

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: P734117

Luminaire Tested: **24FCZ2-30HE-S-B2750-W2D-CA125-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30HE-S-B2750-W2D-CA125-3000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND SMOOTH LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

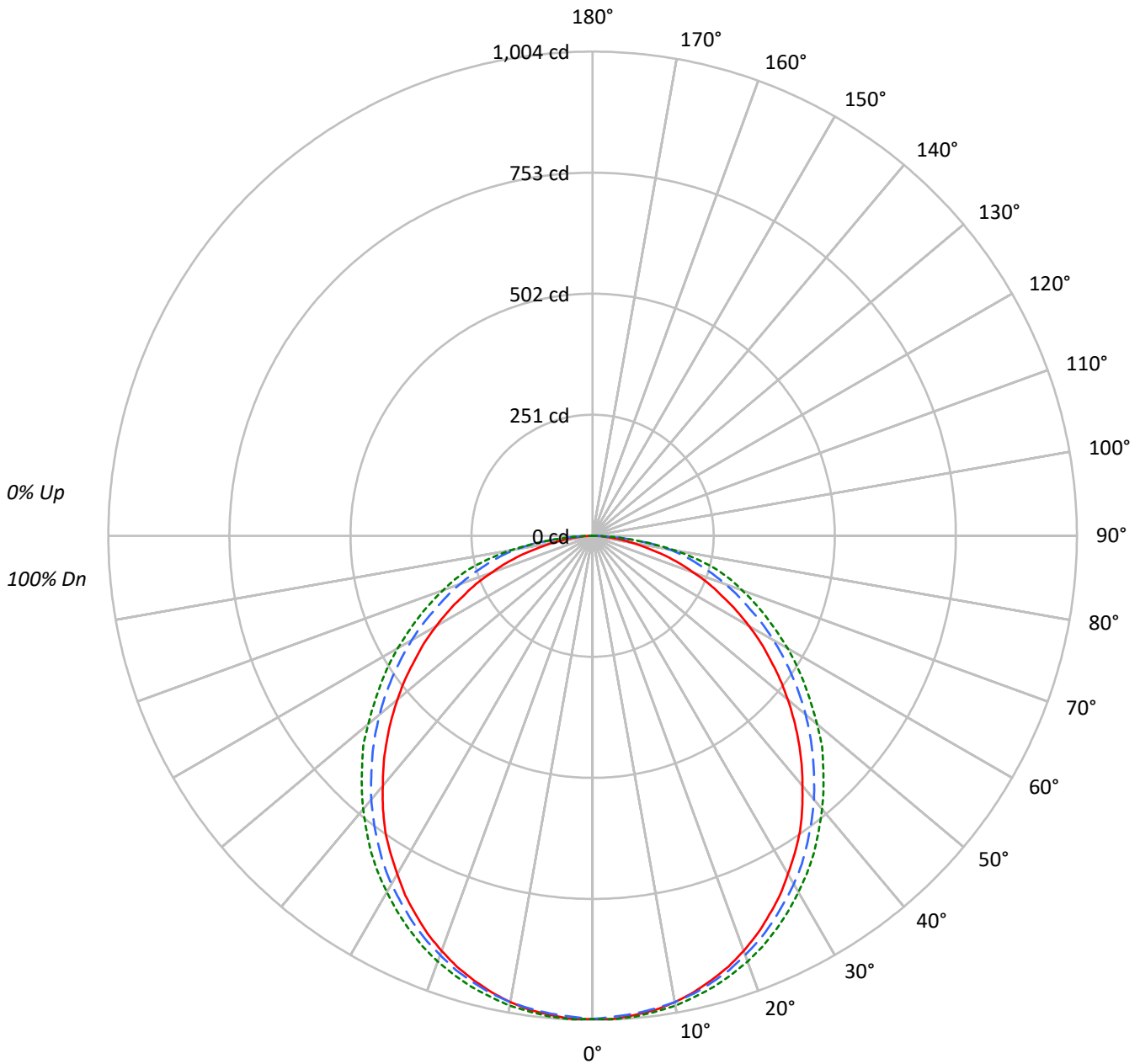
Lumens per Lamp: N/A
Luminaire Lumens: 2852.0 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1414	1414	1414
5°	1413	1409	1418
10°	1407	1407	1418
15°	1394	1400	1415
20°	1376	1389	1411
25°	1350	1375	1402
30°	1320	1360	1391
35°	1291	1338	1380
40°	1247	1315	1364
45°	1206	1289	1349
50°	1160	1265	1333
55°	1108	1242	1320
60°	1056	1222	1317
65°	989	1201	1325
70°	916	1207	1361
75°	820	1230	1437
80°	662	1303	1406
85°	499	1143	1116



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	3.3
10°-20°	271.0	9.5
20°-30°	407.4	14.3
30°-40°	485.3	17.0
40°-50°	496.7	17.4
50°-60°	447.2	15.7
60°-70°	351.2	12.3
70°-80°	227.9	8.0
80°-90°	70.5	2.5
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°	773.3	27.1
0°-40°	1258.6	44.1
0°-60°	2202.4	77.2
0°-90°	2852.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2852.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	997	999	995	1000	1001	95
15°	954	957	958	967	968	269
25°	867	874	883	898	900	399
35°	749	758	776	795	801	467
45°	604	619	646	670	676	466
55°	450	470	505	531	536	404
65°	296	319	360	390	397	295
75°	150	179	226	256	264	159
85°	31	57	71	69	69	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1002.0	1002.0	1002.0	1002.0	1002.0
2.5°	1002.8	1002.8	998.3	1002.8	1003.7
5°	997.4	999.2	994.7	1000.1	1001.0
7.5°	991.9	991.9	989.2	994.7	995.6
10°	982.0	982.9	982.0	988.3	989.2
12.5°	969.3	971.1	972.1	978.4	979.3
15°	953.9	956.7	958.4	966.6	968.5
17.5°	936.7	939.4	943.9	953.0	954.8
20°	915.9	919.5	924.9	936.7	939.4
22.5°	893.3	896.9	905.9	916.7	921.3
25°	867.0	874.2	883.2	897.7	900.5
27.5°	840.7	847.0	858.8	874.2	877.9
30°	809.9	819.8	834.3	849.7	853.3
32.5°	780.0	789.9	807.1	823.5	828.0
35°	749.2	758.2	776.4	795.4	800.8
37.5°	713.8	725.6	745.6	764.6	770.0
40°	676.7	691.2	713.8	733.8	740.1
42.5°	641.3	656.7	679.4	701.2	708.4
45°	604.2	618.8	645.9	670.4	675.8
47.5°	566.1	582.5	611.4	635.9	645.0
50°	528.2	545.4	576.2	601.5	607.0
52.5°	490.1	508.2	540.8	568.0	570.7
55°	450.2	470.2	504.6	530.9	536.4
57.5°	414.0	431.2	468.4	495.5	501.9
60°	374.2	393.1	433.0	458.4	466.5
62.5°	336.1	356.0	397.7	423.1	430.3
65°	296.2	318.9	359.6	389.5	396.8
67.5°	261.8	283.6	327.0	356.0	363.2
70°	221.9	246.5	292.6	322.5	329.7
72.5°	187.5	212.8	259.1	288.0	299.0
75°	150.4	179.3	225.6	256.4	263.6
77.5°	114.2	147.7	194.7	218.3	218.3
80°	81.5	116.9	160.3	171.3	173.0
82.5°	53.5	87.9	118.6	117.8	117.8
85°	30.8	57.1	70.6	68.9	68.9
87.5°	11.8	23.6	25.3	25.3	24.4
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)