

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: P734041

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734041  
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-CA125-2700K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND RIBBED LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

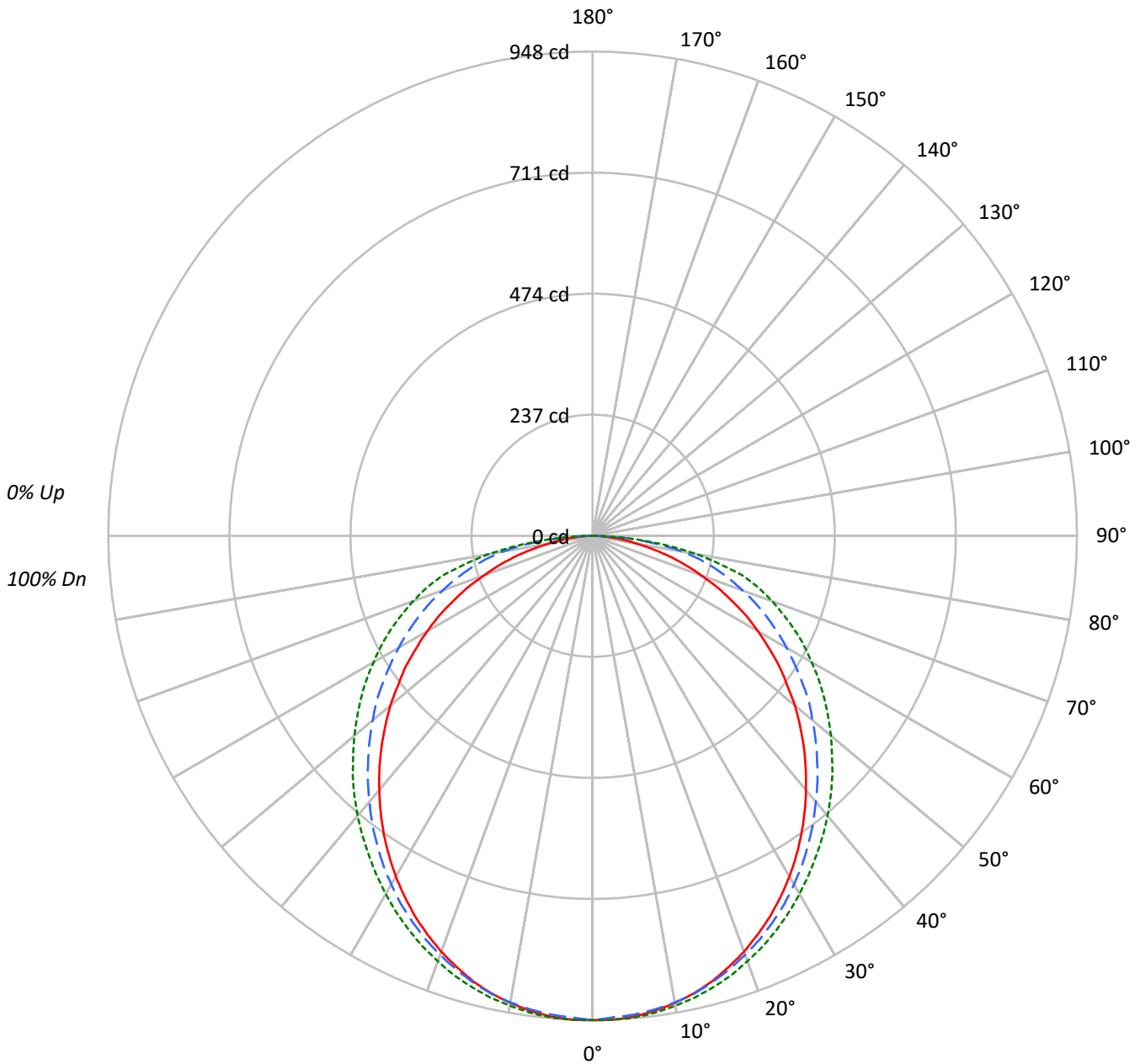
Lumens per Lamp: N/A  
Luminaire Lumens: 2825.0 lumens  
Efficiency: N/A  
Efficacy: 128.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 22  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

