

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: P733987

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733987
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: 24FCZ2-30-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

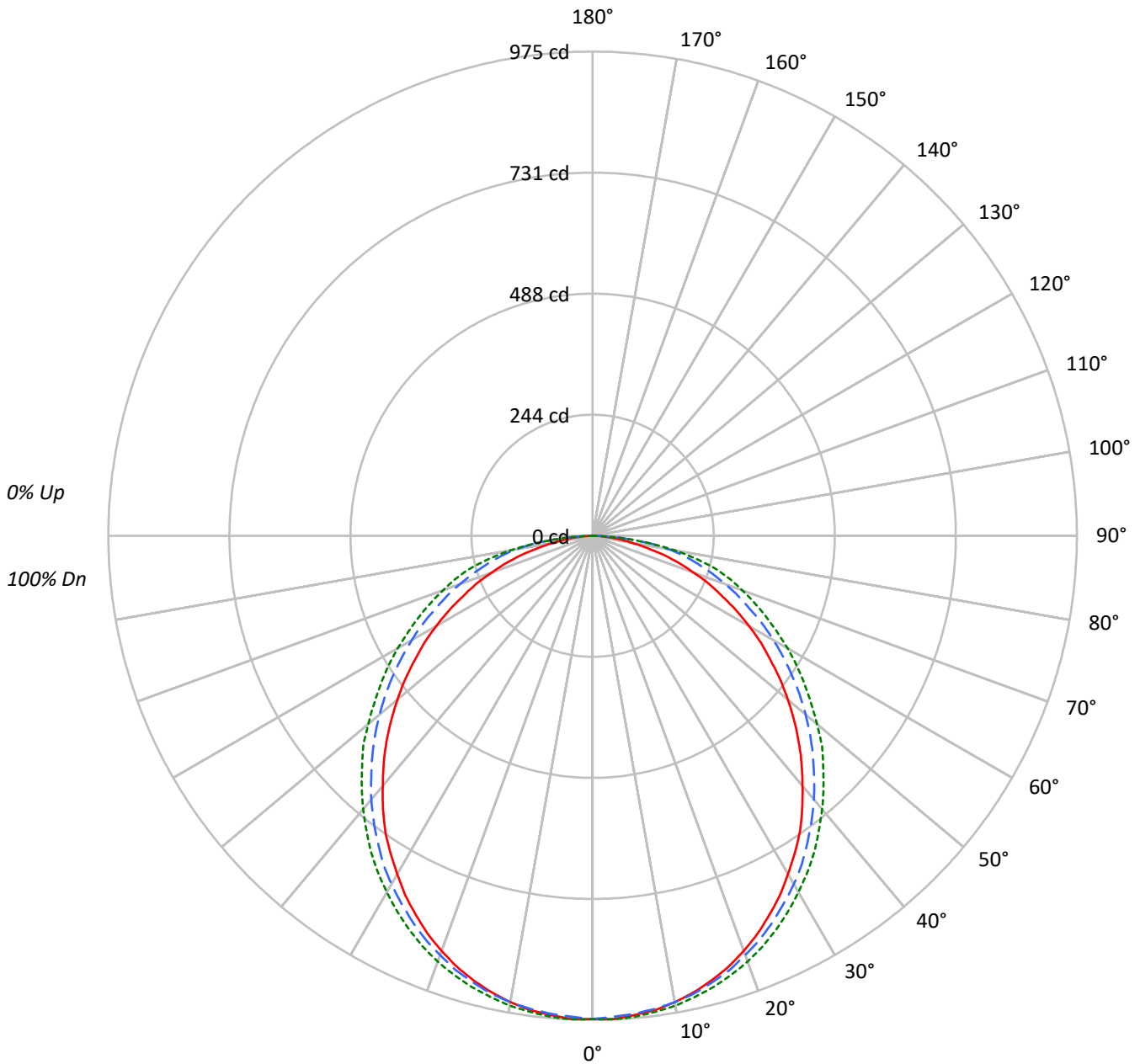
Lumens per Lamp: N/A
Luminaire Lumens: 2770.0 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
Input Voltage (V): NR
Input Current (Ain): 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	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°	1374	1374	1374
5°	1372	1369	1377
10°	1367	1367	1377
15°	1354	1360	1374
20°	1336	1349	1370
25°	1311	1336	1362
30°	1282	1321	1351
35°	1254	1299	1340
40°	1211	1277	1324
45°	1171	1252	1310
50°	1126	1229	1294
55°	1076	1206	1282
60°	1026	1187	1279
65°	961	1166	1287
70°	889	1173	1322
75°	797	1195	1396
80°	644	1265	1365
85°	484	1111	1083



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	3.3
10°-20°	263.2	9.5
20°-30°	395.7	14.3
30°-40°	471.3	17.0
40°-50°	482.4	17.4
50°-60°	434.3	15.7
60°-70°	341.1	12.3
70°-80°	221.4	8.0
80°-90°	68.4	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°	751.1	27.1
0°-40°	1222.4	44.1
0°-60°	2139.1	77.2
0°-90°	2770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2770.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	973	973	973	973	973	
5°	969	970	966	971	972	92
15°	926	929	931	939	941	261
25°	842	849	858	872	875	388
35°	728	736	754	772	778	454
45°	587	601	627	651	656	452
55°	437	457	490	516	521	392
65°	288	310	349	378	385	286
75°	146	174	219	249	256	155
85°	30	55	69	67	67	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	973.2	973.2	973.2	973.2	973.2
2.5°	974.0	974.0	969.6	974.0	974.9
5°	968.7	970.5	966.1	971.4	972.2
7.5°	963.4	963.4	960.8	966.1	967.0
10°	953.8	954.6	953.8	959.9	960.8
12.5°	941.5	943.2	944.1	950.3	951.1
15°	926.5	929.2	930.9	938.8	940.6
17.5°	909.8	912.4	916.8	925.6	927.4
20°	889.5	893.0	898.3	909.8	912.4
22.5°	867.6	871.1	879.9	890.4	894.8
25°	842.0	849.0	857.8	871.9	874.6
27.5°	816.5	822.6	834.1	849.0	852.6
30°	786.6	796.2	810.3	825.3	828.8
32.5°	757.5	767.2	783.9	799.8	804.2
35°	727.6	736.4	754.0	772.5	777.8
37.5°	693.3	704.7	724.1	742.6	747.9
40°	657.3	671.4	693.3	712.7	718.8
42.5°	622.9	637.9	659.9	681.0	688.0
45°	586.9	601.0	627.4	651.1	656.4
47.5°	549.9	565.8	593.9	617.6	626.4
50°	513.0	529.7	559.6	584.2	589.5
52.5°	476.0	493.6	525.3	551.7	554.3
55°	437.3	456.7	490.1	515.6	520.9
57.5°	402.1	418.8	454.9	481.3	487.4
60°	363.4	381.8	420.5	445.2	453.1
62.5°	326.4	345.8	386.3	410.9	417.9
65°	287.7	309.8	349.3	378.3	385.3
67.5°	254.3	275.4	317.6	345.8	352.8
70°	215.5	239.4	284.2	313.3	320.3
72.5°	182.1	206.7	251.7	279.8	290.4
75°	146.1	174.2	219.1	249.0	256.0
77.5°	110.9	143.4	189.1	212.0	212.0
80°	79.2	113.5	155.7	166.3	168.0
82.5°	51.9	85.3	115.2	114.4	114.4
85°	29.9	55.4	68.6	66.9	66.9
87.5°	11.4	22.9	24.6	24.6	23.7
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)