

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: P734296

Luminaire Tested: **24FCZ2-35HE-B2750-W2D-CP187-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734296  
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-CP187-2700K  
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT  
AND RIBBED LENS, WITH, CP187 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

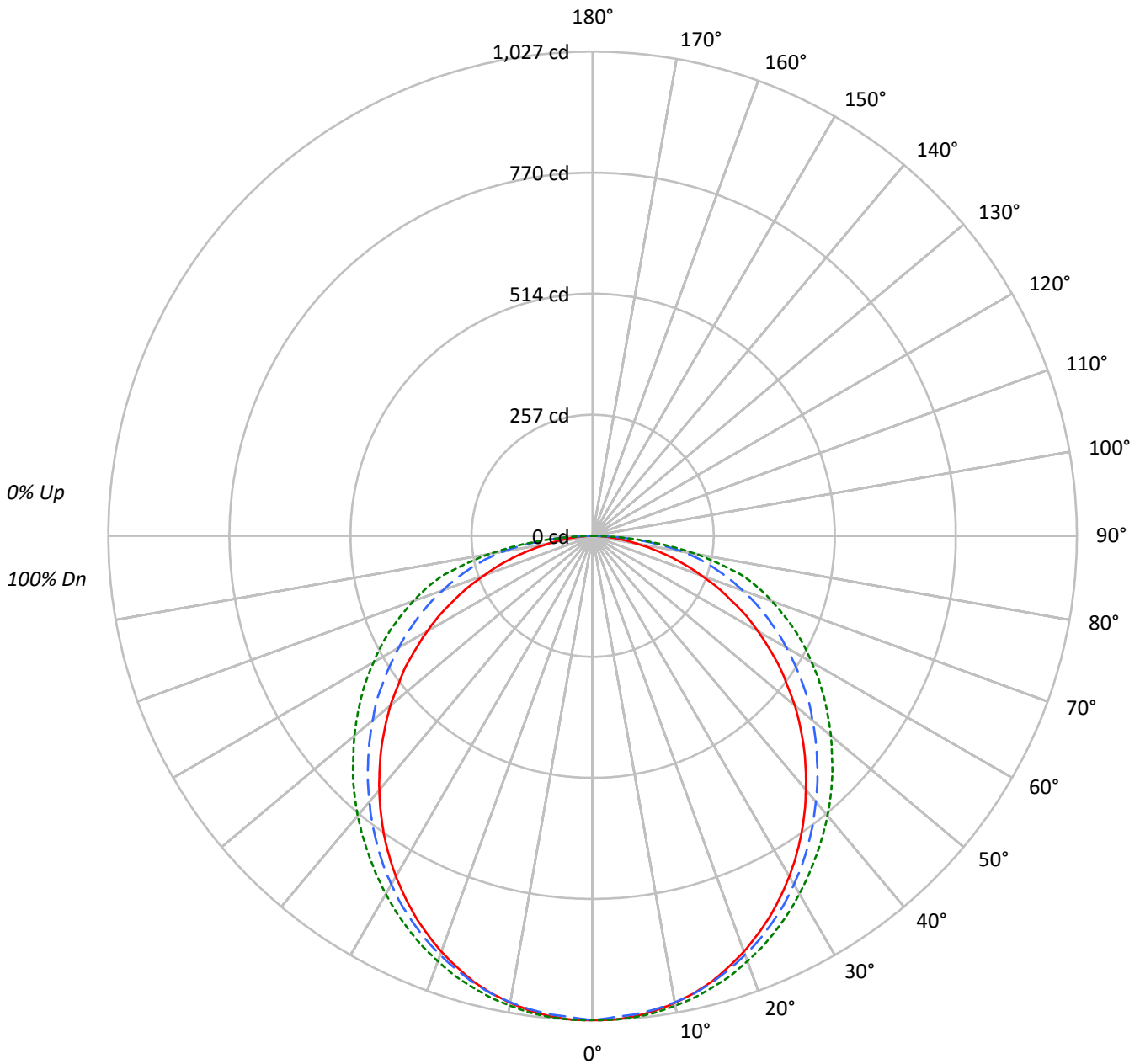
Lumens per Lamp: N/A  
Luminaire Lumens: 3060.0 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1450	1450	1450
5°	1450	1444	1453
10°	1442	1440	1450
15°	1429	1432	1447
20°	1410	1420	1442
25°	1387	1407	1436
30°	1360	1391	1430
35°	1330	1374	1425
40°	1296	1357	1428
45°	1264	1343	1435
50°	1229	1336	1449
55°	1191	1334	1475
60°	1145	1340	1514
65°	1084	1361	1579
70°	1007	1395	1669
75°	919	1465	1810
80°	755	1577	1810
85°	578	1456	1555



