

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: P734070

Luminaire Tested: **24FCZ2-30HE-HRP-B2750-W2D-CA125-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734070
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-CA125-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND HRP LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

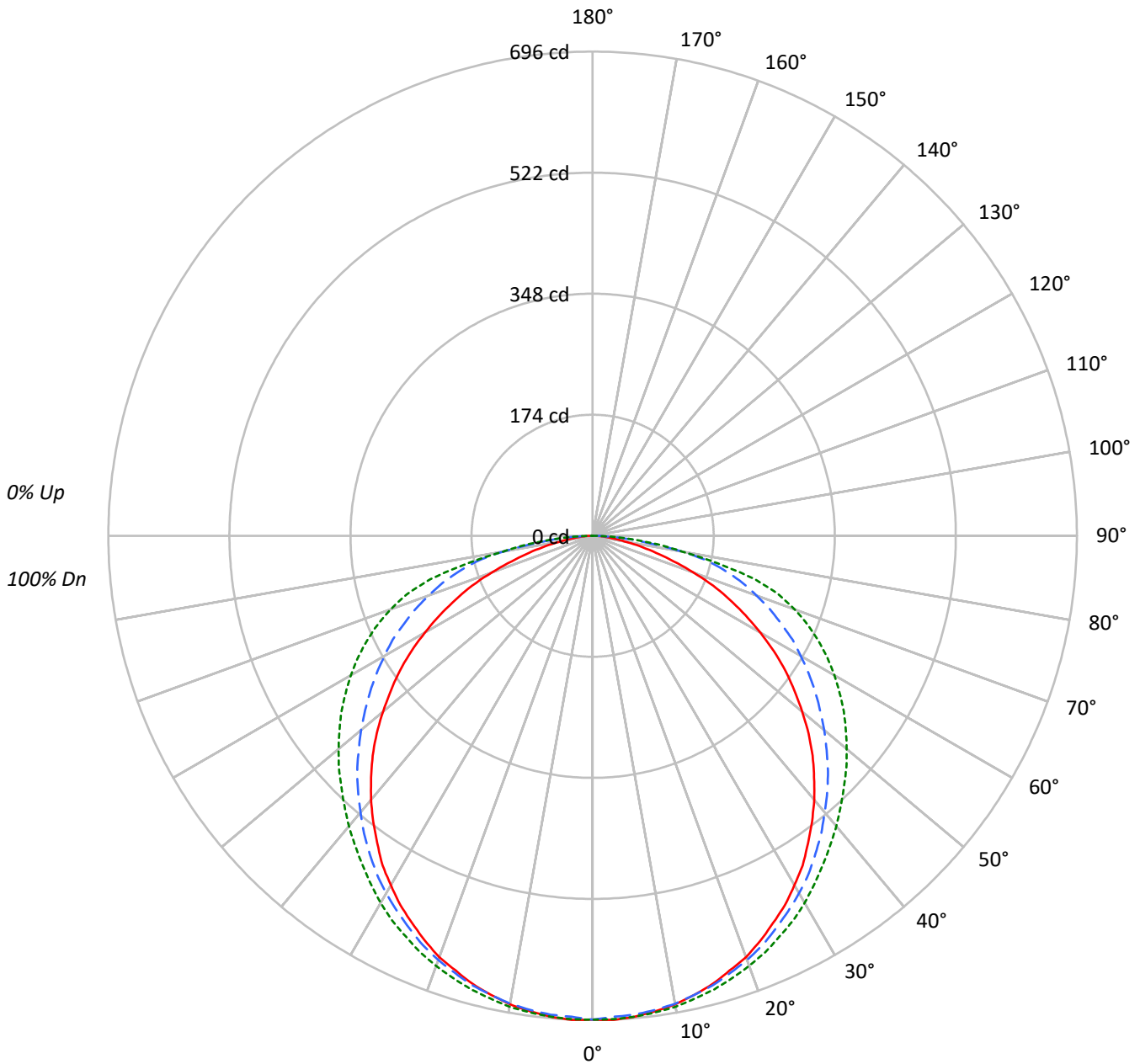
Lumens per Lamp: N/A
Luminaire Lumens: 2144.0 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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									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°	982	982	982
5°	983	979	983
10°	980	979	985
15°	974	977	986
20°	968	975	988
25°	956	970	990
30°	945	967	993
35°	930	962	994
40°	913	956	1004
45°	892	955	1019
50°	863	954	1046
55°	832	961	1084
60°	786	975	1132
65°	725	998	1196
70°	633	1033	1274
75°	514	1086	1316
80°	379	1066	1066
85°	291	785	886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	3.1
10°-20°	189.2	8.8
20°-30°	288.1	13.4
30°-40°	349.8	16.3
40°-50°	369.6	17.2
50°-60°	348.7	16.3
60°-70°	289.9	13.5
70°-80°	190.8	8.9
80°-90°	52.0	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°	543.2	25.3
0°-40°	893.0	41.7
0°-60°	1611.3	75.2
0°-90°	2144.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2144.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	694	694	691	694	694	66
15°	667	668	669	675	675	188
25°	614	618	623	634	636	283
35°	540	546	558	573	577	338
45°	447	456	478	502	511	344
55°	338	353	390	427	441	301
65°	217	242	299	343	358	215
75°	94	137	199	236	241	102
85°	18	40	48	54	55	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	695.6	695.6	695.6	695.6	695.6
2.5°	696.5	695.6	692.0	695.6	695.6
5°	693.9	693.9	691.1	693.9	693.9
7.5°	689.3	689.3	687.5	691.1	691.1
10°	684.0	684.0	683.0	687.5	687.5
12.5°	675.9	676.8	675.9	681.2	681.2
15°	666.9	667.8	668.7	675.0	675.0
17.5°	655.2	657.0	658.8	666.0	666.9
20°	644.5	645.4	648.9	657.0	657.9
22.5°	630.0	632.8	637.3	645.4	648.0
25°	614.0	617.5	622.9	633.7	635.5
27.5°	598.6	601.4	608.5	620.2	623.8
30°	579.9	584.3	593.3	605.0	609.4
32.5°	561.9	566.3	577.1	589.8	593.3
35°	539.5	545.7	558.3	572.7	577.1
37.5°	517.9	524.2	539.5	555.6	561.0
40°	495.4	502.6	518.8	537.7	544.8
42.5°	471.2	481.1	499.1	519.7	527.8
45°	447.0	456.0	478.4	501.7	510.7
47.5°	420.9	431.7	456.0	483.7	494.5
50°	393.2	406.6	434.5	465.0	476.6
52.5°	365.3	380.5	411.9	446.1	458.7
55°	338.3	352.8	390.4	427.2	440.7
57.5°	308.8	326.7	368.0	407.5	420.9
60°	278.3	298.0	345.5	386.8	401.2
62.5°	247.8	270.2	324.0	365.3	380.5
65°	217.2	242.3	298.9	342.9	358.1
67.5°	187.6	215.5	275.5	319.6	334.8
70°	153.5	188.5	250.4	293.5	308.8
72.5°	122.1	162.5	226.2	266.6	280.1
75°	94.2	137.3	199.2	236.1	241.4
77.5°	69.2	112.2	171.4	184.0	184.9
80°	46.6	89.8	131.1	129.2	131.1
82.5°	30.5	67.3	82.6	92.5	93.4
85°	18.0	39.5	48.5	53.8	54.7
87.5°	9.0	13.4	17.1	18.0	19.8
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)