

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: P734042

Luminaire Tested: **24FCZ2-30HE-B2750-W2D-CA125-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272053)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30HE-B2750-W2D-CA125-3000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RIBBED LENS, WITH, CA125 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

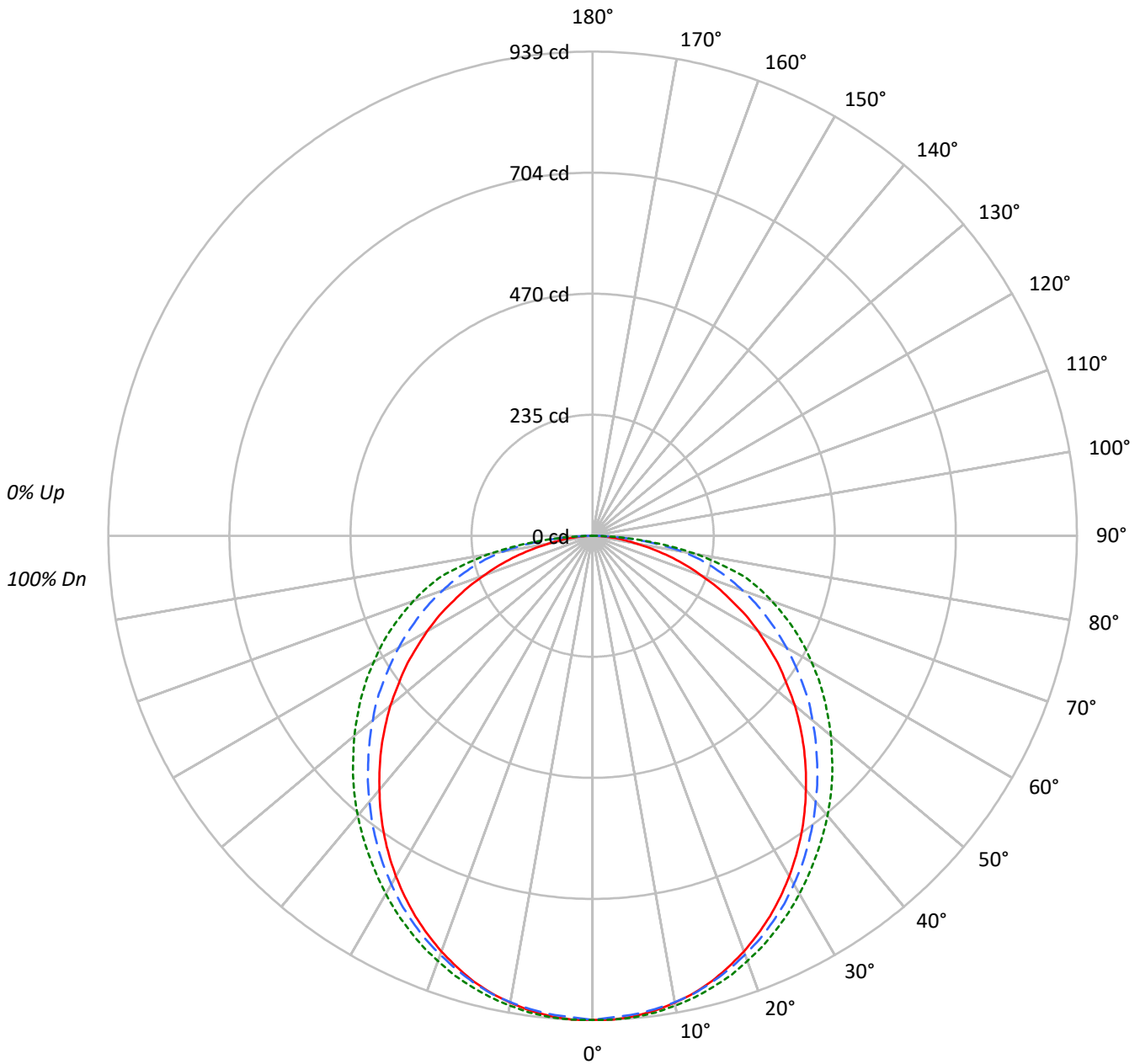
Lumens per Lamp: N/A
Luminaire Lumens: 2797.0 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56																			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36																			
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25																			
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1325	1325	1325
5°	1325	1320	1328
10°	1318	1316	1326
15°	1307	1309	1323
20°	1288	1298	1318
25°	1268	1287	1313
30°	1243	1272	1307
35°	1216	1256	1303
40°	1185	1240	1305
45°	1155	1228	1312
50°	1123	1222	1324
55°	1089	1220	1348
60°	1046	1225	1383
65°	991	1244	1443
70°	921	1275	1526
75°	840	1339	1654
80°	690	1441	1654
85°	528	1329	1422



