

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: P734118

Luminaire Tested: **24FCZ2-30HE-S-B2750-W2D-CA125-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734118
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-CA125-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SMOOTH LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

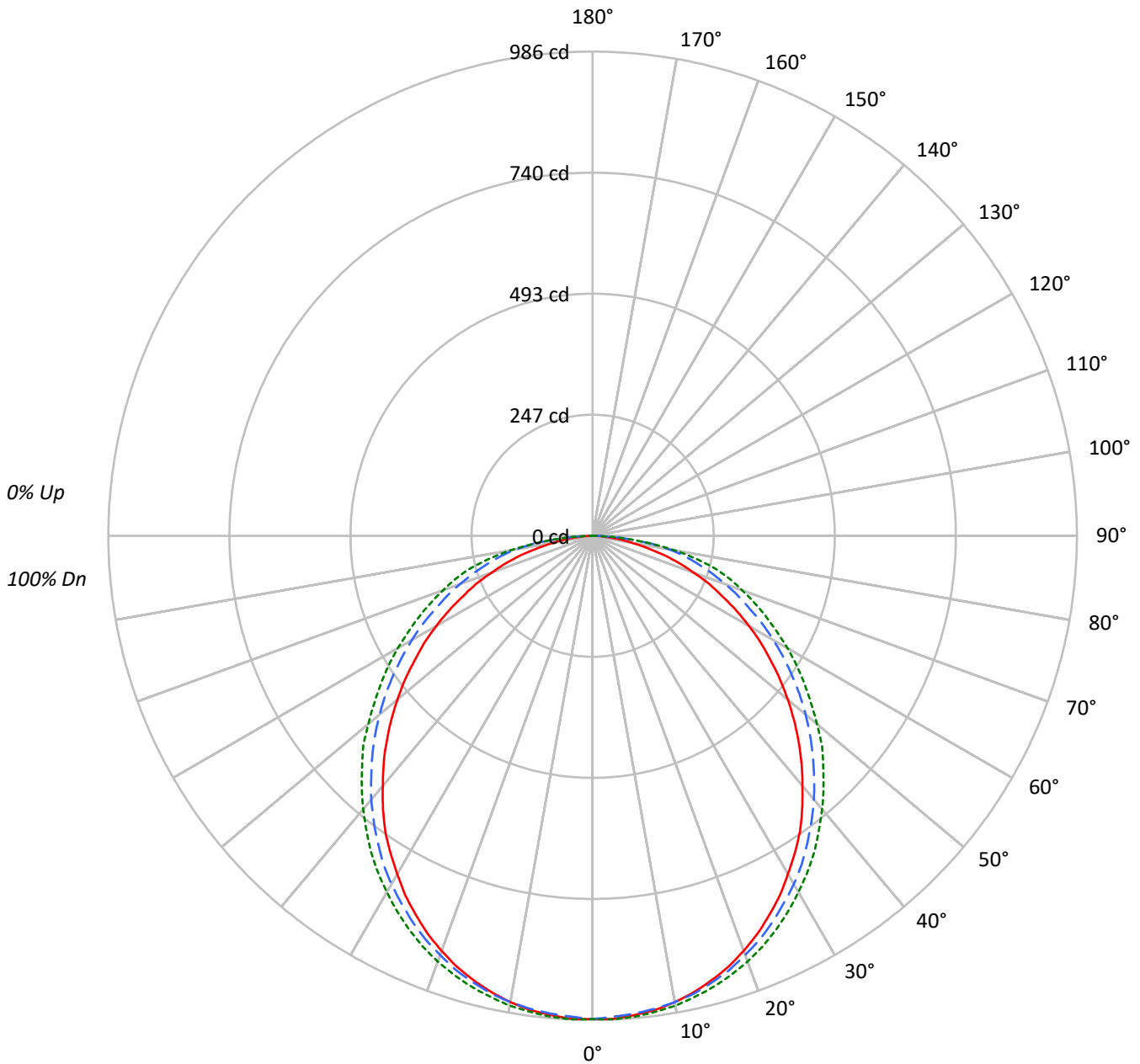
Lumens per Lamp: N/A
Luminaire Lumens: 2801.0 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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	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°	1389	1389	1389
5°	1388	1384	1393
10°	1382	1382	1392
15°	1369	1375	1390
20°	1351	1364	1386
25°	1326	1351	1377
30°	1296	1335	1366
35°	1268	1314	1355
40°	1224	1292	1339
45°	1184	1266	1325
50°	1139	1243	1309
55°	1088	1219	1296
60°	1037	1200	1293
65°	971	1180	1301
70°	899	1186	1336
75°	805	1208	1412
80°	651	1280	1381
85°	489	1124	1095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	3.3
10°-20°	266.2	9.5
20°-30°	400.1	14.3
30°-40°	476.6	17.0
40°-50°	487.8	17.4
50°-60°	439.2	15.7
60°-70°	344.9	12.3
70°-80°	223.8	8.0
80°-90°	69.2	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°	759.5	27.1
0°-40°	1236.1	44.1
0°-60°	2163.1	77.2
0°-90°	2801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2801.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	984	984	984	984	984	
5°	980	981	977	982	983	93
15°	937	940	941	949	951	264
25°	852	858	867	882	884	392
35°	736	745	762	781	786	459
45°	593	608	634	658	664	457
55°	442	462	496	521	527	396
65°	291	313	353	383	390	290
75°	148	176	222	252	259	156
85°	30	56	69	68	68	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	984.1	984.1	984.1	984.1	984.1
2.5°	984.9	984.9	980.4	984.9	985.8
5°	979.6	981.4	976.9	982.2	983.1
7.5°	974.2	974.2	971.5	976.9	977.8
10°	964.4	965.3	964.4	970.7	971.5
12.5°	952.0	953.7	954.7	960.9	961.8
15°	936.9	939.6	941.3	949.3	951.1
17.5°	920.0	922.6	927.0	935.9	937.7
20°	899.5	903.0	908.4	920.0	922.6
22.5°	877.3	880.8	889.7	900.3	904.8
25°	851.5	858.5	867.4	881.7	884.4
27.5°	825.6	831.8	843.4	858.5	862.2
30°	795.4	805.1	819.4	834.5	838.1
32.5°	766.0	775.8	792.7	808.8	813.2
35°	735.8	744.7	762.5	781.1	786.5
37.5°	701.1	712.6	732.3	750.9	756.3
40°	664.6	678.9	701.1	720.7	726.9
42.5°	629.9	645.0	667.3	688.6	695.7
45°	593.4	607.7	634.4	658.4	663.8
47.5°	556.0	572.1	600.5	624.5	633.4
50°	518.7	535.7	565.9	590.8	596.1
52.5°	481.3	499.1	531.2	557.8	560.5
55°	442.2	461.8	495.6	521.4	526.8
57.5°	406.6	423.5	460.0	486.7	492.9
60°	367.5	386.1	425.2	450.2	458.2
62.5°	330.1	349.7	390.6	415.5	422.6
65°	290.9	313.2	353.2	382.6	389.7
67.5°	257.2	278.5	321.2	349.7	356.7
70°	217.9	242.0	287.4	316.8	323.8
72.5°	184.2	209.0	254.5	282.9	293.6
75°	147.7	176.1	221.6	251.8	258.9
77.5°	112.1	145.0	191.2	214.4	214.4
80°	80.1	114.8	157.5	168.2	169.9
82.5°	52.5	86.3	116.5	115.7	115.7
85°	30.2	56.1	69.4	67.6	67.6
87.5°	11.6	23.2	24.9	24.9	24.0
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)