

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: P733990

Luminaire Tested: **24FCZ2-30-S-B2750-W2D-CA08-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733990
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-CA08-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND SMOOTH LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

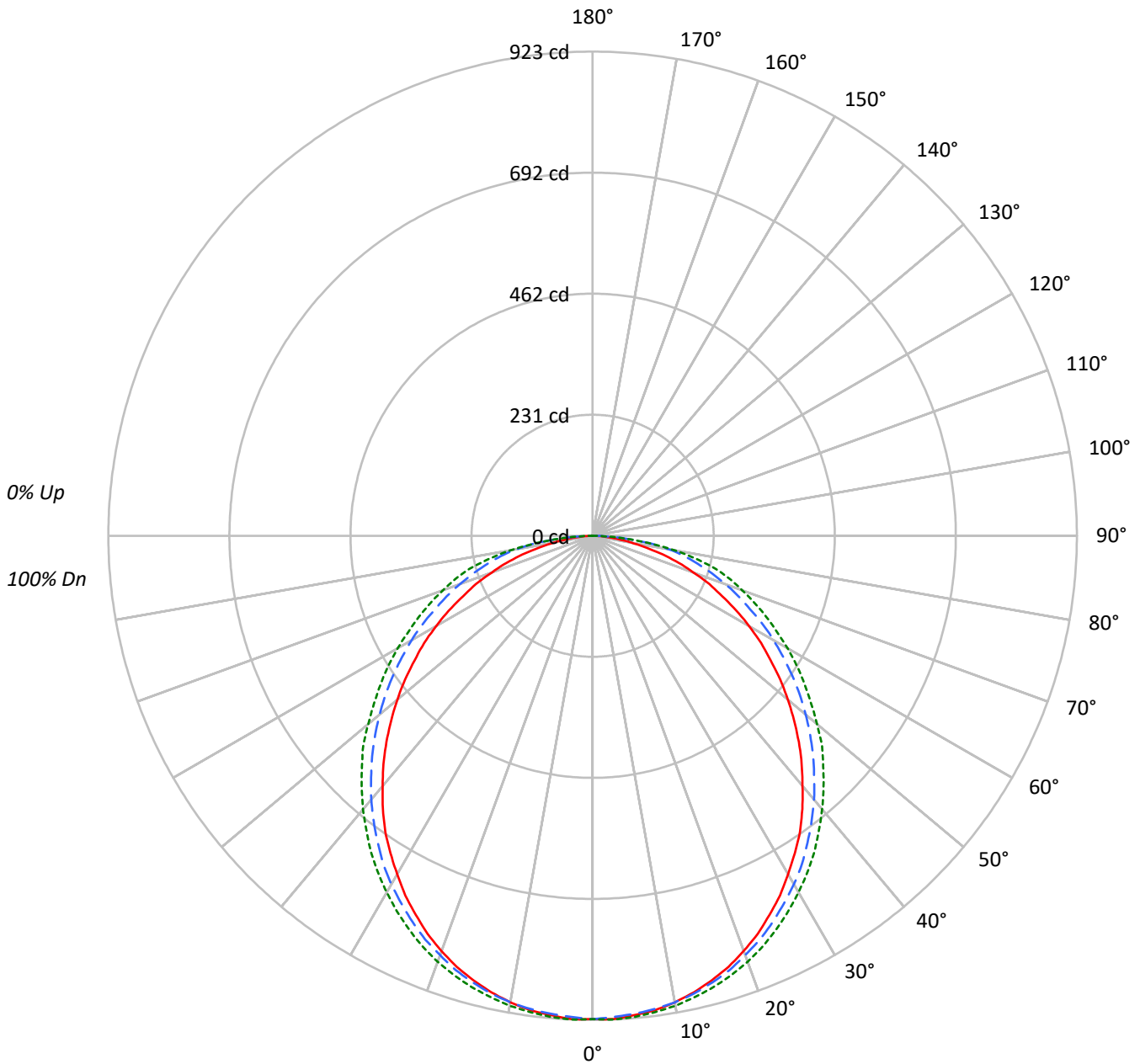
Lumens per Lamp: N/A
Luminaire Lumens: 2623.0 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
Input Voltage (V): NR
Input Current (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	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°	1301	1301	1301
5°	1300	1296	1304
10°	1294	1294	1304
15°	1282	1288	1301
20°	1265	1278	1298
25°	1242	1265	1290
30°	1214	1250	1279
35°	1187	1230	1269
40°	1147	1210	1254
45°	1109	1186	1241
50°	1067	1163	1226
55°	1019	1142	1214
60°	971	1124	1211
65°	910	1105	1219
70°	842	1110	1252
75°	754	1131	1322
80°	610	1199	1293
85°	458	1051	1025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	3.3
10°-20°	249.3	9.5
20°-30°	374.7	14.3
30°-40°	446.3	17.0
40°-50°	456.8	17.4
50°-60°	411.3	15.7
60°-70°	323.0	12.3
70°-80°	209.6	8.0
80°-90°	64.8	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°	711.2	27.1
0°-40°	1157.5	44.1
0°-60°	2025.6	77.2
0°-90°	2623.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2623.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	922	922	922	922	922	
5°	917	919	915	920	921	87
15°	877	880	882	889	891	247
25°	797	804	812	826	828	367
35°	689	697	714	732	736	430
45°	556	569	594	617	622	428
55°	414	432	464	488	493	371
65°	272	293	331	358	365	271
75°	138	165	208	236	242	146
85°	28	52	65	63	63	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	921.5	921.5	921.5	921.5	921.5
2.5°	922.3	922.3	918.1	922.3	923.1
5°	917.3	919.0	914.8	919.8	920.6
7.5°	912.3	912.3	909.8	914.8	915.7
10°	903.1	904.0	903.1	909.0	909.8
12.5°	891.5	893.1	894.0	899.8	900.6
15°	877.4	879.9	881.5	889.0	890.7
17.5°	861.5	864.0	868.1	876.4	878.2
20°	842.3	845.6	850.6	861.5	864.0
22.5°	821.5	824.9	833.2	843.1	847.3
25°	797.3	804.0	812.3	825.7	828.2
27.5°	773.2	779.0	789.8	804.0	807.4
30°	744.8	754.0	767.3	781.5	784.8
32.5°	717.3	726.5	742.3	757.4	761.5
35°	689.0	697.4	714.0	731.5	736.5
37.5°	656.5	667.3	685.7	703.2	708.2
40°	622.4	635.7	656.5	674.9	680.7
42.5°	589.9	604.0	624.9	644.9	651.5
45°	555.7	569.1	594.1	616.6	621.6
47.5°	520.7	535.7	562.3	584.8	593.2
50°	485.8	501.6	529.9	553.2	558.2
52.5°	450.7	467.4	497.4	522.4	524.9
55°	414.1	432.5	464.1	488.3	493.3
57.5°	380.8	396.6	430.7	455.7	461.6
60°	344.1	361.6	398.2	421.6	429.0
62.5°	309.1	327.5	365.8	389.1	395.7
65°	272.4	293.3	330.8	358.3	364.9
67.5°	240.8	260.8	300.7	327.5	334.1
70°	204.1	226.7	269.1	296.6	303.3
72.5°	172.5	195.7	238.3	264.9	275.0
75°	138.3	164.9	207.5	235.8	242.4
77.5°	105.0	135.8	179.1	200.8	200.8
80°	75.0	107.5	147.5	157.5	159.1
82.5°	49.2	80.8	109.1	108.3	108.3
85°	28.3	52.5	64.9	63.3	63.3
87.5°	10.8	21.7	23.3	23.3	22.5
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)