

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: P734066

Luminaire Tested: **24FCZ2-30HE-HRP-B2750-W2D-CA125-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734066
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-CA125-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND HRP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

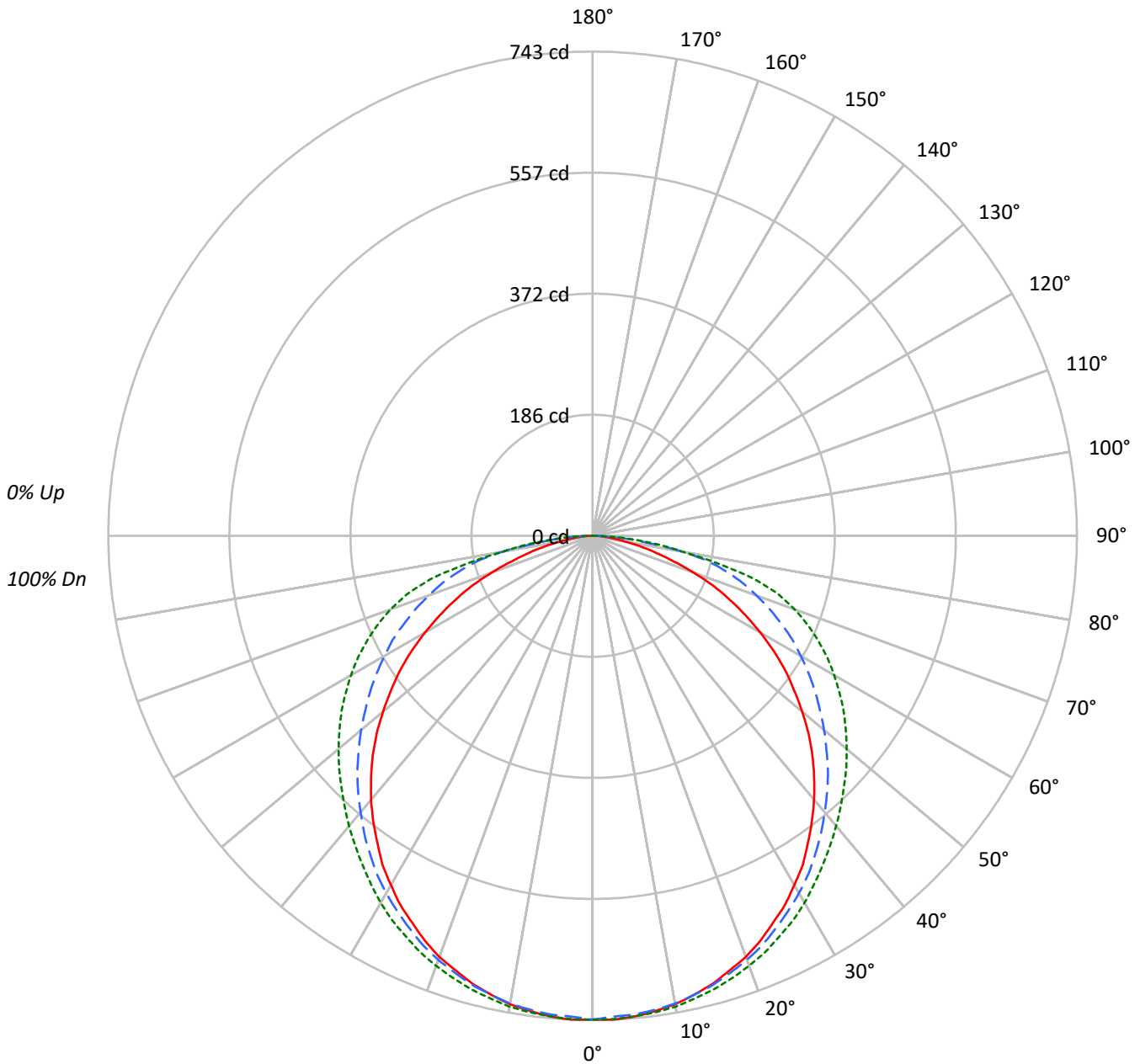
Lumens per Lamp: N/A
Luminaire Lumens: 2288.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1048	1048	1048
5°	1049	1045	1049
10°	1046	1045	1051
15°	1040	1043	1052
20°	1033	1040	1054
25°	1020	1035	1056
30°	1008	1032	1060
35°	992	1027	1061
40°	974	1020	1071
45°	952	1019	1088
50°	921	1018	1117
55°	889	1025	1157
60°	838	1041	1208
65°	774	1065	1276
70°	676	1103	1360
75°	549	1159	1405
80°	405	1137	1137
85°	311	839	946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	3.1
10°-20°	201.9	8.8
20°-30°	307.4	13.4
30°-40°	373.3	16.3
40°-50°	394.4	17.2
50°-60°	372.1	16.3
60°-70°	309.4	13.5
70°-80°	203.6	8.9
80°-90°	55.5	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°	579.7	25.3
0°-40°	953.0	41.7
0°-60°	1719.5	75.2
0°-90°	2288.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2288.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	740	740	738	740	740	70
15°	712	713	714	720	720	201
25°	655	659	665	676	678	302
35°	576	582	596	611	616	360
45°	477	487	511	535	545	367
55°	361	376	417	456	470	322
65°	232	259	319	366	382	229
75°	101	146	213	252	258	108
85°	19	42	52	58	58	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	742.4	742.4	742.4	742.4	742.4
2.5°	743.3	742.4	738.5	742.4	742.4
5°	740.5	740.5	737.5	740.5	740.5
7.5°	735.6	735.6	733.7	737.5	737.5
10°	729.9	729.9	728.9	733.7	733.7
12.5°	721.3	722.2	721.3	727.0	727.0
15°	711.7	712.6	713.6	720.3	720.3
17.5°	699.3	701.1	703.0	710.7	711.7
20°	687.8	688.7	692.5	701.1	702.1
22.5°	672.4	675.3	680.1	688.7	691.6
25°	655.2	659.0	664.8	676.3	678.2
27.5°	638.8	641.8	649.4	661.8	665.7
30°	618.8	623.6	633.2	645.6	650.3
32.5°	599.6	604.4	615.9	629.4	633.2
35°	575.7	582.3	595.8	611.1	615.9
37.5°	552.7	559.4	575.7	592.9	598.7
40°	528.7	536.4	553.7	573.8	581.4
42.5°	502.9	513.4	532.6	554.6	563.3
45°	477.0	486.6	510.6	535.4	545.0
47.5°	449.2	460.7	486.6	516.2	527.7
50°	419.6	433.9	463.6	496.2	508.7
52.5°	389.8	406.1	439.6	476.1	489.5
55°	361.1	376.5	416.6	455.9	470.3
57.5°	329.5	348.6	392.7	434.9	449.2
60°	297.0	318.1	368.8	412.8	428.1
62.5°	264.4	288.3	345.8	389.8	406.1
65°	231.8	258.6	319.0	365.9	382.1
67.5°	200.2	229.9	294.0	341.0	357.3
70°	163.8	201.1	267.2	313.2	329.5
72.5°	130.3	173.4	241.4	284.5	298.9
75°	100.6	146.5	212.6	252.0	257.6
77.5°	73.8	119.8	182.9	196.4	197.3
80°	49.8	95.8	139.9	137.9	139.9
82.5°	32.6	71.8	88.1	98.7	99.6
85°	19.2	42.2	51.8	57.5	58.4
87.5°	9.6	14.3	18.2	19.2	21.1
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)