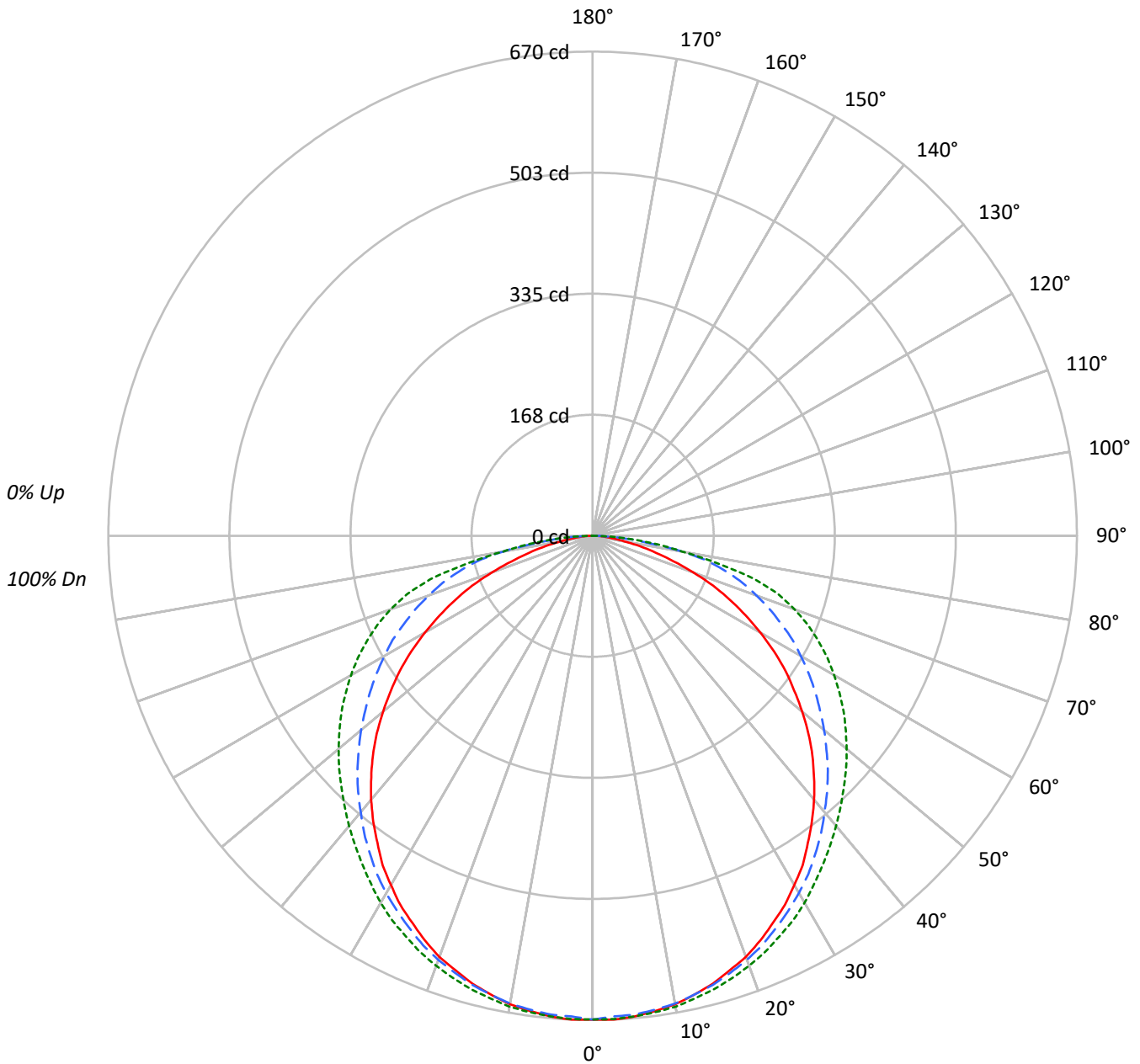
Lumens per Lamp: N/A
Luminaire Lumens: 2063.0 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	945	945	945
5°	946	942	946
10°	943	942	948
15°	938	940	949
20°	931	938	951
25°	920	933	952
30°	909	930	956
35°	894	926	957
40°	878	920	966
45°	858	919	981
50°	831	918	1007
55°	801	924	1043
60°	756	939	1090
65°	698	960	1151
70°	609	994	1226
75°	495	1045	1267
80°	365	1025	1025
85°	280	756	853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	3.1
10°-20°	182.1	8.8
20°-30°	277.2	13.4
30°-40°	336.6	16.3
40°-50°	355.6	17.2
50°-60°	335.5	16.3
60°-70°	279.0	13.5
70°-80°	183.6	8.9
80°-90°	50.0	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°	522.7	25.3
0°-40°	859.3	41.7
0°-60°	1550.4	75.2
0°-90°	2063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2063.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	669	669	669	669	669	
5°	668	668	665	668	668	63
15°	642	643	643	650	650	181
25°	591	594	599	610	612	272
35°	519	525	537	551	555	325
45°	430	439	460	483	491	331
55°	326	339	376	411	424	290
65°	209	233	288	330	345	207
75°	91	132	192	227	232	98
85°	17	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°	669.4	669.4	669.4	669.4	669.4
2.5°	670.2	669.4	665.8	669.4	669.4
5°	667.7	667.7	665.0	667.7	667.7
7.5°	663.3	663.3	661.6	665.0	665.0
10°	658.2	658.2	657.2	661.6	661.6
12.5°	650.4	651.2	650.4	655.5	655.5
15°	641.7	642.6	643.4	649.5	649.5
17.5°	630.5	632.2	633.9	640.8	641.7
20°	620.1	621.0	624.4	632.2	633.1
22.5°	606.2	608.9	613.2	621.0	623.5
25°	590.8	594.2	599.4	609.8	611.5
27.5°	576.0	578.7	585.5	596.7	600.3
30°	558.0	562.2	570.9	582.1	586.4
32.5°	540.7	544.9	555.3	567.5	570.9
35°	519.1	525.1	537.2	551.0	555.3
37.5°	498.4	504.3	519.1	534.6	539.8
40°	476.7	483.6	499.2	517.4	524.2
42.5°	453.4	462.9	480.2	500.1	507.9
45°	430.1	438.8	460.3	482.8	491.4
47.5°	405.0	415.4	438.8	465.5	475.8
50°	378.3	391.2	418.0	447.4	458.6
52.5°	351.5	366.1	396.4	429.3	441.3
55°	325.6	339.4	375.6	411.1	424.0
57.5°	297.1	314.3	354.1	392.1	405.0
60°	267.8	286.8	332.5	372.2	386.0
62.5°	238.4	260.0	311.8	351.5	366.1
65°	209.0	233.2	287.6	329.9	344.6
67.5°	180.5	207.3	265.1	307.5	322.1
70°	147.7	181.4	241.0	282.4	297.1
72.5°	117.5	156.4	217.7	256.6	269.5
75°	90.7	132.1	191.7	227.2	232.3
77.5°	66.5	108.0	164.9	177.1	177.9
80°	44.9	86.4	126.1	124.3	126.1
82.5°	29.4	64.7	79.5	89.0	89.8
85°	17.3	38.0	46.7	51.8	52.7
87.5°	8.7	12.9	16.4	17.3	19.0
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)