

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: P734142

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734142  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24FCZ2-30HE-SQR-B2750-W2D-CA125-3000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND SQR LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

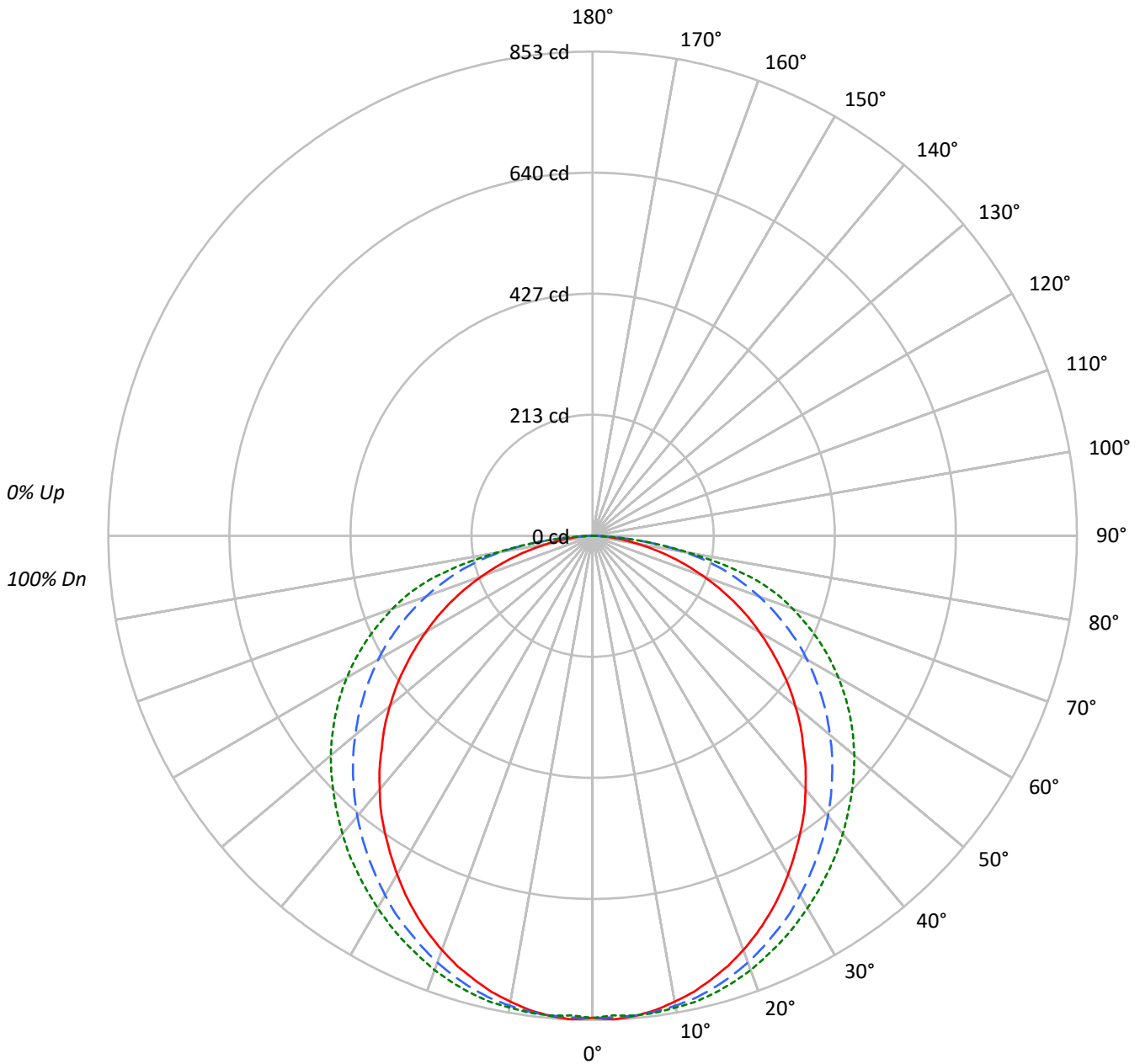
Lumens per Lamp: N/A  
Luminaire Lumens: 2657.0 lumens  
Efficiency: N/A  
Efficacy: 120.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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

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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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82			
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56			
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47			
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1199	1199	1199
5°	1203	1202	1202
10°	1194	1205	1210
15°	1182	1205	1218
20°	1166	1202	1223
25°	1146	1195	1227
30°	1122	1191	1234
35°	1099	1188	1246
40°	1075	1188	1263
45°	1047	1191	1287
50°	1023	1198	1322
55°	993	1211	1362
60°	959	1231	1412
65°	917	1254	1471
70°	851	1285	1546
75°	771	1330	1617
80°	649	1334	1390
85°	497	1009	1009



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.6	3.0
10°-20°	231.9	8.7
20°-30°	352.3	13.3
30°-40°	428.5	16.1
40°-50°	456.3	17.2
50°-60°	434.6	16.4
60°-70°	363.4	13.7
70°-80°	242.3	9.1
80°-90°	67.0	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°	664.9	25.0
0°-40°	1093.4	41.2
0°-60°	1984.3	74.7
0°-90°	2657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2657.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	849	849	849	849	849	
5°	849	844	848	848	848	81
15°	809	811	825	831	834	228
25°	736	746	768	781	788	339
35°	638	656	690	712	723	399
45°	525	553	597	630	645	406
55°	404	439	492	535	554	361
65°	275	315	376	422	440	271
75°	141	186	244	285	297	150
85°	31	57	62	62	62	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	849.3	849.3	849.3	849.3	849.3
2.5°	852.8	846.6	849.3	849.3	845.8
5°	849.3	844.0	848.5	848.5	848.5
7.5°	843.2	838.8	845.8	847.5	847.5
10°	833.5	831.8	840.6	843.2	844.0
12.5°	823.0	822.1	834.4	837.9	840.6
15°	808.9	810.7	824.7	830.9	833.5
17.5°	794.1	797.5	813.3	822.1	824.7
20°	776.5	781.8	800.2	808.9	814.3
22.5°	757.2	765.1	784.4	794.9	801.0
25°	736.1	745.7	767.7	780.8	787.9
27.5°	713.3	725.7	751.1	765.9	773.0
30°	688.7	702.7	730.9	748.5	757.2
32.5°	663.3	679.9	710.7	730.0	740.5
35°	637.9	656.3	689.6	712.4	722.9
37.5°	612.4	630.8	667.7	692.2	705.5
40°	583.5	605.4	644.9	672.1	685.3
42.5°	555.4	579.0	621.2	651.0	665.1
45°	524.6	552.8	596.6	630.0	644.9
47.5°	496.6	524.6	572.1	607.2	623.8
50°	465.9	495.7	545.7	584.4	601.9
52.5°	436.0	466.8	519.4	560.7	578.2
55°	403.6	438.7	492.2	535.2	553.6
57.5°	371.2	408.9	464.1	508.9	527.4
60°	339.6	378.1	436.0	480.8	500.1
62.5°	308.0	346.5	407.1	452.7	471.2
65°	274.6	314.9	375.5	422.0	440.5
67.5°	241.3	283.4	343.9	390.4	408.0
70°	206.2	251.0	311.5	357.1	374.7
72.5°	173.8	218.5	278.1	322.9	339.6
75°	141.3	186.0	243.9	285.2	296.6
77.5°	109.7	154.4	206.2	233.4	236.0
80°	79.8	122.0	164.1	172.0	171.0
82.5°	53.5	91.2	113.2	114.0	116.6
85°	30.7	57.0	62.3	61.5	62.3
87.5°	12.3	20.2	17.6	13.1	13.1
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)