TEST NUMBER: P734041

CATALOG NUMBER: 24FCZ2-30HE-B2750-W2D-CA125-2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P734041

CATALOG NUMBER: 24FCZ2-30HE-B2750-W2D-CA125-2700K

**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°	1339	1339	1339
5°	1338	1333	1341
10°	1331	1329	1339
15°	1320	1322	1336
20°	1301	1311	1331
25°	1280	1299	1326
30°	1255	1285	1320
35°	1228	1269	1316
40°	1197	1252	1318
45°	1167	1240	1325
50°	1134	1234	1337
55°	1100	1232	1362
60°	1057	1237	1397
65°	1001	1256	1458
70°	930	1287	1541
75°	848	1352	1671
80°	697	1456	1671
85°	534	1344	1435



TEST NUMBER: P734041

CATALOG NUMBER: 24FCZ2-30HE-B2750-W2D-CA125-2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.7	3.2
10°-20°	256.1	9.1
20°-30°	385.4	13.6
30°-40°	461.8	16.3
40°-50°	481.3	17.0
50°-60°	447.8	15.9
60°-70°	368.8	13.1
70°-80°	251.2	8.9
80°-90°	82.9	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°	731.2	25.9
0°-40°	1193.0	42.2
0°-60°	2122.1	75.1
0°-90°	2825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2825.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	945	945	941	946	947	90
15°	903	904	905	914	915	254
25°	822	826	834	848	851	378
35°	713	721	736	756	764	446
45°	584	597	621	652	664	451
55°	447	462	501	540	553	398
65°	300	325	376	420	436	298
75°	156	190	248	292	306	164
85°	33	64	83	89	89	41
90°	0	0	0	0	0	



TEST NUMBER: P734041

CATALOG NUMBER: 24FCZ2-30HE-B2750-W2D-CA125-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	948.5	948.5	948.5	948.5	948.5
2.5°	948.5	948.5	943.8	948.5	948.5
5°	944.7	944.7	940.9	945.7	946.6
7.5°	938.1	939.1	935.3	940.9	941.9
10°	928.6	929.7	927.7	933.4	934.3
12.5°	917.4	918.3	918.3	924.9	925.9
15°	903.2	904.2	905.1	913.6	914.6
17.5°	885.3	888.2	890.0	900.5	902.3
20°	866.5	869.3	873.1	884.3	886.3
22.5°	844.8	848.5	855.1	867.4	870.2
25°	822.2	825.9	834.4	848.5	851.4
27.5°	796.7	802.4	812.7	827.8	831.6
30°	770.3	775.9	788.2	804.2	809.9
32.5°	742.0	749.5	763.6	781.6	787.3
35°	712.7	721.3	736.4	756.1	763.6
37.5°	681.7	691.1	709.0	730.7	740.1
40°	649.7	660.9	679.8	705.2	715.6
42.5°	617.5	628.0	651.5	678.9	690.1
45°	584.5	596.8	621.4	652.4	663.8
47.5°	550.6	562.8	592.0	625.1	635.5
50°	516.7	529.0	561.9	596.8	609.1
52.5°	479.9	495.9	533.6	568.5	580.8
55°	446.9	461.9	500.7	540.2	553.4
57.5°	409.2	427.0	469.5	511.0	525.1
60°	374.3	393.2	438.4	480.8	495.0
62.5°	338.5	359.2	407.3	450.7	466.7
65°	299.8	325.2	376.1	420.5	436.5
67.5°	264.9	291.4	345.1	390.3	404.4
70°	225.3	257.4	312.0	357.4	373.4
72.5°	191.4	223.4	280.9	325.2	341.3
75°	155.6	190.5	248.0	292.3	306.4
77.5°	119.8	158.4	215.9	249.9	254.5
80°	85.8	126.4	179.1	199.0	205.6
82.5°	60.3	97.2	132.0	145.2	149.0
85°	33.0	64.1	83.0	88.6	88.6
87.5°	14.1	27.4	33.0	34.0	34.9
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)