

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: P734297

Luminaire Tested: **24FCZ2-35HE-B2750-W2D-CP187-3000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734297  
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: 24FCZ2-35HE-B2750-W2D-CP187-3000K  
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT  
AND RIBBED LENS, WITH, CP187 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

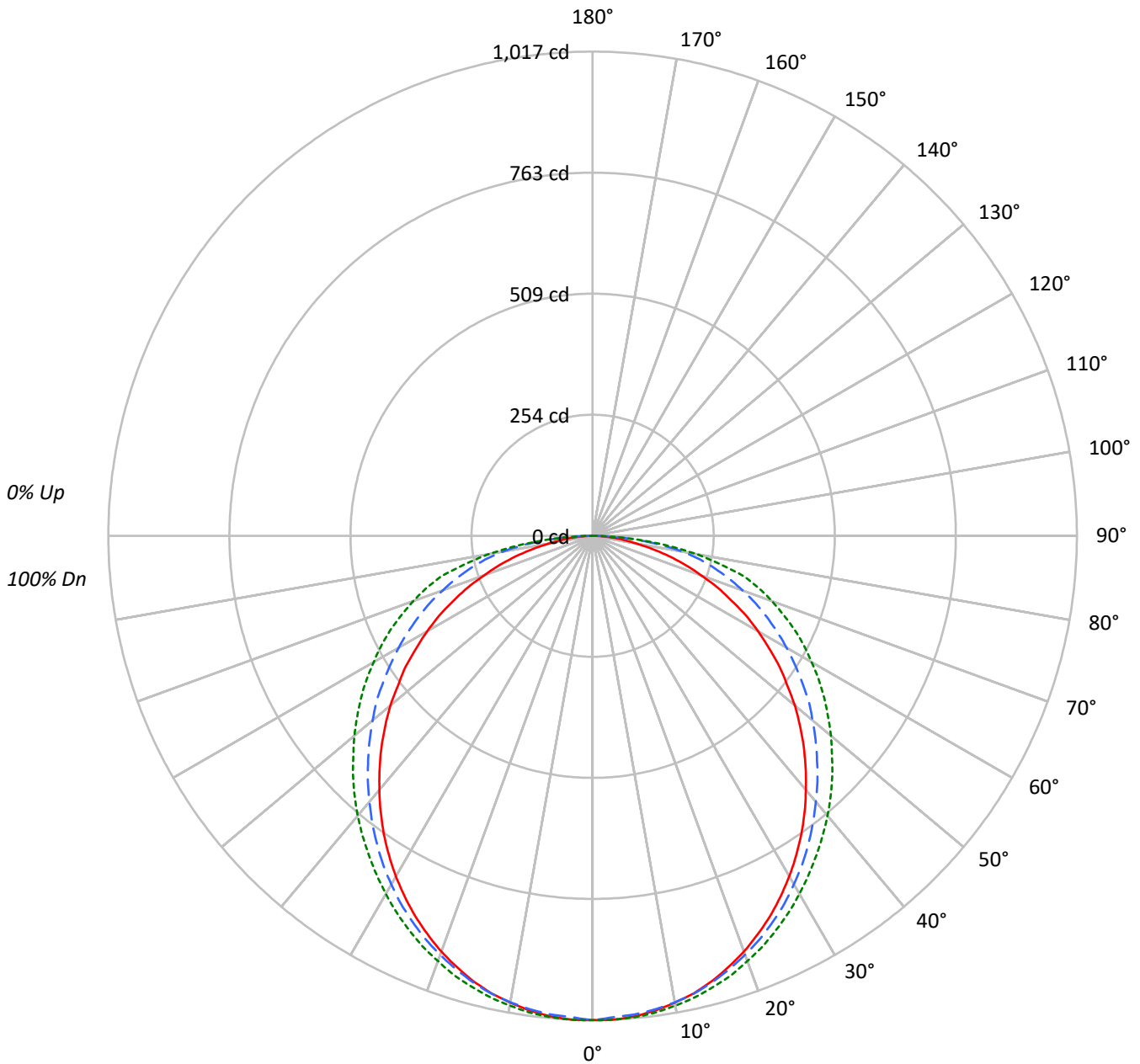
Lumens per Lamp: N/A  
Luminaire Lumens: 3030.0 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 26  
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									
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°	1436	1436	1436
5°	1435	1430	1438
10°	1427	1426	1436
15°	1415	1418	1433
20°	1396	1406	1428
25°	1373	1394	1422
30°	1346	1378	1416
35°	1317	1361	1411
40°	1284	1343	1414
45°	1251	1330	1421
50°	1217	1323	1434
55°	1180	1321	1461
60°	1133	1327	1499
65°	1074	1347	1564
70°	997	1381	1653
75°	910	1450	1792
80°	748	1561	1792
85°	572	1441	1540



