

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: P733953

Luminaire Tested: **24FCZ2-30-HRP-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733953
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-CP250-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND HRP LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

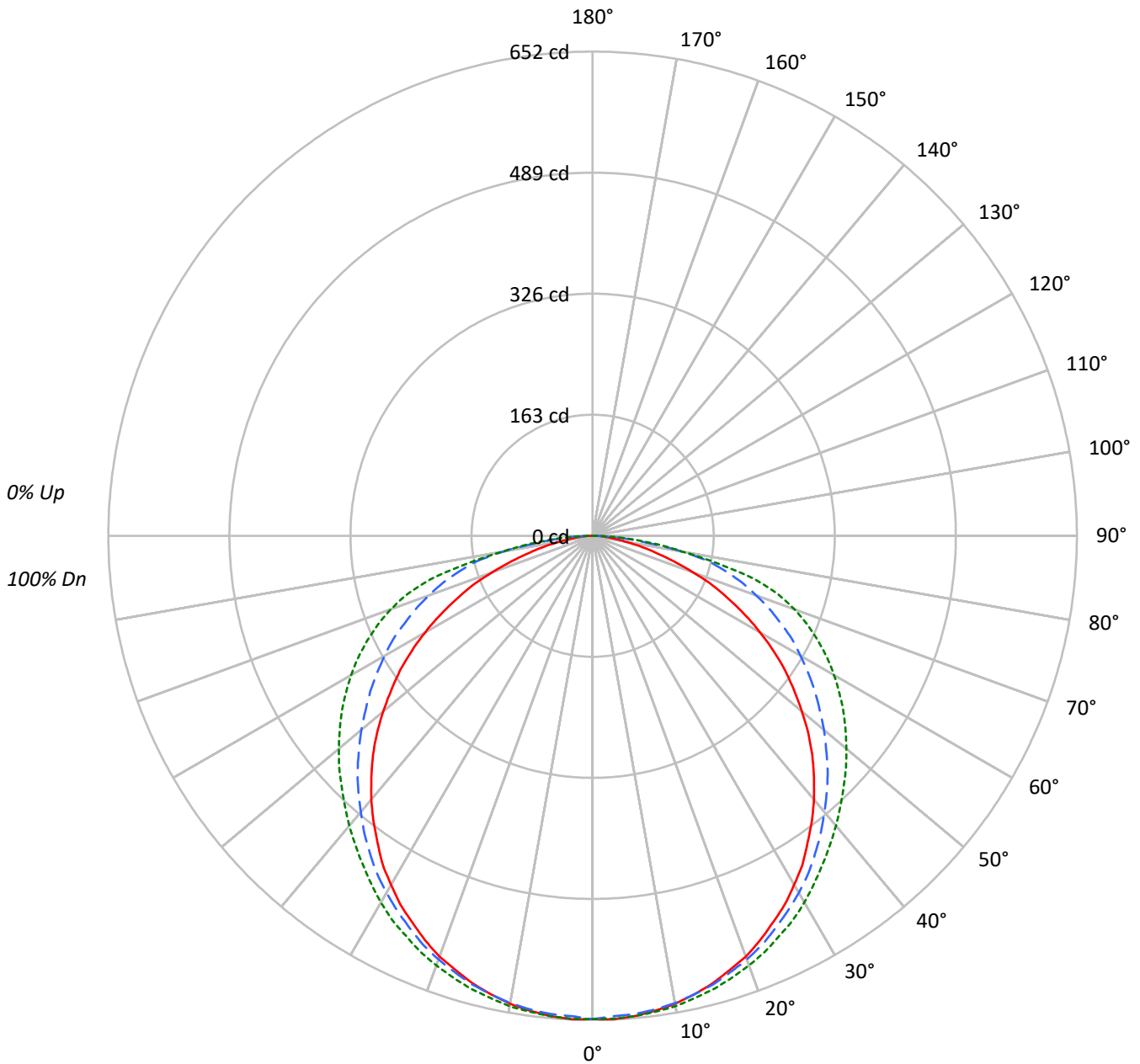
Lumens per Lamp: N/A
Luminaire Lumens: 2006.0 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	919	919	919
5°	920	916	920
10°	917	916	922
15°	912	914	923
20°	906	912	925
25°	894	908	926
30°	884	905	929
35°	870	900	930
40°	854	894	939
45°	835	893	954
50°	808	893	979
55°	779	899	1015
60°	735	913	1059
65°	679	934	1119
70°	593	967	1192
75°	481	1016	1232
80°	354	997	997
85°	272	735	829



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	3.1
10°-20°	177.1	8.8
20°-30°	269.5	13.4
30°-40°	327.3	16.3
40°-50°	345.8	17.2
50°-60°	326.3	16.3
60°-70°	271.3	13.5
70°-80°	178.5	8.9
80°-90°	48.7	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°	508.2	25.3
0°-40°	835.5	41.7
0°-60°	1507.6	75.2
0°-90°	2006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2006.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	651	651	651	651	651	
5°	649	649	647	649	649	62
15°	624	625	626	632	632	176
25°	574	578	583	593	595	265
35°	505	511	522	536	540	316
45°	418	427	448	469	478	322
55°	317	330	365	400	412	282
65°	203	227	280	321	335	201
75°	88	128	186	221	226	95
85°	17	37	45	50	51	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	650.9	650.9	650.9	650.9	650.9
2.5°	651.7	650.9	647.4	650.9	650.9
5°	649.2	649.2	646.6	649.2	649.2
7.5°	645.0	645.0	643.3	646.6	646.6
10°	640.0	640.0	639.0	643.3	643.3
12.5°	632.4	633.2	632.4	637.4	637.4
15°	624.0	624.8	625.6	631.6	631.6
17.5°	613.1	614.7	616.4	623.1	624.0
20°	603.0	603.8	607.1	614.7	615.6
22.5°	589.5	592.1	596.2	603.8	606.3
25°	574.4	577.8	582.8	592.9	594.6
27.5°	560.1	562.7	569.3	580.3	583.7
30°	542.6	546.7	555.1	566.0	570.2
32.5°	525.7	529.9	540.0	551.8	555.1
35°	504.7	510.6	522.4	535.8	540.0
37.5°	484.6	490.4	504.7	519.8	524.9
40°	463.5	470.3	485.4	503.1	509.7
42.5°	440.9	450.1	466.9	486.3	493.8
45°	418.2	426.6	447.6	469.4	477.8
47.5°	393.8	403.9	426.6	452.6	462.7
50°	367.9	380.4	406.5	435.1	446.0
52.5°	341.8	356.0	385.4	417.4	429.1
55°	316.6	330.1	365.3	399.7	412.3
57.5°	288.9	305.7	344.3	381.3	393.8
60°	260.4	278.9	323.3	361.9	375.3
62.5°	231.8	252.8	303.2	341.8	356.0
65°	203.2	226.7	279.7	320.8	335.0
67.5°	175.5	201.6	257.8	299.0	313.2
70°	143.6	176.3	234.3	274.6	288.9
72.5°	114.2	152.0	211.7	249.5	262.0
75°	88.2	128.5	186.4	220.9	225.9
77.5°	64.7	105.0	160.4	172.2	173.0
80°	43.6	84.0	122.7	120.9	122.7
82.5°	28.6	62.9	77.3	86.5	87.3
85°	16.8	37.0	45.4	50.4	51.2
87.5°	8.4	12.6	16.0	16.8	18.5
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)