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.2	3.2
10°-20°	277.4	9.1
20°-30°	417.4	13.6
30°-40°	500.3	16.3
40°-50°	521.3	17.0
50°-60°	485.0	15.9
60°-70°	399.5	13.1
70°-80°	272.1	8.9
80°-90°	89.8	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°	792.0	25.9
0°-40°	1292.3	42.2
0°-60°	2298.6	75.1
0°-90°	3060.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3060.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1027	1027	1027	1027	1027	
5°	1023	1023	1019	1024	1025	97
15°	978	979	980	990	991	276
25°	891	895	904	919	922	410
35°	772	781	798	819	827	483
45°	633	646	673	707	719	488
55°	484	500	542	585	599	431
65°	325	352	407	455	473	322
75°	168	206	269	317	332	178
85°	36	69	90	96	96	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1027.4	1027.4	1027.4	1027.4	1027.4
2.5°	1027.4	1027.4	1022.3	1027.4	1027.4
5°	1023.2	1023.2	1019.2	1024.4	1025.3
7.5°	1016.1	1017.2	1013.2	1019.2	1020.3
10°	1005.9	1007.0	1004.9	1011.1	1012.0
12.5°	993.7	994.7	994.7	1001.8	1002.9
15°	978.3	979.4	980.4	989.6	990.6
17.5°	959.0	962.1	964.0	975.4	977.3
20°	938.6	941.6	945.7	957.9	960.0
22.5°	915.1	919.1	926.3	939.5	942.6
25°	890.6	894.6	903.8	919.1	922.2
27.5°	863.0	869.1	880.3	896.7	900.8
30°	834.4	840.5	853.8	871.1	877.3
32.5°	803.8	811.9	827.2	846.6	852.8
35°	772.0	781.3	797.6	819.0	827.2
37.5°	738.4	748.6	768.0	791.5	801.7
40°	703.7	715.9	736.3	763.9	775.1
42.5°	668.9	680.2	705.7	735.3	747.5
45°	633.2	646.5	673.1	706.7	719.0
47.5°	596.4	609.7	641.3	677.1	688.3
50°	559.7	573.0	608.7	646.5	659.8
52.5°	519.8	537.2	578.0	615.8	629.1
55°	484.1	500.4	542.3	585.2	599.4
57.5°	443.2	462.6	508.6	553.5	568.8
60°	405.5	425.9	474.9	520.8	536.2
62.5°	366.7	389.1	441.2	488.2	505.5
65°	324.7	352.3	407.4	455.4	472.8
67.5°	286.9	315.6	373.8	422.8	438.1
70°	244.1	278.8	338.0	387.1	404.5
72.5°	207.3	242.0	304.3	352.3	369.6
75°	168.5	206.3	268.6	316.6	331.9
77.5°	129.7	171.6	233.9	270.7	275.7
80°	92.9	136.9	194.0	215.5	222.7
82.5°	65.4	105.2	143.0	157.3	161.4
85°	35.7	69.4	89.9	96.0	96.0
87.5°	15.3	29.7	35.7	36.8	37.8
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)