

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: P734116

Luminaire Tested: **24FCZ2-30HE-S-B2750-W2D-CA125-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734116
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-CA125-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SMOOTH LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

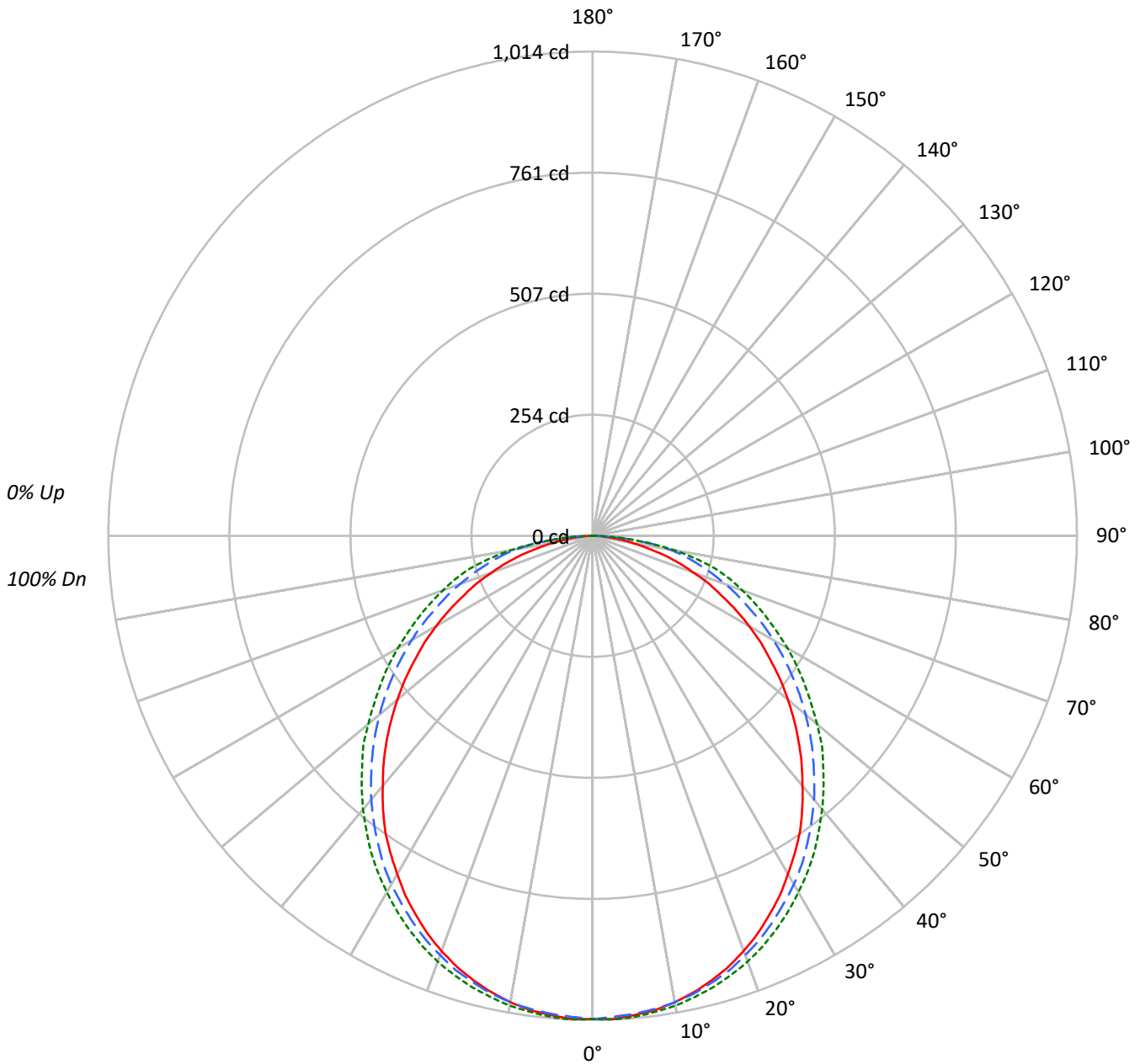
Lumens per Lamp: N/A
Luminaire Lumens: 2881.0 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	1429	1429	1429
5°	1427	1424	1433
10°	1422	1422	1432
15°	1408	1415	1429
20°	1390	1403	1425
25°	1364	1389	1416
30°	1333	1373	1405
35°	1304	1351	1394
40°	1259	1329	1378
45°	1218	1302	1363
50°	1171	1278	1346
55°	1119	1254	1333
60°	1067	1235	1330
65°	999	1213	1338
70°	925	1220	1375
75°	828	1243	1452
80°	670	1317	1421
85°	504	1155	1127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	3.3
10°-20°	273.8	9.5
20°-30°	411.6	14.3
30°-40°	490.2	17.0
40°-50°	501.7	17.4
50°-60°	451.7	15.7
60°-70°	354.7	12.3
70°-80°	230.2	8.0
80°-90°	71.2	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°	781.2	27.1
0°-40°	1271.4	44.1
0°-60°	2224.9	77.2
0°-90°	2881.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2881.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1012	1012	1012	1012	1012	
5°	1008	1009	1005	1010	1011	96
15°	964	966	968	976	978	272
25°	876	883	892	907	910	403
35°	757	766	784	803	809	472
45°	610	625	652	677	683	471
55°	455	475	510	536	542	408
65°	299	322	363	394	401	298
75°	152	181	228	259	266	161
85°	31	58	71	70	70	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1012.2	1012.2	1012.2	1012.2	1012.2
2.5°	1013.0	1013.0	1008.4	1013.0	1013.9
5°	1007.5	1009.4	1004.8	1010.3	1011.2
7.5°	1002.0	1002.0	999.3	1004.8	1005.8
10°	992.0	992.9	992.0	998.4	999.3
12.5°	979.2	981.0	982.0	988.3	989.2
15°	963.6	966.4	968.2	976.4	978.3
17.5°	946.2	949.0	953.5	962.7	964.5
20°	925.2	928.8	934.3	946.2	949.0
22.5°	902.3	906.0	915.1	926.1	930.7
25°	875.8	883.1	892.2	906.9	909.6
27.5°	849.2	855.6	867.5	883.1	886.8
30°	818.1	828.1	842.8	858.4	862.0
32.5°	787.9	797.9	815.4	831.9	836.4
35°	756.8	766.0	784.3	803.4	809.0
37.5°	721.1	733.0	753.2	772.4	777.9
40°	683.6	698.3	721.1	741.3	747.7
42.5°	647.9	663.4	686.4	708.3	715.6
45°	610.4	625.0	652.5	677.2	682.7
47.5°	571.9	588.4	617.7	642.4	651.5
50°	533.5	551.0	582.0	607.6	613.1
52.5°	495.1	513.4	546.3	573.8	576.5
55°	454.8	475.0	509.7	536.3	541.8
57.5°	418.2	435.6	473.1	500.6	507.0
60°	378.0	397.1	437.4	463.1	471.2
62.5°	339.5	359.7	401.8	427.4	434.6
65°	299.2	322.2	363.3	393.5	400.8
67.5°	264.5	286.4	330.3	359.7	366.9
70°	224.2	249.0	295.6	325.8	333.1
72.5°	189.4	215.0	261.8	291.0	302.0
75°	151.9	181.2	227.9	259.0	266.3
77.5°	115.3	149.2	196.7	220.5	220.5
80°	82.4	118.1	162.0	173.0	174.8
82.5°	54.0	88.8	119.8	119.0	119.0
85°	31.1	57.7	71.3	69.6	69.6
87.5°	11.9	23.8	25.6	25.6	24.7
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)