

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: P734081

Luminaire Tested: **24FCZ2-30HE-HRP-B2750-W2D-CP375-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734081
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-CP375-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND HRP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

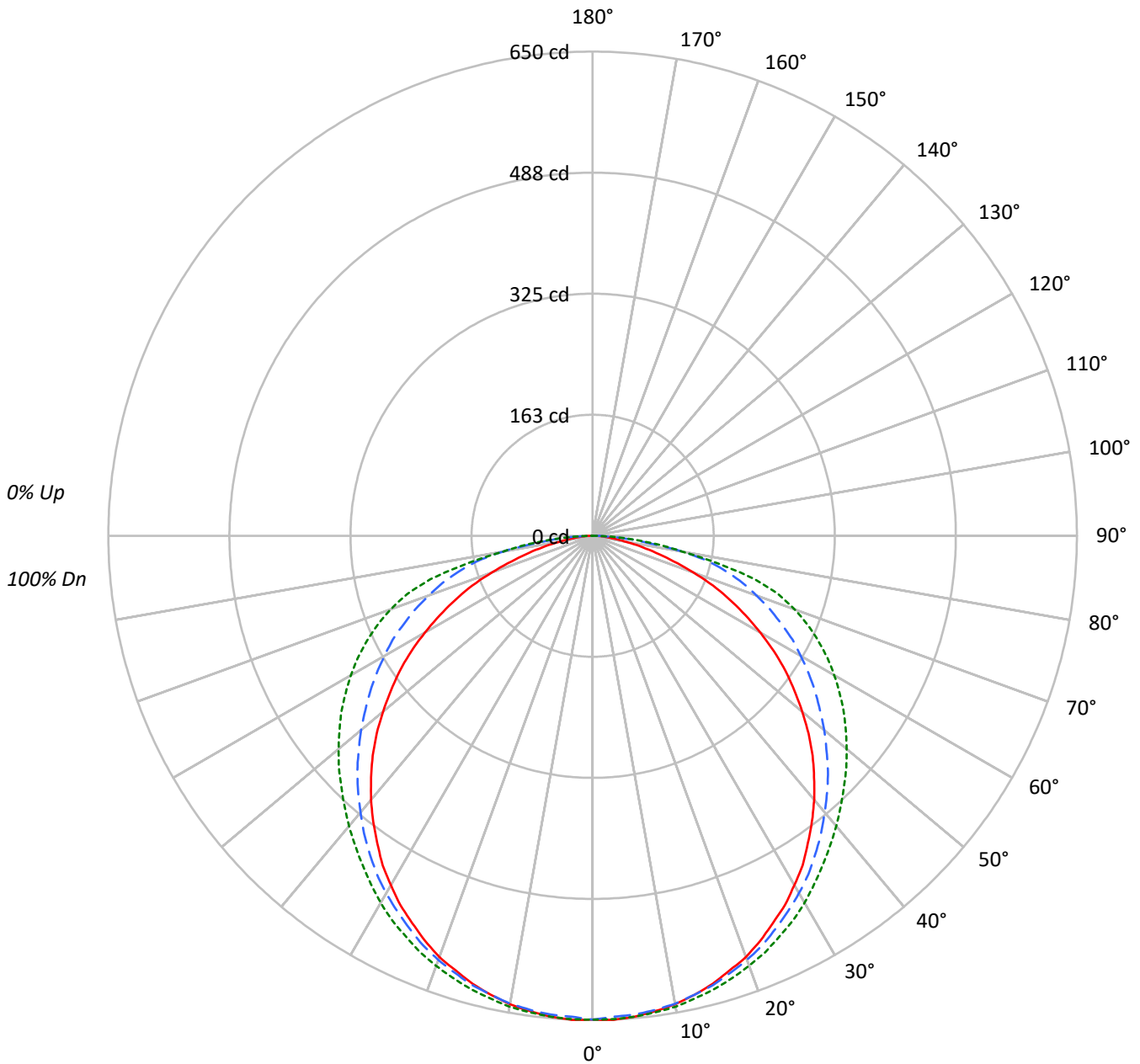
Lumens per Lamp: N/A
Luminaire Lumens: 2002.0 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	917	917	917
5°	918	914	918
10°	915	914	920
15°	910	912	921
20°	904	910	923
25°	893	906	924
30°	882	903	927
35°	868	898	928
40°	852	893	937
45°	833	892	952
50°	806	891	977
55°	777	897	1013
60°	734	911	1057
65°	677	932	1117
70°	591	965	1190
75°	480	1015	1229
80°	354	995	995
85°	272	734	827



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.5	3.1
10°-20°	176.7	8.8
20°-30°	269.0	13.4
30°-40°	326.6	16.3
40°-50°	345.1	17.2
50°-60°	325.6	16.3
60°-70°	270.8	13.5
70°-80°	178.1	8.9
80°-90°	48.6	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°	507.2	25.3
0°-40°	833.9	41.7
0°-60°	1504.5	75.2
0°-90°	2002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2002.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	650	650	650	650	650	
5°	648	648	645	648	648	62
15°	623	624	624	630	630	176
25°	573	577	582	592	593	264
35°	504	510	521	535	539	315
45°	417	426	447	468	477	321
55°	316	329	364	399	412	281
65°	203	226	279	320	334	201
75°	88	128	186	220	225	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°	649.6	649.6	649.6	649.6	649.6
2.5°	650.4	649.6	646.2	649.6	649.6
5°	647.9	647.9	645.3	647.9	647.9
7.5°	643.7	643.7	642.0	645.3	645.3
10°	638.7	638.7	637.8	642.0	642.0
12.5°	631.1	632.0	631.1	636.1	636.1
15°	622.7	623.6	624.4	630.3	630.3
17.5°	611.8	613.5	615.2	621.9	622.7
20°	601.8	602.6	605.9	613.5	614.3
22.5°	588.3	590.9	595.1	602.6	605.1
25°	573.3	576.6	581.7	591.7	593.4
27.5°	559.0	561.6	568.2	579.1	582.5
30°	541.5	545.6	554.0	564.9	569.0
32.5°	524.7	528.8	538.9	550.7	554.0
35°	503.7	509.5	521.4	534.7	538.9
37.5°	483.6	489.4	503.7	518.8	523.8
40°	462.6	469.3	484.5	502.1	508.7
42.5°	440.0	449.2	466.0	485.3	492.9
45°	417.4	425.8	446.7	468.5	476.9
47.5°	393.0	403.1	425.8	451.7	461.8
50°	367.1	379.7	405.7	434.2	445.1
52.5°	341.1	355.3	384.6	416.6	428.3
55°	315.9	329.4	364.5	398.9	411.5
57.5°	288.4	305.0	343.6	380.5	393.0
60°	259.9	278.3	322.7	361.2	374.6
62.5°	231.3	252.3	302.6	341.1	355.3
65°	202.8	226.3	279.1	320.2	334.4
67.5°	175.2	201.2	257.3	298.4	312.6
70°	143.3	176.0	233.8	274.1	288.4
72.5°	114.0	151.7	211.2	249.0	261.5
75°	88.0	128.2	186.1	220.5	225.4
77.5°	64.6	104.8	160.0	171.9	172.7
80°	43.5	83.9	122.4	120.6	122.4
82.5°	28.5	62.8	77.1	86.3	87.2
85°	16.8	36.9	45.3	50.3	51.1
87.5°	8.4	12.5	16.0	16.8	18.4
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)