

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: P734295

Luminaire Tested: **24FCZ2-35HE-B2750-W2D-CA125-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P734295  
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-CA125-5000K  
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT  
AND RIBBED LENS, WITH, CA125 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

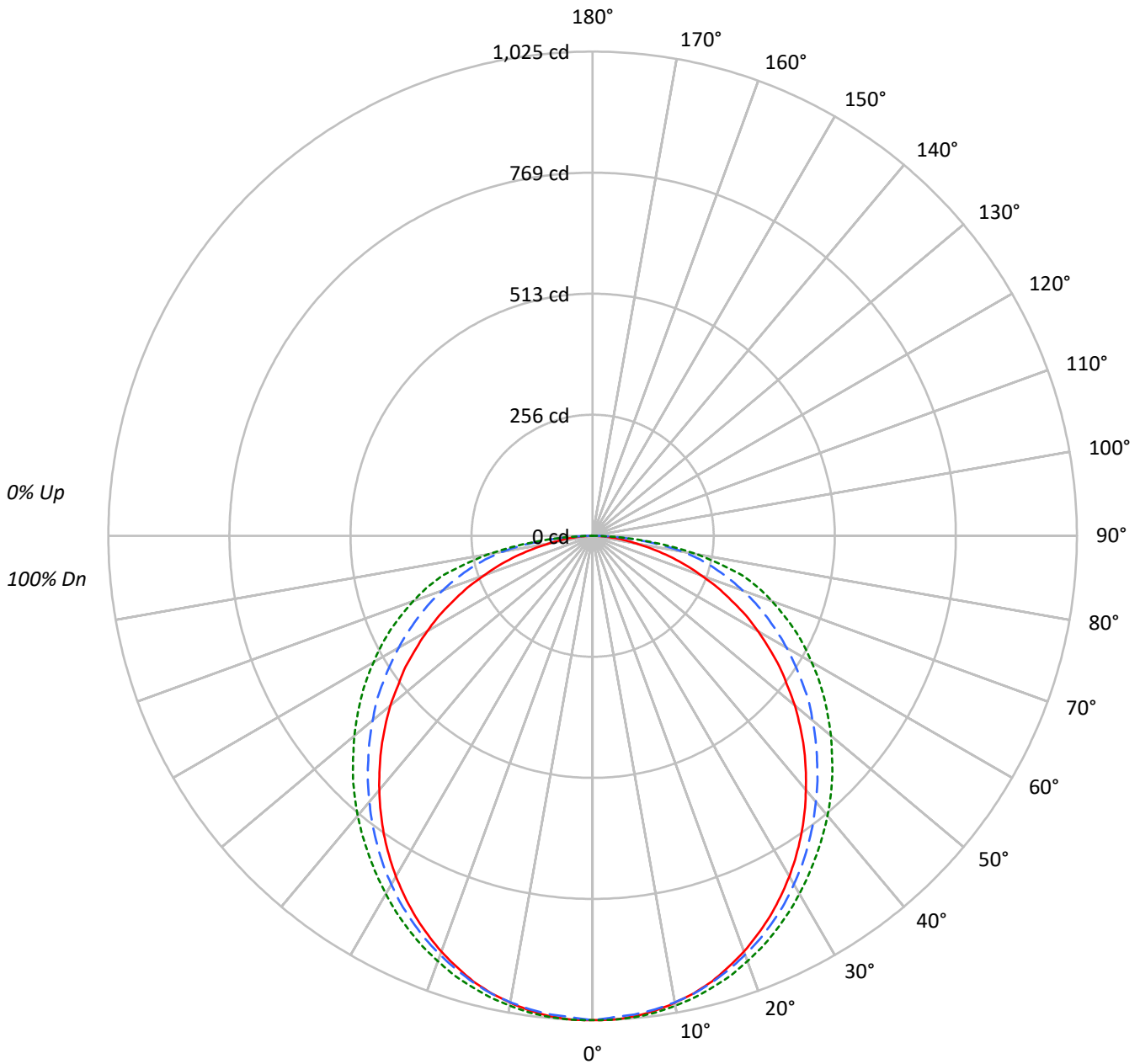
Lumens per Lamp: N/A  
Luminaire Lumens: 3054.0 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1447	1447	1447
5°	1447	1441	1450
10°	1439	1437	1448
15°	1427	1430	1445
20°	1407	1418	1439
25°	1384	1405	1433
30°	1357	1389	1427
35°	1328	1372	1422
40°	1294	1354	1425
45°	1261	1341	1432
50°	1226	1334	1446
55°	1189	1332	1472
60°	1142	1338	1510
65°	1082	1358	1576
70°	1005	1392	1666
75°	917	1462	1806
80°	754	1573	1806
85°	576	1453	1551



