

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: P734120

Luminaire Tested: **24FCZ2-30HE-S-B2750-W2D-CA125-5000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P734120
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-CA125-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND SMOOTH LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

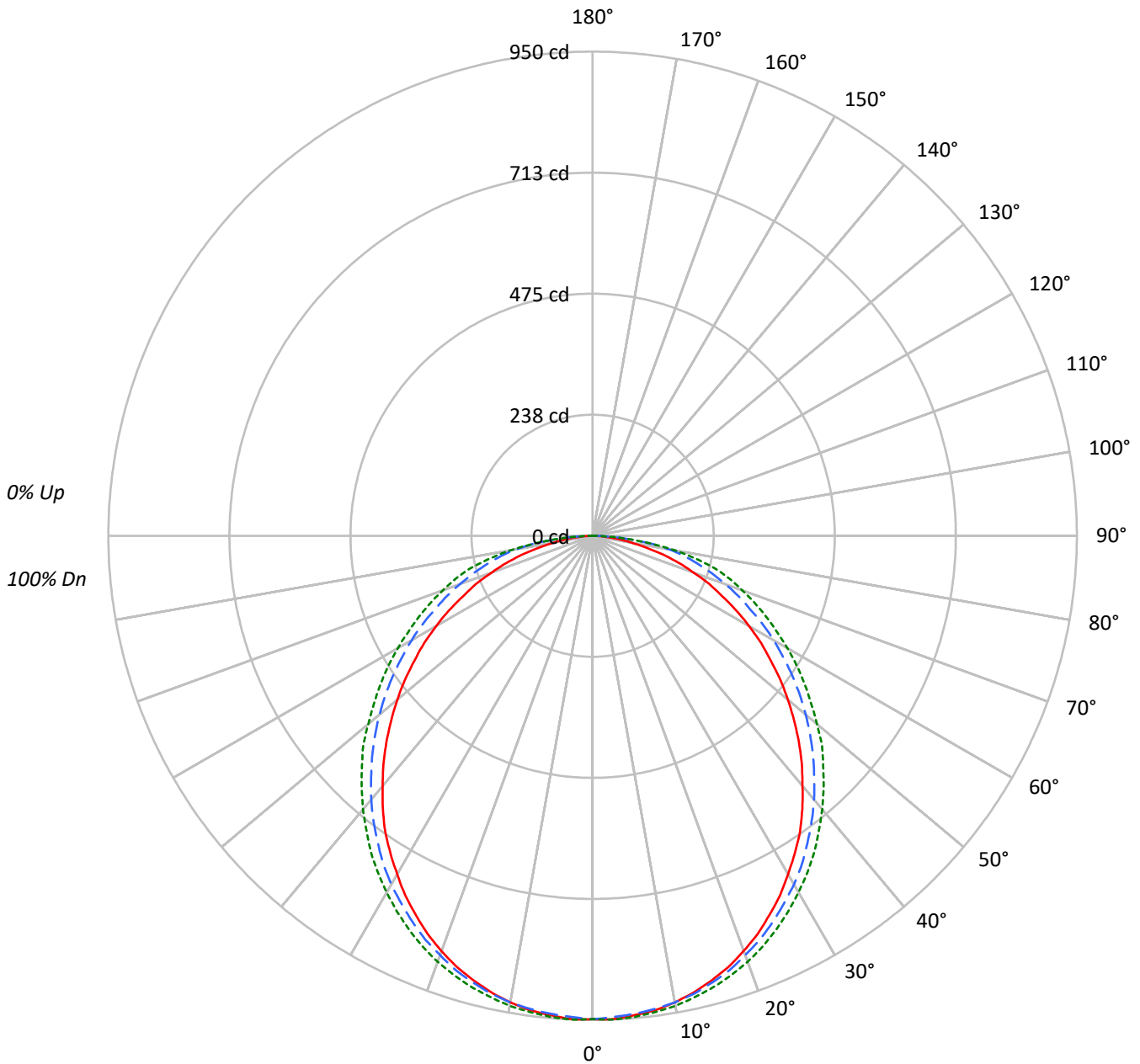
Lumens per Lamp: N/A
Luminaire Lumens: 2700.0 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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					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°	1339	1339	1339
5°	1338	1334	1342
10°	1332	1332	1342
15°	1320	1326	1340
20°	1302	1315	1336
25°	1278	1302	1328
30°	1249	1287	1316
35°	1222	1266	1306
40°	1180	1245	1291
45°	1142	1221	1277
50°	1098	1198	1262
55°	1049	1175	1249
60°	1000	1157	1246
65°	936	1137	1254
70°	867	1143	1288
75°	777	1165	1361
80°	627	1234	1331
85°	471	1083	1056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.8	3.3
10°-20°	256.6	9.5
20°-30°	385.7	14.3
30°-40°	459.4	17.0
40°-50°	470.2	17.4
50°-60°	423.3	15.7
60°-70°	332.5	12.3
70°-80°	215.8	8.0
80°-90°	66.7	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°	732.1	27.1
0°-40°	1191.5	44.1
0°-60°	2085.1	77.2
0°-90°	2700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2700.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	949	949	949	949	949	
5°	944	946	942	947	948	90
15°	903	906	907	915	917	255
25°	821	828	836	850	852	378
35°	709	718	735	753	758	442
45°	572	586	612	635	640	441
55°	426	445	478	503	508	382
65°	280	302	340	369	376	279
75°	142	170	214	243	250	151
85°	29	54	67	65	65	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	948.6	948.6	948.6	948.6	948.6
2.5°	949.4	949.4	945.1	949.4	950.2
5°	944.2	946.0	941.6	946.8	947.6
7.5°	939.1	939.1	936.5	941.6	942.6
10°	929.7	930.5	929.7	935.7	936.5
12.5°	917.7	919.3	920.3	926.3	927.1
15°	903.1	905.7	907.3	915.1	916.8
17.5°	886.8	889.4	893.6	902.2	903.9
20°	867.0	870.5	875.6	886.8	889.4
22.5°	845.7	849.1	857.6	867.9	872.2
25°	820.8	827.6	836.1	849.9	852.5
27.5°	795.8	801.8	813.0	827.6	831.1
30°	766.7	776.1	789.9	804.4	807.8
32.5°	738.4	747.8	764.1	779.6	783.9
35°	709.3	717.8	735.0	753.0	758.1
37.5°	675.8	686.9	705.8	723.8	729.0
40°	640.6	654.4	675.8	694.7	700.7
42.5°	607.2	621.7	643.2	663.8	670.6
45°	572.0	585.8	611.5	634.7	639.8
47.5°	536.0	551.5	578.9	602.0	610.6
50°	500.0	516.3	545.5	569.5	574.6
52.5°	464.0	481.1	512.0	537.7	540.3
55°	426.2	445.1	477.7	502.6	507.8
57.5°	391.9	408.3	443.4	469.1	475.1
60°	354.2	372.2	409.9	434.0	441.6
62.5°	318.2	337.1	376.5	400.5	407.3
65°	280.4	301.9	340.5	368.8	375.6
67.5°	247.9	268.5	309.6	337.1	343.9
70°	210.1	233.3	277.0	305.3	312.2
72.5°	177.5	201.5	245.3	272.7	283.0
75°	142.4	169.8	213.6	242.7	249.5
77.5°	108.1	139.8	184.3	206.7	206.7
80°	77.2	110.7	151.8	162.1	163.8
82.5°	50.6	83.2	112.3	111.5	111.5
85°	29.1	54.0	66.9	65.2	65.2
87.5°	11.2	22.3	24.0	24.0	23.1
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)