

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: P734115

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734115
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-CA08-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND SMOOTH LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

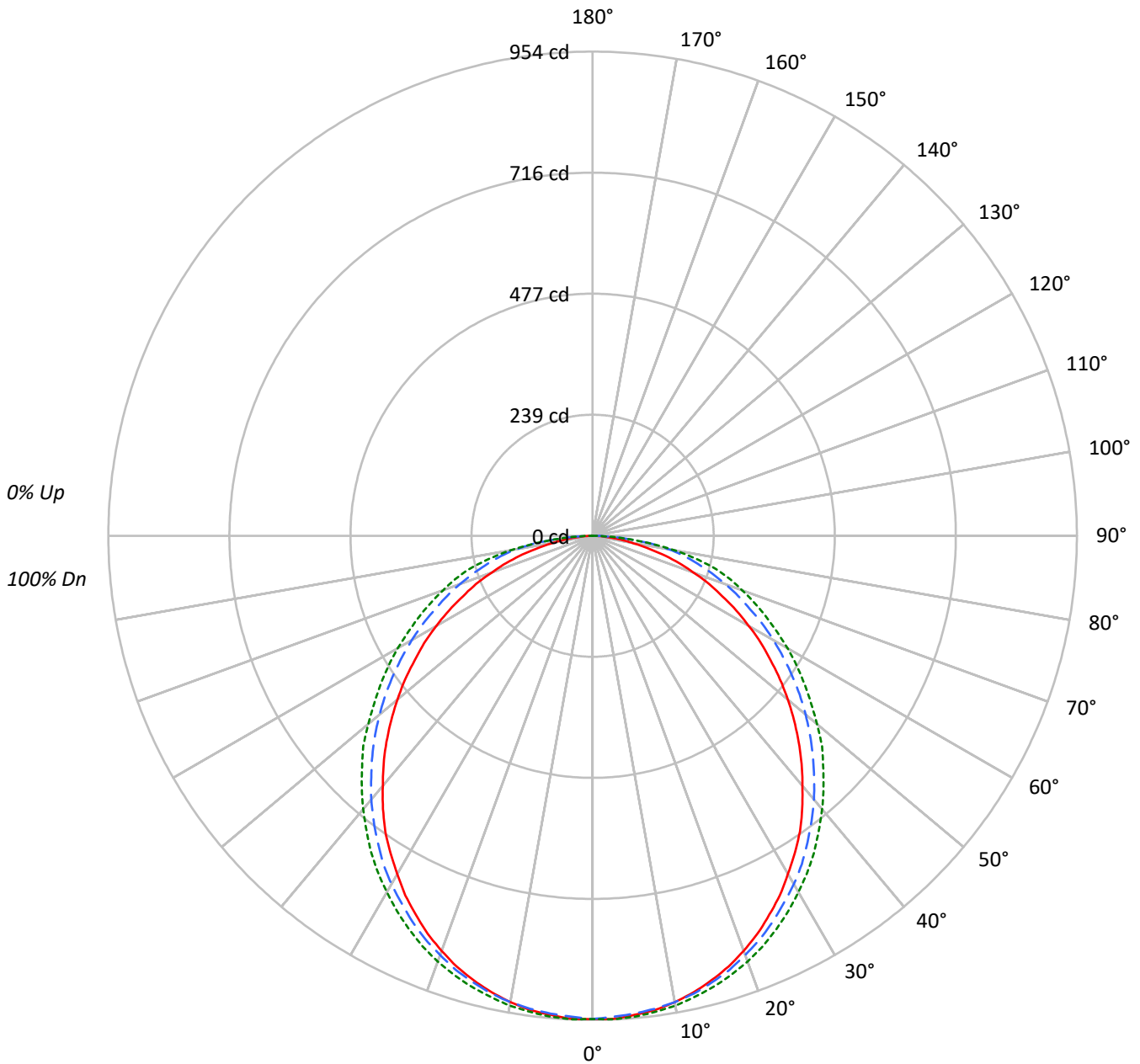
Lumens per Lamp: N/A
Luminaire Lumens: 2710.0 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1344	1344	1344
5°	1343	1339	1348
10°	1337	1337	1347
15°	1325	1331	1345
20°	1307	1320	1341
25°	1283	1307	1332
30°	1254	1292	1321
35°	1227	1271	1311
40°	1185	1250	1296
45°	1146	1225	1282
50°	1102	1202	1266
55°	1053	1180	1254
60°	1003	1161	1251
65°	940	1141	1259
70°	870	1148	1293
75°	779	1169	1366
80°	630	1239	1336
85°	473	1087	1059



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	3.3
10°-20°	257.5	9.5
20°-30°	387.1	14.3
30°-40°	461.1	17.0
40°-50°	472.0	17.4
50°-60°	424.9	15.7
60°-70°	333.7	12.3
70°-80°	216.6	8.0
80°-90°	67.0	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°	734.8	27.1
0°-40°	1195.9	44.1
0°-60°	2092.8	77.2
0°-90°	2710.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2710.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	948	950	945	950	951	90
15°	906	909	911	918	920	256
25°	824	831	839	853	856	380
35°	712	720	738	756	761	444
45°	574	588	614	637	642	443
55°	428	447	480	504	510	384
65°	282	303	342	370	377	280
75°	143	170	214	244	250	151
85°	29	54	67	65	65	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	952.1	952.1	952.1	952.1	952.1
2.5°	952.9	952.9	948.6	952.9	953.7
5°	947.7	949.5	945.1	950.3	951.2
7.5°	942.5	942.5	940.0	945.1	946.1
10°	933.1	933.9	933.1	939.1	940.0
12.5°	921.1	922.7	923.7	929.7	930.5
15°	906.5	909.0	910.7	918.5	920.2
17.5°	890.1	892.7	896.9	905.5	907.3
20°	870.3	873.7	878.9	890.1	892.7
22.5°	848.8	852.2	860.8	871.1	875.4
25°	823.8	830.6	839.2	853.0	855.6
27.5°	798.8	804.8	816.0	830.6	834.2
30°	769.6	779.0	792.8	807.4	810.8
32.5°	741.1	750.6	767.0	782.5	786.8
35°	711.9	720.5	737.7	755.8	760.9
37.5°	678.3	689.5	708.5	726.5	731.7
40°	643.0	656.8	678.3	697.3	703.3
42.5°	609.4	624.0	645.6	666.3	673.1
45°	574.2	587.9	613.8	637.0	642.2
47.5°	538.0	553.5	581.0	604.2	612.8
50°	501.9	518.3	547.5	571.6	576.7
52.5°	465.7	482.9	513.9	539.7	542.3
55°	427.8	446.8	479.5	504.5	509.6
57.5°	393.4	409.8	445.0	470.9	476.9
60°	355.5	373.6	411.4	435.6	443.3
62.5°	319.3	338.3	377.9	402.0	408.8
65°	281.5	303.0	341.7	370.2	377.0
67.5°	248.8	269.4	310.7	338.3	345.2
70°	210.8	234.2	278.1	306.5	313.3
72.5°	178.2	202.2	246.2	273.7	284.1
75°	142.9	170.4	214.4	243.6	250.5
77.5°	108.5	140.3	185.0	207.4	207.4
80°	77.5	111.1	152.4	162.7	164.4
82.5°	50.8	83.5	112.7	111.9	111.9
85°	29.2	54.2	67.1	65.4	65.4
87.5°	11.2	22.4	24.1	24.1	23.2
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)