

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: P734040

Luminaire Tested: **24FCZ2-30HE-B2750-W2D-CA08-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272053)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30HE-B2750-W2D-CA08-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

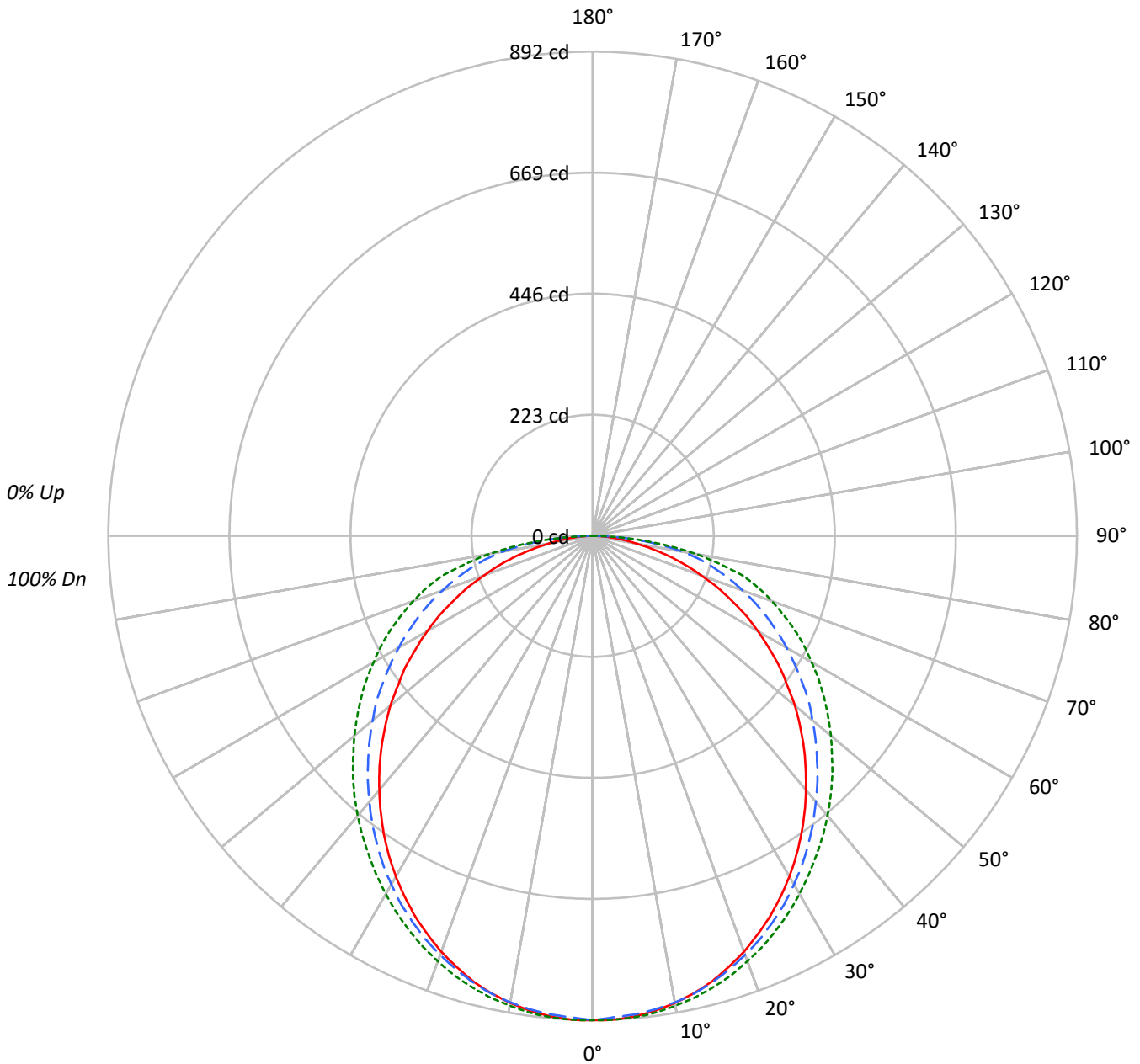
Lumens per Lamp: N/A
Luminaire Lumens: 2658.0 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	100	96	92	96	93	89	92	89	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	60	68	63	58	56																			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	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	39	50	44	38	49	43	38	36																			
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25																			
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1260	1260	1260
5°	1259	1254	1262
10°	1252	1251	1260
15°	1242	1244	1257
20°	1225	1234	1252
25°	1205	1223	1247
30°	1181	1209	1242
35°	1155	1194	1238
40°	1126	1178	1240
45°	1098	1167	1246
50°	1068	1161	1258
55°	1035	1159	1281
60°	994	1164	1315
65°	942	1182	1372
70°	875	1212	1450
75°	798	1272	1572
80°	656	1369	1572
85°	502	1265	1351



