

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: P734037

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734037
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-CA08-3000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

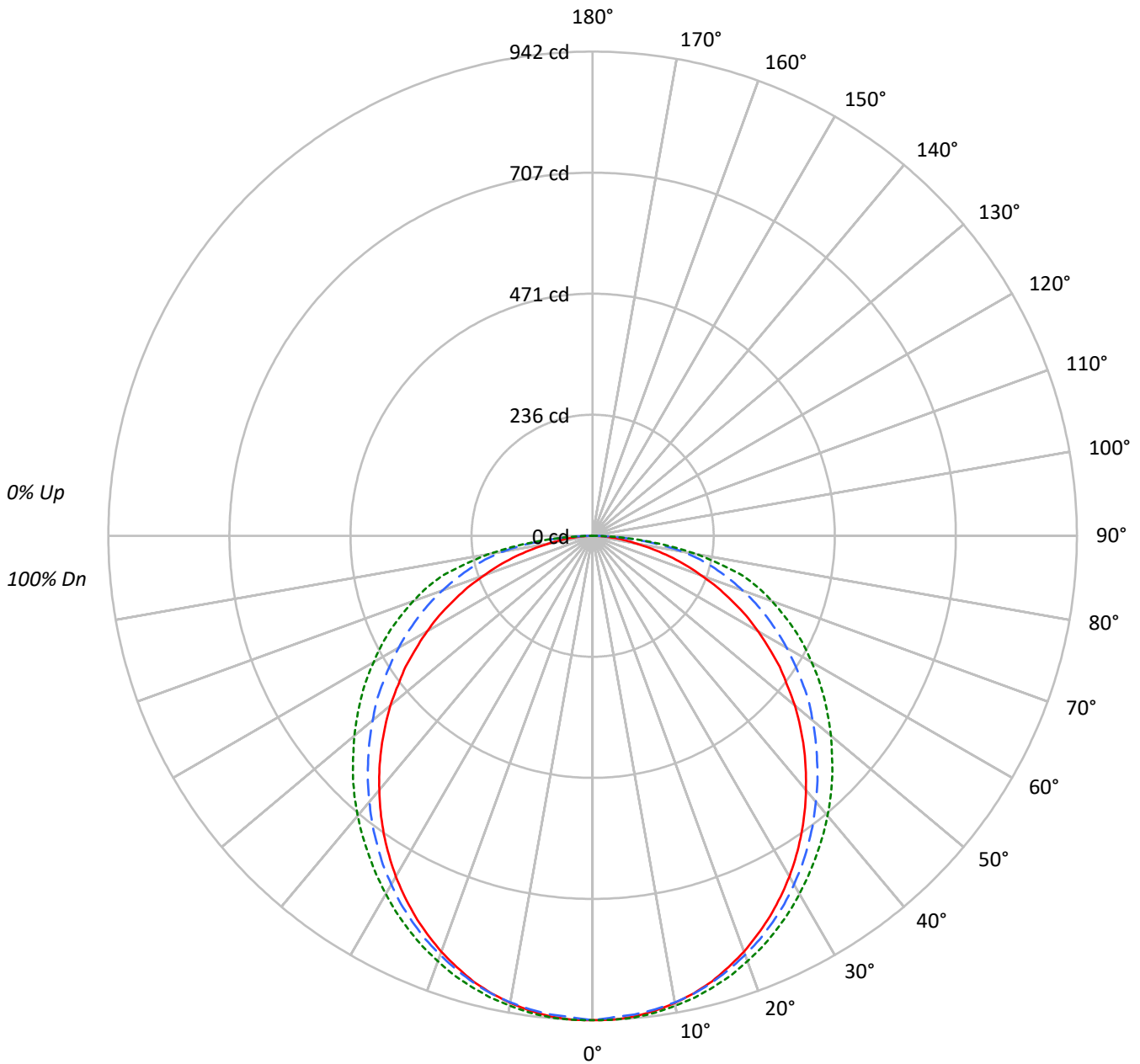
Lumens per Lamp: N/A
Luminaire Lumens: 2807.0 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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					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	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°	1330	1330	1330
5°	1330	1325	1333
10°	1322	1321	1331
15°	1311	1314	1328
20°	1293	1303	1323
25°	1272	1291	1317
30°	1247	1276	1311
35°	1220	1261	1307
40°	1189	1244	1310
45°	1159	1232	1316
50°	1127	1226	1329
55°	1093	1224	1353
60°	1050	1230	1388
65°	995	1248	1448
70°	924	1280	1531
75°	843	1344	1660
80°	692	1447	1660
85°	530	1334	1427



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	3.2
10°-20°	254.5	9.1
20°-30°	382.9	13.6
30°-40°	458.9	16.3
40°-50°	478.2	17.0
50°-60°	444.9	15.9
60°-70°	366.4	13.1
70°-80°	249.6	8.9
80°-90°	82.4	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°	726.5	25.9
0°-40°	1185.4	42.2
0°-60°	2108.6	75.1
0°-90°	2807.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2807.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	942	942	942	942	942	
5°	939	939	935	940	941	89
15°	897	898	899	908	909	253
25°	817	821	829	843	846	376
35°	708	717	732	751	759	443
45°	581	593	617	648	660	448
55°	444	459	498	537	550	396
65°	298	323	374	418	434	296
75°	155	189	246	290	304	163
85°	33	64	82	88	88	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	942.5	942.5	942.5	942.5	942.5
2.5°	942.5	942.5	937.7	942.5	942.5
5°	938.6	938.6	934.9	939.7	940.6
7.5°	932.1	933.1	929.4	934.9	935.9
10°	922.7	923.7	921.8	927.5	928.4
12.5°	911.5	912.4	912.4	919.0	920.0
15°	897.4	898.4	899.4	907.8	908.7
17.5°	879.7	882.5	884.3	894.7	896.5
20°	861.0	863.8	867.5	878.7	880.6
22.5°	839.4	843.1	849.7	861.9	864.7
25°	816.9	820.7	829.1	843.1	845.9
27.5°	791.6	797.3	807.6	822.6	826.3
30°	765.4	771.0	783.2	799.1	804.7
32.5°	737.3	744.8	758.8	776.6	782.3
35°	708.2	716.7	731.7	751.3	758.8
37.5°	677.4	686.7	704.5	726.0	735.4
40°	645.5	656.7	675.4	700.7	711.0
42.5°	613.6	624.0	647.3	674.5	685.7
45°	580.8	593.0	617.4	648.2	659.5
47.5°	547.1	559.3	588.3	621.1	631.4
50°	513.4	525.6	558.4	593.0	605.2
52.5°	476.8	492.8	530.2	564.9	577.1
55°	444.1	459.0	497.5	536.8	549.9
57.5°	406.6	424.3	466.6	507.8	521.8
60°	371.9	390.7	435.6	477.7	491.8
62.5°	336.4	356.9	404.7	447.8	463.7
65°	297.9	323.2	373.7	417.8	433.7
67.5°	263.2	289.5	342.9	387.9	401.9
70°	223.9	255.7	310.1	355.1	371.0
72.5°	190.1	222.0	279.1	323.2	339.1
75°	154.6	189.2	246.4	290.4	304.4
77.5°	119.0	157.4	214.5	248.3	252.9
80°	85.2	125.6	178.0	197.7	204.3
82.5°	60.0	96.5	131.2	144.3	148.0
85°	32.7	63.7	82.4	88.1	88.1
87.5°	14.0	27.2	32.7	33.8	34.7
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)