

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: P734112

Luminaire Tested: **24FCZ2-30HE-S-B2750-W2D-CA08-3000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P734112
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-CA08-3000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND SMOOTH LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

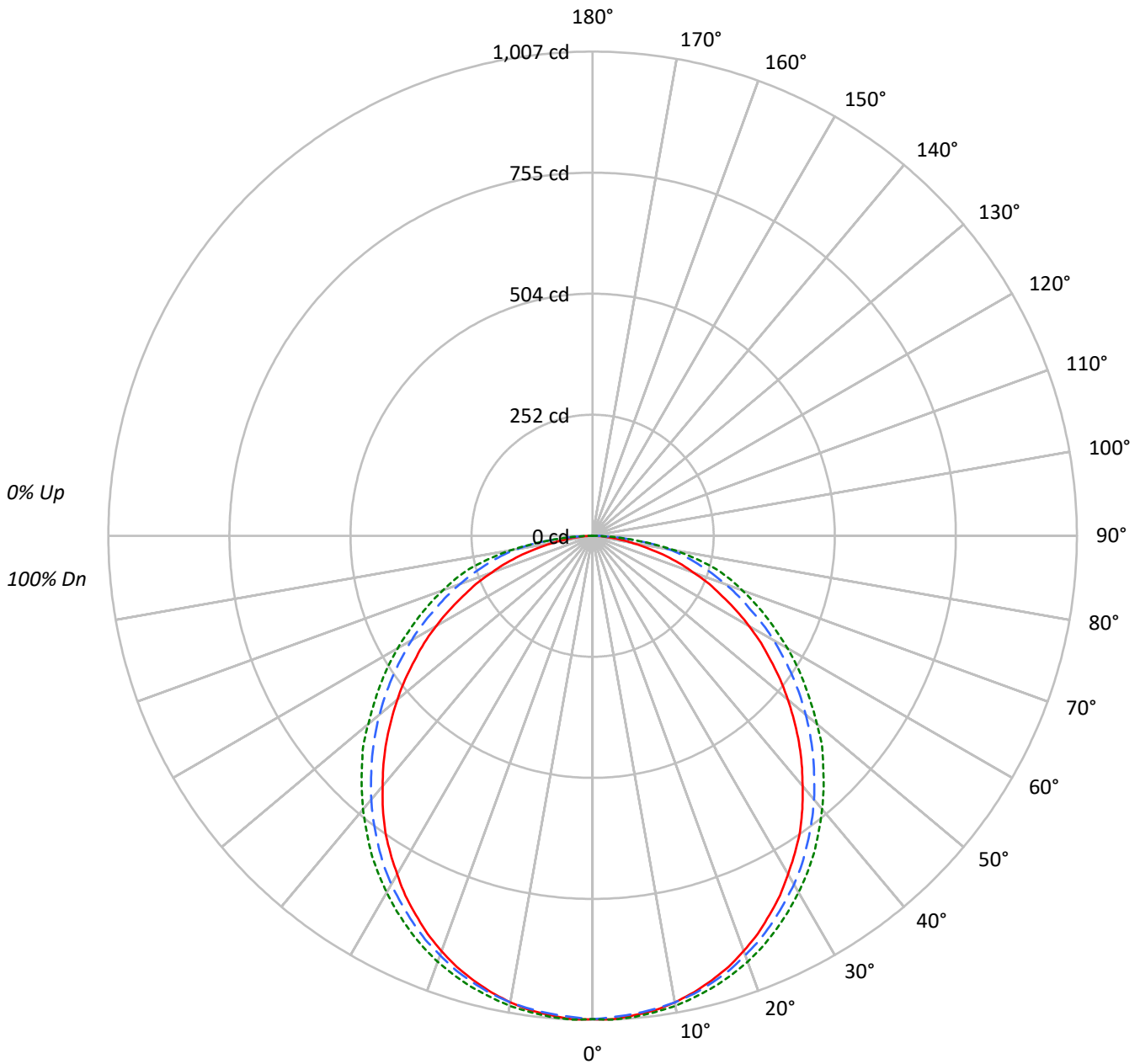
Lumens per Lamp: N/A
Luminaire Lumens: 2862.0 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1419	1419	1419
5°	1418	1414	1423
10°	1412	1412	1423
15°	1399	1405	1420
20°	1380	1394	1416
25°	1355	1380	1407
30°	1324	1364	1395
35°	1295	1342	1385
40°	1251	1320	1368
45°	1210	1294	1354
50°	1164	1270	1337
55°	1112	1246	1324
60°	1060	1226	1321
65°	993	1205	1329
70°	919	1212	1365
75°	823	1235	1442
80°	665	1308	1411
85°	500	1148	1119



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	3.3
10°-20°	272.0	9.5
20°-30°	408.8	14.3
30°-40°	487.0	17.0
40°-50°	498.4	17.4
50°-60°	448.7	15.7
60°-70°	352.4	12.3
70°-80°	228.7	8.0
80°-90°	70.7	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°	776.0	27.1
0°-40°	1263.0	44.1
0°-60°	2210.2	77.2
0°-90°	2862.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2862.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1001	1003	998	1004	1004	95
15°	957	960	962	970	972	270
25°	870	877	886	901	904	401
35°	752	761	779	798	804	469
45°	606	621	648	673	678	467
55°	452	472	506	533	538	405
65°	297	320	361	391	398	296
75°	151	180	226	257	264	160
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°	1005.5	1005.5	1005.5	1005.5	1005.5
2.5°	1006.4	1006.4	1001.8	1006.4	1007.2
5°	1000.9	1002.7	998.1	1003.6	1004.5
7.5°	995.4	995.4	992.7	998.1	999.1
10°	985.4	986.3	985.4	991.8	992.7
12.5°	972.7	974.5	975.5	981.8	982.7
15°	957.3	960.0	961.8	970.0	971.9
17.5°	940.0	942.7	947.2	956.3	958.2
20°	919.1	922.7	928.2	940.0	942.7
22.5°	896.4	900.0	909.1	919.9	924.5
25°	870.0	877.2	886.3	900.9	903.6
27.5°	843.6	850.0	861.8	877.2	881.0
30°	812.7	822.7	837.2	852.7	856.3
32.5°	782.7	792.7	810.0	826.4	830.9
35°	751.8	760.9	779.1	798.1	803.6
37.5°	716.3	728.2	748.2	767.3	772.7
40°	679.1	693.7	716.3	736.4	742.7
42.5°	643.6	659.0	681.8	703.6	710.9
45°	606.4	620.9	648.2	672.7	678.2
47.5°	568.1	584.6	613.6	638.1	647.2
50°	530.0	547.3	578.2	603.6	609.1
52.5°	491.8	510.0	542.7	570.0	572.7
55°	451.8	471.9	506.4	532.8	538.2
57.5°	415.4	432.8	470.0	497.3	503.6
60°	375.5	394.5	434.5	460.0	468.1
62.5°	337.2	357.3	399.1	424.5	431.8
65°	297.3	320.0	360.9	390.9	398.1
67.5°	262.8	284.6	328.2	357.3	364.5
70°	222.7	247.3	293.7	323.7	330.9
72.5°	188.2	213.6	260.0	289.0	300.0
75°	150.9	180.0	226.4	257.3	264.5
77.5°	114.6	148.2	195.4	219.1	219.1
80°	81.8	117.3	160.9	171.9	173.6
82.5°	53.7	88.2	119.1	118.2	118.2
85°	30.9	57.3	70.9	69.1	69.1
87.5°	11.8	23.7	25.4	25.4	24.5
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)