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	3.2
10°-20°	241.0	9.1
20°-30°	362.6	13.6
30°-40°	434.5	16.3
40°-50°	452.8	17.0
50°-60°	421.3	15.9
60°-70°	347.0	13.1
70°-80°	236.3	8.9
80°-90°	78.0	2.9
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°	688.0	25.9
0°-40°	1122.5	42.2
0°-60°	1996.6	75.1
0°-90°	2658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2658.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	892	892	892	892	892	
5°	889	889	885	890	891	84
15°	850	851	852	860	860	239
25°	774	777	785	798	801	356
35°	671	679	693	711	718	419
45°	550	562	585	614	624	424
55°	420	435	471	508	521	375
65°	282	306	354	396	411	280
75°	146	179	233	275	288	154
85°	31	60	78	83	83	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	892.5	892.5	892.5	892.5	892.5
2.5°	892.5	892.5	888.0	892.5	892.5
5°	888.8	888.8	885.3	889.8	890.6
7.5°	882.6	883.6	880.1	885.3	886.3
10°	873.7	874.7	872.9	878.2	879.1
12.5°	863.2	864.0	864.0	870.2	871.2
15°	849.8	850.8	851.6	859.6	860.5
17.5°	833.0	835.7	837.4	847.2	848.9
20°	815.3	817.9	821.5	832.0	833.9
22.5°	794.8	798.4	804.6	816.1	818.8
25°	773.6	777.1	785.1	798.4	801.0
27.5°	749.6	755.0	764.7	778.9	782.4
30°	724.8	730.0	741.6	756.7	762.0
32.5°	698.2	705.2	718.5	735.4	740.7
35°	670.6	678.6	692.8	711.4	718.5
37.5°	641.4	650.3	667.1	687.5	696.4
40°	611.3	621.8	639.6	663.5	673.3
42.5°	581.0	590.8	613.0	638.7	649.3
45°	550.0	561.5	584.6	613.8	624.5
47.5°	518.0	529.6	557.0	588.2	597.9
50°	486.2	497.7	528.7	561.5	573.1
52.5°	451.5	466.6	502.1	534.9	546.5
55°	420.5	434.6	471.1	508.3	520.7
57.5°	385.0	401.8	441.8	480.8	494.1
60°	352.2	369.9	412.5	452.4	465.7
62.5°	318.5	338.0	383.2	424.0	439.1
65°	282.1	306.0	353.9	395.6	410.7
67.5°	249.2	274.1	324.7	367.3	380.5
70°	212.0	242.2	293.6	336.3	351.3
72.5°	180.1	210.2	264.3	306.0	321.1
75°	146.4	179.2	233.3	275.0	288.3
77.5°	112.7	149.0	203.1	235.1	239.5
80°	80.7	118.9	168.5	187.2	193.4
82.5°	56.8	91.4	124.2	136.6	140.2
85°	31.0	60.3	78.1	83.4	83.4
87.5°	13.3	25.8	31.0	32.0	32.8
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)