

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: P734036

Luminaire Tested: **24FCZ2-30HE-B2750-W2D-CA08-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734036
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-CA08-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

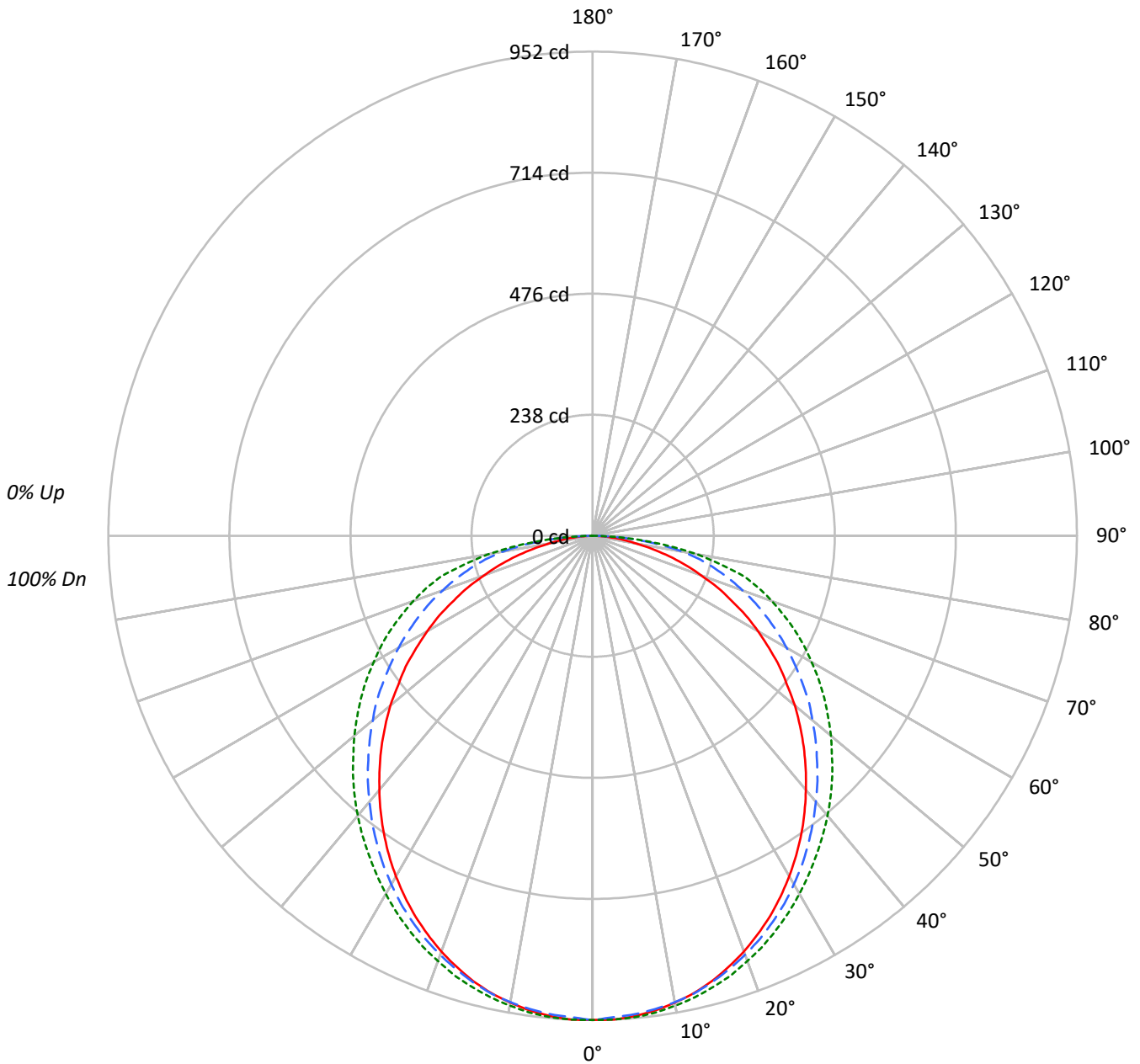
Lumens per Lamp: N/A
Luminaire Lumens: 2836.0 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1344	1344	1344
5°	1343	1338	1346
10°	1336	1335	1344
15°	1325	1328	1341
20°	1307	1316	1336
25°	1285	1305	1331
30°	1260	1290	1325
35°	1233	1274	1321
40°	1202	1257	1324
45°	1171	1245	1330
50°	1139	1239	1343
55°	1104	1237	1367
60°	1061	1242	1403
65°	1005	1261	1463
70°	933	1293	1547
75°	852	1357	1677
80°	700	1461	1678
85°	536	1349	1441



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	3.2
10°-20°	257.1	9.1
20°-30°	386.9	13.6
30°-40°	463.6	16.3
40°-50°	483.2	17.0
50°-60°	449.5	15.9
60°-70°	370.2	13.1
70°-80°	252.2	8.9
80°-90°	83.3	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°	734.0	25.9
0°-40°	1197.7	42.2
0°-60°	2130.3	75.1
0°-90°	2836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2836.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	948	948	945	949	950	90
15°	907	908	909	917	918	255
25°	825	829	838	852	855	380
35°	716	724	739	759	767	447
45°	587	599	624	655	666	453
55°	449	464	503	542	556	400
65°	301	326	378	422	438	299
75°	156	191	249	293	308	165
85°	33	64	83	89	89	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	952.2	952.2	952.2	952.2	952.2
2.5°	952.2	952.2	947.4	952.2	952.2
5°	948.3	948.3	944.6	949.4	950.3
7.5°	941.7	942.8	939.0	944.6	945.6
10°	932.3	933.3	931.3	937.0	938.0
12.5°	921.0	921.9	921.9	928.5	929.5
15°	906.7	907.7	908.6	917.2	918.1
17.5°	888.8	891.6	893.5	904.0	905.8
20°	869.9	872.7	876.5	887.8	889.7
22.5°	848.1	851.8	858.4	870.8	873.6
25°	825.4	829.1	837.7	851.8	854.7
27.5°	799.8	805.5	815.9	831.1	834.8
30°	773.3	778.9	791.3	807.3	813.0
32.5°	744.9	752.5	766.6	784.6	790.3
35°	715.5	724.1	739.2	759.1	766.6
37.5°	684.4	693.8	711.7	733.5	743.0
40°	652.2	663.5	682.4	708.0	718.4
42.5°	619.9	630.4	654.0	681.5	692.8
45°	586.8	599.1	623.8	654.9	666.3
47.5°	552.7	565.0	594.4	627.6	637.9
50°	518.7	531.0	564.1	599.1	611.5
52.5°	481.8	497.8	535.7	570.7	583.1
55°	448.7	463.7	502.6	542.3	555.6
57.5°	410.8	428.7	471.4	513.0	527.2
60°	375.8	394.7	440.1	482.7	496.9
62.5°	339.8	360.6	408.9	452.4	468.5
65°	300.9	326.5	377.6	422.1	438.2
67.5°	265.9	292.5	346.5	391.9	406.0
70°	226.2	258.4	313.3	358.8	374.9
72.5°	192.1	224.3	282.0	326.5	342.6
75°	156.2	191.2	248.9	293.4	307.6
77.5°	120.2	159.0	216.8	250.9	255.5
80°	86.1	126.9	179.8	199.8	206.4
82.5°	60.6	97.5	132.6	145.8	149.6
85°	33.1	64.3	83.3	89.0	89.0
87.5°	14.1	27.5	33.1	34.1	35.0
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)