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.2	3.2
10°-20°	274.7	9.1
20°-30°	413.4	13.6
30°-40°	495.4	16.3
40°-50°	516.2	17.0
50°-60°	480.3	15.9
60°-70°	395.6	13.1
70°-80°	269.4	8.9
80°-90°	88.9	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°	784.2	25.9
0°-40°	1279.6	42.2
0°-60°	2276.1	75.1
0°-90°	3030.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3030.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1017	1017	1017	1017	1017	
5°	1013	1013	1009	1014	1015	96
15°	969	970	971	980	981	273
25°	882	886	895	910	913	406
35°	764	774	790	811	819	478
45°	627	640	666	700	712	484
55°	479	496	537	579	594	427
65°	322	349	403	451	468	319
75°	167	204	266	314	329	176
85°	35	69	89	95	95	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1017.4	1017.4	1017.4	1017.4	1017.4
2.5°	1017.4	1017.4	1012.2	1017.4	1017.4
5°	1013.2	1013.2	1009.2	1014.3	1015.3
7.5°	1006.1	1007.2	1003.2	1009.2	1010.3
10°	996.0	997.1	995.1	1001.1	1002.1
12.5°	984.0	984.9	984.9	992.0	993.1
15°	968.7	969.8	970.8	979.9	980.9
17.5°	949.6	952.6	954.6	965.8	967.8
20°	929.4	932.4	936.4	948.5	950.6
22.5°	906.1	910.1	917.2	930.3	933.4
25°	881.8	885.8	895.0	910.1	913.1
27.5°	854.5	860.6	871.7	887.9	891.9
30°	826.2	832.2	845.4	862.6	868.7
32.5°	795.9	803.9	819.1	838.3	844.4
35°	764.5	773.6	789.8	811.0	819.1
37.5°	731.2	741.3	760.4	783.7	793.8
40°	696.8	708.9	729.1	756.4	767.5
42.5°	662.3	673.5	698.8	728.1	740.2
45°	627.0	640.1	666.5	699.7	711.9
47.5°	590.5	603.7	635.0	670.5	681.6
50°	554.2	567.4	602.7	640.1	653.3
52.5°	514.7	531.9	572.4	609.8	622.9
55°	479.4	495.5	537.0	579.4	593.6
57.5°	438.9	458.0	503.6	548.1	563.2
60°	401.5	421.7	470.2	515.7	530.9
62.5°	363.1	385.3	436.8	483.4	500.6
65°	321.5	348.8	403.4	451.0	468.2
67.5°	284.1	312.5	370.2	418.7	433.8
70°	241.7	276.1	334.7	383.3	400.5
72.5°	205.3	239.6	301.3	348.8	366.0
75°	166.9	204.3	265.9	313.5	328.6
77.5°	128.5	169.9	231.6	268.0	273.0
80°	92.0	135.5	192.1	213.4	220.5
82.5°	64.7	104.2	141.6	155.8	159.8
85°	35.3	68.7	89.0	95.1	95.1
87.5°	15.1	29.4	35.3	36.4	37.4
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)