

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: P734111

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734111
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-CA08-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND SMOOTH LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

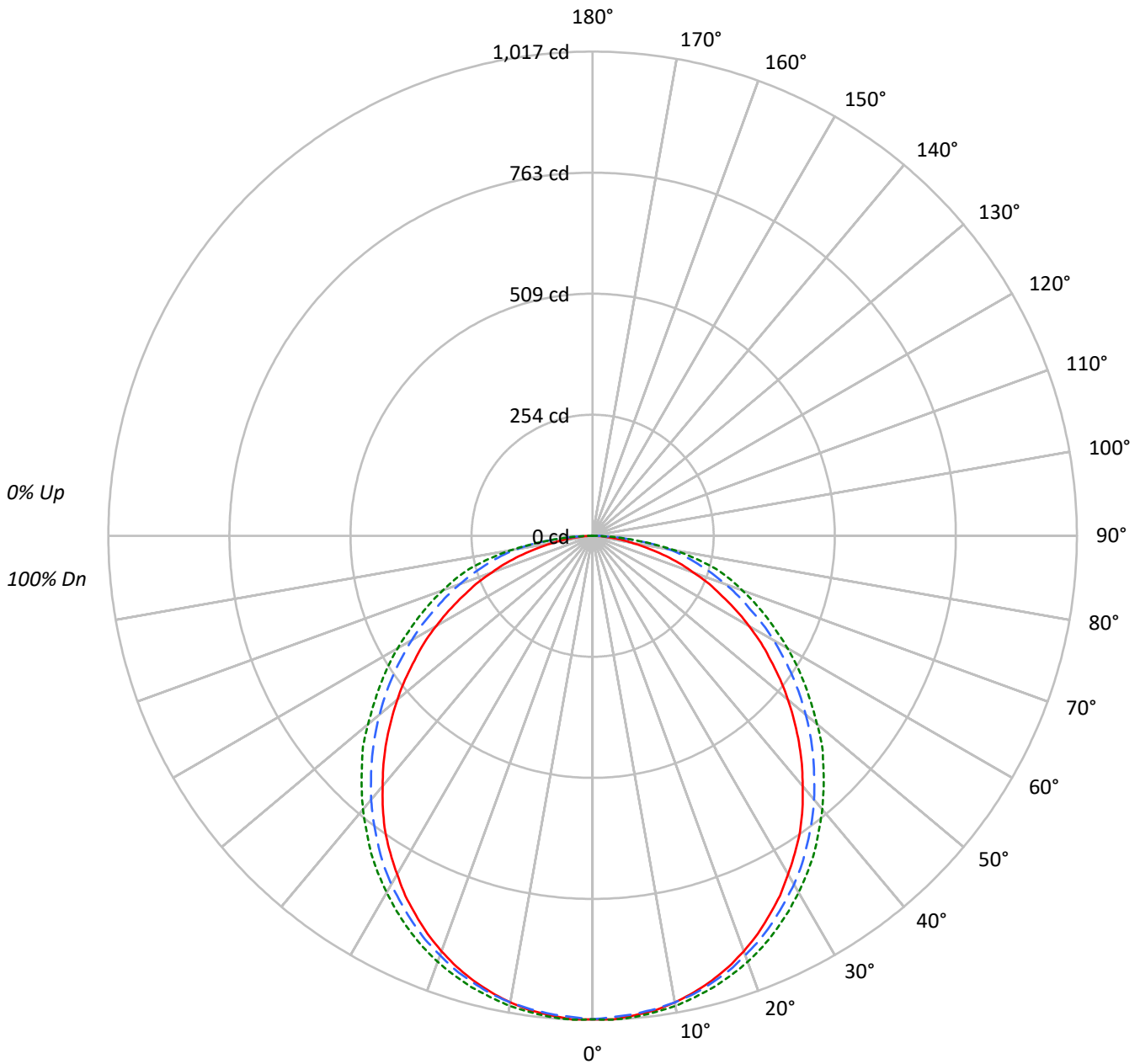
Lumens per Lamp: N/A
Luminaire Lumens: 2891.0 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1433	1433	1433
5°	1432	1428	1438
10°	1427	1427	1437
15°	1413	1419	1434
20°	1394	1408	1430
25°	1369	1394	1421
30°	1338	1378	1410
35°	1308	1356	1399
40°	1264	1333	1382
45°	1223	1307	1367
50°	1176	1282	1351
55°	1123	1259	1338
60°	1071	1239	1335
65°	1003	1218	1343
70°	928	1224	1379
75°	832	1247	1457
80°	671	1321	1426
85°	505	1159	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.1	3.3
10°-20°	274.7	9.5
20°-30°	413.0	14.3
30°-40°	491.9	17.0
40°-50°	503.5	17.4
50°-60°	453.3	15.7
60°-70°	356.0	12.3
70°-80°	231.0	8.0
80°-90°	71.5	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°	783.9	27.1
0°-40°	1275.8	44.1
0°-60°	2232.6	77.2
0°-90°	2891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2891.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	1011	1013	1008	1014	1015	96
15°	967	970	972	980	982	273
25°	879	886	895	910	913	405
35°	759	769	787	806	812	474
45°	612	627	655	680	685	472
55°	456	477	512	538	544	409
65°	300	323	365	395	402	299
75°	152	182	229	260	267	161
85°	31	58	72	70	70	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1015.7	1015.7	1015.7	1015.7	1015.7
2.5°	1016.6	1016.6	1011.9	1016.6	1017.4
5°	1011.0	1012.9	1008.3	1013.8	1014.7
7.5°	1005.5	1005.5	1002.7	1008.3	1009.3
10°	995.4	996.3	995.4	1001.8	1002.7
12.5°	982.6	984.4	985.4	991.8	992.7
15°	967.0	969.8	971.5	979.8	981.7
17.5°	949.5	952.3	956.8	966.0	967.9
20°	928.4	932.0	937.6	949.5	952.3
22.5°	905.5	909.1	918.3	929.3	933.9
25°	878.8	886.1	895.3	910.0	912.8
27.5°	852.1	858.6	870.5	886.1	889.9
30°	820.9	831.0	845.7	861.3	865.0
32.5°	790.6	800.7	818.2	834.8	839.3
35°	759.4	768.6	787.0	806.2	811.8
37.5°	723.6	735.5	755.8	775.0	780.6
40°	686.0	700.7	723.6	743.8	750.2
42.5°	650.1	665.7	688.7	710.8	718.1
45°	612.5	627.2	654.8	679.6	685.1
47.5°	573.9	590.5	619.8	644.6	653.8
50°	535.4	552.9	584.1	609.7	615.3
52.5°	496.8	515.1	548.2	575.8	578.5
55°	456.4	476.6	511.5	538.2	543.7
57.5°	419.7	437.1	474.8	502.3	508.7
60°	379.3	398.5	438.9	464.7	472.9
62.5°	340.7	360.9	403.2	428.8	436.1
65°	300.3	323.3	364.6	394.9	402.2
67.5°	265.4	287.4	331.5	360.9	368.2
70°	224.9	249.8	296.6	326.9	334.2
72.5°	190.1	215.7	262.7	292.0	303.0
75°	152.5	181.8	228.7	259.9	267.2
77.5°	115.7	149.7	197.4	221.3	221.3
80°	82.6	118.5	162.5	173.6	175.4
82.5°	54.2	89.1	120.3	119.4	119.4
85°	31.2	57.9	71.6	69.8	69.8
87.5°	11.9	23.9	25.7	25.7	24.8
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)