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	3.2
10°-20°	253.6	9.1
20°-30°	381.6	13.6
30°-40°	457.3	16.3
40°-50°	476.5	17.0
50°-60°	443.4	15.9
60°-70°	365.1	13.1
70°-80°	248.7	8.9
80°-90°	82.1	2.9
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°	723.9	25.9
0°-40°	1181.2	42.2
0°-60°	2101.1	75.1
0°-90°	2797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2797.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	939	939	939	939	939	
5°	935	935	932	936	937	89
15°	894	895	896	905	906	252
25°	814	818	826	840	843	375
35°	706	714	729	749	756	441
45°	579	591	615	646	657	446
55°	442	457	496	535	548	394
65°	297	322	372	416	432	295
75°	154	189	246	289	303	162
85°	33	64	82	88	88	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	939.1	939.1	939.1	939.1	939.1
2.5°	939.1	939.1	934.4	939.1	939.1
5°	935.3	935.3	931.6	936.3	937.2
7.5°	928.8	929.8	926.1	931.6	932.6
10°	919.4	920.4	918.5	924.2	925.1
12.5°	908.3	909.2	909.2	915.7	916.7
15°	894.2	895.2	896.1	904.6	905.5
17.5°	876.6	879.4	881.2	891.5	893.3
20°	857.9	860.7	864.4	875.6	877.5
22.5°	836.4	840.1	846.6	858.8	861.6
25°	814.0	817.7	826.2	840.1	842.9
27.5°	788.8	794.4	804.7	819.6	823.4
30°	762.7	768.2	780.4	796.2	801.9
32.5°	734.7	742.1	756.1	773.8	779.5
35°	705.7	714.1	729.1	748.6	756.1
37.5°	675.0	684.3	702.0	723.4	732.8
40°	643.2	654.4	673.0	698.2	708.5
42.5°	611.4	621.7	645.0	672.1	683.3
45°	578.8	590.9	615.2	645.9	657.2
47.5°	545.1	557.3	586.2	618.9	629.2
50°	511.6	523.7	556.4	590.9	603.1
52.5°	475.1	491.0	528.4	562.9	575.0
55°	442.5	457.4	495.7	534.9	547.9
57.5°	405.2	422.8	464.9	506.0	519.9
60°	370.6	389.3	434.1	476.0	490.1
62.5°	335.2	355.6	403.2	446.2	462.1
65°	296.8	322.0	372.4	416.3	432.2
67.5°	262.3	288.5	341.7	386.5	400.4
70°	223.1	254.8	309.0	353.8	369.7
72.5°	189.5	221.2	278.1	322.0	337.9
75°	154.0	188.6	245.5	289.4	303.3
77.5°	118.6	156.8	213.8	247.4	252.0
80°	84.9	125.1	177.3	197.0	203.5
82.5°	59.7	96.2	130.7	143.8	147.5
85°	32.6	63.5	82.1	87.8	87.8
87.5°	14.0	27.1	32.6	33.6	34.5
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)