

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: P734019

Luminaire Tested: **24FCZ2-30-SQR-B2750-W2D-CA125-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30-SQR-B2750-W2D-CA125-4000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND SQR LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

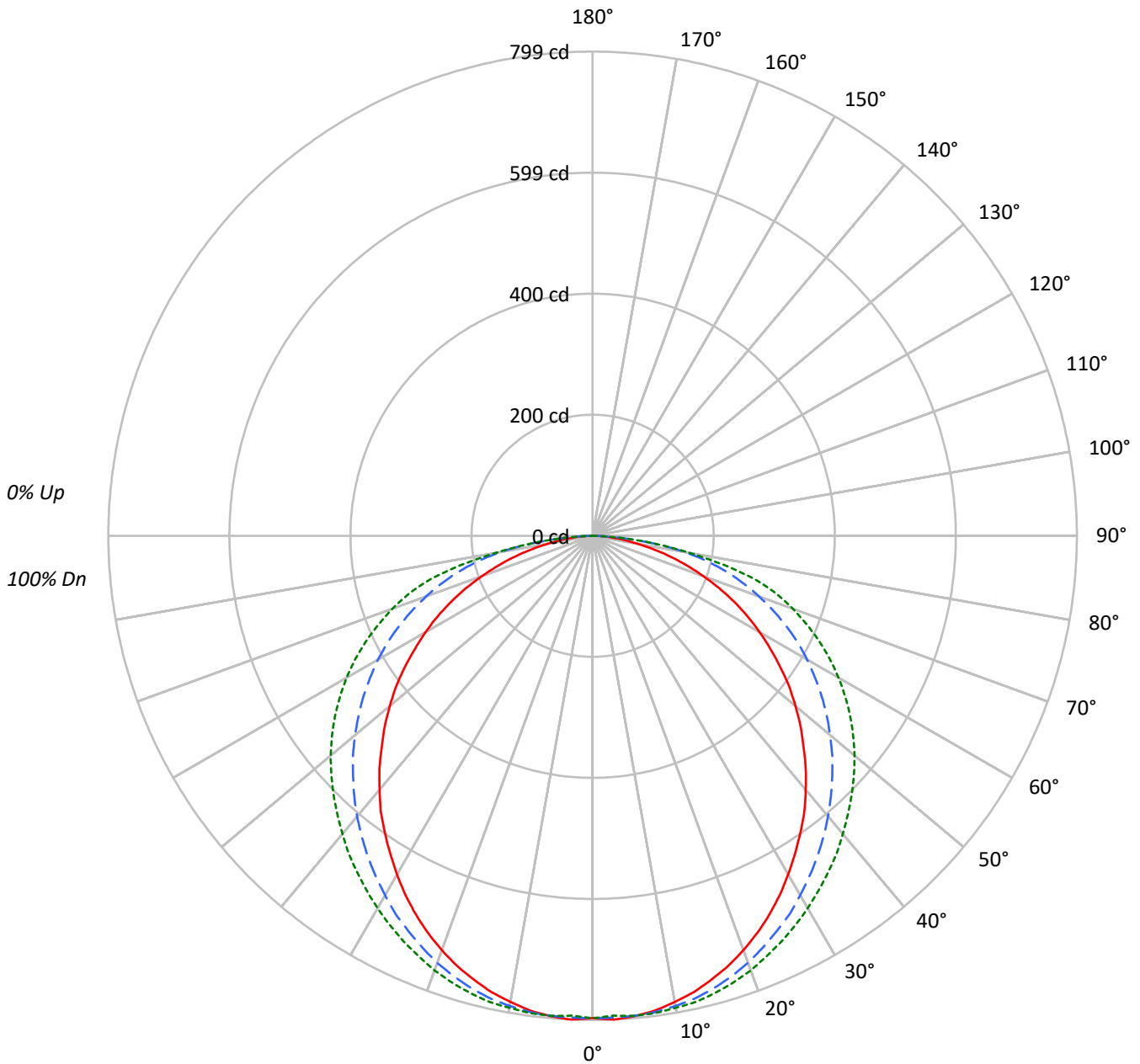
Lumens per Lamp: N/A
Luminaire Lumens: 2490.0 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82																			
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67																			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47																			
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41																			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35																			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1123	1123	1123
5°	1128	1126	1126
10°	1119	1129	1134
15°	1108	1129	1141
20°	1093	1126	1146
25°	1074	1120	1150
30°	1052	1116	1156
35°	1030	1114	1167
40°	1007	1114	1183
45°	981	1116	1206
50°	959	1123	1239
55°	931	1135	1277
60°	898	1153	1323
65°	859	1175	1379
70°	797	1205	1449
75°	722	1247	1515
80°	608	1250	1303
85°	465	944	944



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	3.0
10°-20°	217.4	8.7
20°-30°	330.2	13.3
30°-40°	401.6	16.1
40°-50°	427.6	17.2
50°-60°	407.2	16.4
60°-70°	340.5	13.7
70°-80°	227.1	9.1
80°-90°	62.8	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°	623.1	25.0
0°-40°	1024.7	41.2
0°-60°	1859.5	74.7
0°-90°	2490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2490.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	796	796	796	796	796	
5°	796	791	795	795	795	76
15°	758	760	773	779	781	214
25°	690	699	720	732	738	318
35°	598	615	646	668	678	374
45°	492	518	559	590	604	380
55°	378	411	461	502	519	338
65°	257	295	352	396	413	254
75°	132	174	229	267	278	140
85°	29	53	58	58	58	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	795.9	795.9	795.9	795.9	795.9
2.5°	799.2	793.4	795.9	795.9	792.7
5°	795.9	791.0	795.1	795.1	795.1
7.5°	790.2	786.1	792.7	794.3	794.3
10°	781.1	779.5	787.8	790.2	791.0
12.5°	771.3	770.4	782.0	785.2	787.8
15°	758.1	759.8	772.9	778.7	781.1
17.5°	744.2	747.4	762.2	770.4	772.9
20°	727.7	732.6	749.9	758.1	763.1
22.5°	709.6	717.0	735.1	744.9	750.7
25°	689.9	698.9	719.5	731.8	738.4
27.5°	668.5	680.0	703.9	717.8	724.4
30°	645.4	658.6	685.0	701.4	709.6
32.5°	621.6	637.2	666.0	684.1	693.9
35°	597.8	615.1	646.3	667.7	677.5
37.5°	573.9	591.1	625.8	648.7	661.1
40°	546.8	567.3	604.4	629.8	642.2
42.5°	520.5	542.6	582.2	610.1	623.3
45°	491.7	518.0	559.1	590.4	604.4
47.5°	465.4	491.7	536.1	569.0	584.6
50°	436.6	464.5	511.4	547.6	564.1
52.5°	408.6	437.5	486.7	525.4	541.9
55°	378.3	411.1	461.3	501.6	518.8
57.5°	347.8	383.2	434.9	476.9	494.2
60°	318.2	354.3	408.6	450.6	468.7
62.5°	288.6	324.7	381.5	424.2	441.5
65°	257.3	295.1	351.9	395.5	412.8
67.5°	226.1	265.5	322.3	365.9	382.3
70°	193.2	235.2	291.9	334.7	351.1
72.5°	162.9	204.7	260.6	302.6	318.2
75°	132.4	174.3	228.6	267.3	277.9
77.5°	102.8	144.7	193.2	218.7	221.2
80°	74.8	114.3	153.8	161.1	160.3
82.5°	50.1	85.5	106.1	106.9	109.3
85°	28.7	53.4	58.3	57.6	58.3
87.5°	11.5	18.9	16.5	12.3	12.3
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)