

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: P734182

Luminaire Tested: **24FCZ2-35-B2750-W2D-CP375-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734182  
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: 24FCZ2-35-B2750-W2D-CP375-3000K  
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND RIBBED LENS, WITH, CP375 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

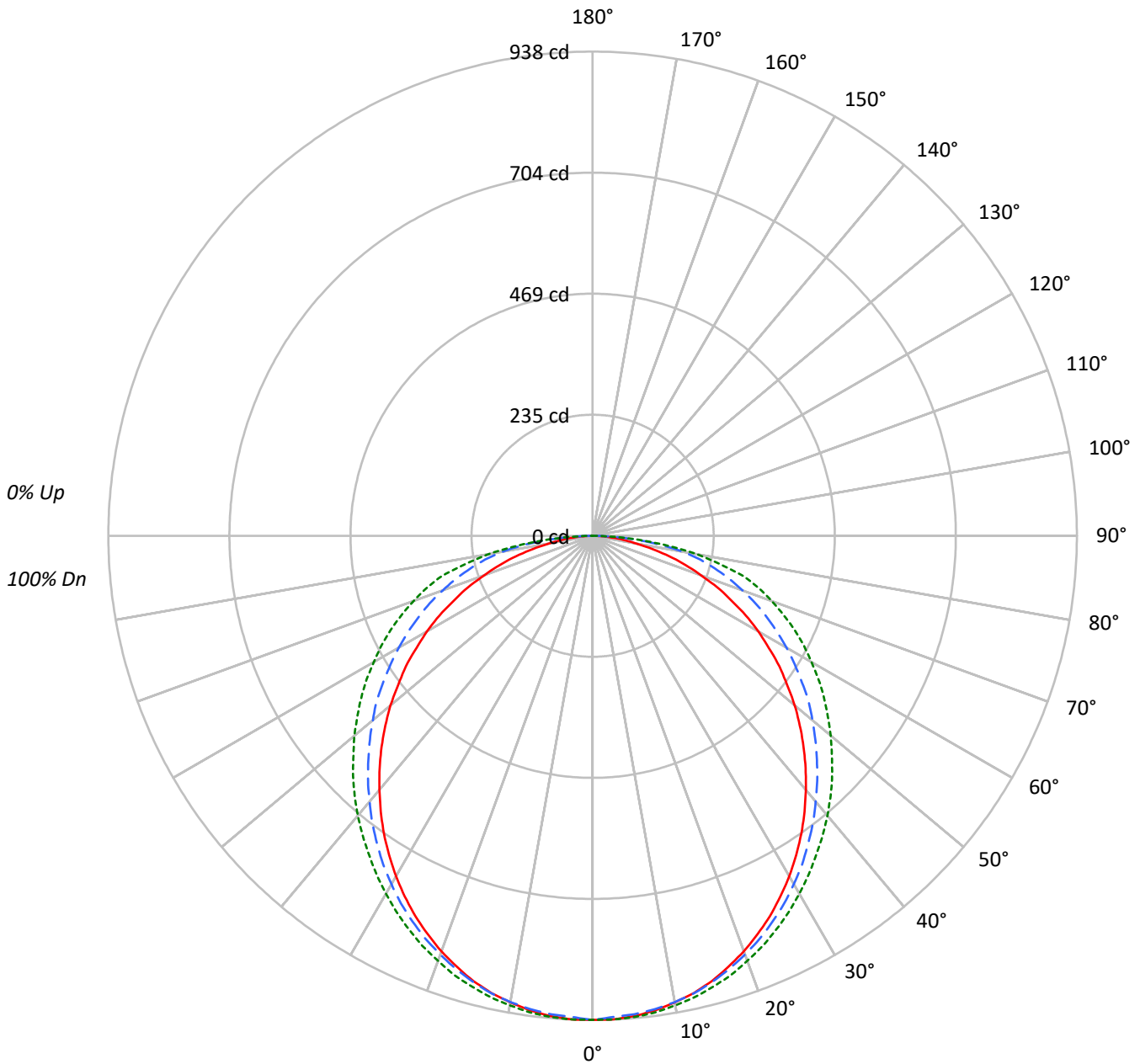
Lumens per Lamp: N/A  
Luminaire Lumens: 2793.0 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
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: P734182

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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°	1324	1324	1324
5°	1323	1318	1326
10°	1316	1314	1324
15°	1305	1308	1321
20°	1287	1296	1316
25°	1266	1285	1311
30°	1241	1270	1305
35°	1214	1254	1301
40°	1183	1238	1303
45°	1153	1226	1310
50°	1122	1220	1322
55°	1087	1218	1346
60°	1045	1223	1381
65°	990	1242	1441
70°	919	1273	1523
75°	839	1337	1652
80°	689	1439	1652
85°	528	1328	1419



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.7	3.2
10°-20°	253.2	9.1
20°-30°	381.0	13.6
30°-40°	456.6	16.3
40°-50°	475.8	17.0
50°-60°	442.7	15.9
60°-70°	364.6	13.1
70°-80°	248.3	8.9
80°-90°	82.0	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°	722.9	25.9
0°-40°	1179.5	42.2
0°-60°	2098.1	75.1
0°-90°	2793.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2793.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	938	938	938	938	938	
5°	934	934	930	935	936	89
15°	893	894	895	903	904	252
25°	813	817	825	839	842	374
35°	705	713	728	748	755	441
45°	578	590	614	645	656	446
55°	442	457	495	534	547	394
65°	296	322	372	416	432	294
75°	154	188	245	289	303	162
85°	33	63	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°	937.8	937.8	937.8	937.8	937.8
2.5°	937.8	937.8	933.1	937.8	937.8
5°	934.0	934.0	930.3	935.0	935.9
7.5°	927.4	928.5	924.8	930.3	931.3
10°	918.1	919.1	917.2	922.8	923.7
12.5°	907.0	907.9	907.9	914.4	915.4
15°	893.0	894.0	894.9	903.3	904.2
17.5°	875.3	878.1	879.9	890.3	892.1
20°	856.7	859.5	863.2	874.3	876.2
22.5°	835.2	838.9	845.4	857.6	860.4
25°	812.9	816.6	825.0	838.9	841.7
27.5°	787.7	793.3	803.5	818.5	822.2
30°	761.6	767.1	779.3	795.1	800.7
32.5°	733.6	741.1	755.0	772.7	778.4
35°	704.7	713.1	728.0	747.6	755.0
37.5°	674.0	683.3	701.0	722.4	731.7
40°	642.3	653.4	672.1	697.2	707.5
42.5°	610.5	620.8	644.1	671.2	682.3
45°	577.9	590.1	614.3	645.0	656.2
47.5°	544.3	556.5	585.3	618.0	628.3
50°	510.9	523.0	555.6	590.1	602.2
52.5°	474.5	490.3	527.6	562.1	574.2
55°	441.9	456.7	495.0	534.1	547.1
57.5°	404.6	422.2	464.2	505.2	519.2
60°	370.1	388.7	433.4	475.4	489.4
62.5°	334.7	355.1	402.7	445.6	461.4
65°	296.4	321.5	371.9	415.7	431.5
67.5°	261.9	288.1	341.2	385.9	399.9
70°	222.8	254.5	308.5	353.3	369.2
72.5°	189.2	220.9	277.7	321.5	337.4
75°	153.8	188.3	245.1	289.0	302.9
77.5°	118.4	156.6	213.5	247.1	251.7
80°	84.8	124.9	177.1	196.7	203.2
82.5°	59.7	96.1	130.6	143.6	147.3
85°	32.6	63.4	82.0	87.6	87.6
87.5°	13.9	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)