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.0	3.2
10°-20°	276.9	9.1
20°-30°	416.6	13.6
30°-40°	499.3	16.3
40°-50°	520.3	17.0
50°-60°	484.1	15.9
60°-70°	398.7	13.1
70°-80°	271.5	8.9
80°-90°	89.6	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°	790.5	25.9
0°-40°	1289.7	42.2
0°-60°	2294.1	75.1
0°-90°	3054.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3054.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1025	1025	1025	1025	1025	
5°	1021	1021	1017	1022	1023	97
15°	976	978	978	988	989	275
25°	889	893	902	917	920	409
35°	770	780	796	817	826	482
45°	632	645	672	705	718	487
55°	483	499	541	584	598	431
65°	324	352	407	454	472	322
75°	168	206	268	316	331	177
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°	1025.4	1025.4	1025.4	1025.4	1025.4
2.5°	1025.4	1025.4	1020.3	1025.4	1025.4
5°	1021.2	1021.2	1017.2	1022.3	1023.3
7.5°	1014.1	1015.2	1011.2	1017.2	1018.3
10°	1003.9	1005.0	1002.9	1009.1	1010.1
12.5°	991.8	992.7	992.7	999.9	1001.0
15°	976.4	977.5	978.5	987.7	988.7
17.5°	957.1	960.2	962.2	973.5	975.4
20°	936.7	939.8	943.8	956.0	958.1
22.5°	913.3	917.3	924.4	937.7	940.8
25°	888.8	892.9	902.1	917.3	920.4
27.5°	861.3	867.4	878.6	895.0	899.0
30°	832.8	838.8	852.1	869.4	875.5
32.5°	802.2	810.3	825.5	845.0	851.1
35°	770.5	779.7	796.1	817.4	825.5
37.5°	737.0	747.2	766.5	789.9	800.1
40°	702.3	714.5	734.9	762.4	773.6
42.5°	667.6	678.9	704.3	733.9	746.1
45°	631.9	645.2	671.7	705.3	717.6
47.5°	595.2	608.5	640.0	675.8	687.0
50°	558.6	571.9	607.5	645.2	658.5
52.5°	518.8	536.1	576.9	614.6	627.9
55°	483.2	499.4	541.3	584.0	598.3
57.5°	442.4	461.7	507.6	552.5	567.7
60°	404.7	425.1	473.9	519.8	535.1
62.5°	366.0	388.3	440.3	487.2	504.5
65°	324.1	351.6	406.6	454.5	471.9
67.5°	286.4	315.0	373.1	422.0	437.2
70°	243.6	278.3	337.3	386.4	403.7
72.5°	206.9	241.5	303.7	351.6	368.9
75°	168.2	205.9	268.1	316.0	331.2
77.5°	129.5	171.3	233.4	270.1	275.2
80°	92.8	136.6	193.6	215.1	222.2
82.5°	65.2	105.0	142.8	157.0	161.1
85°	35.6	69.3	89.7	95.8	95.8
87.5°	15.2	29.6	35.6	36.7	37.7
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)