

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: P734309

Luminaire Tested: **24FCZ2-35HE-B2750-W2D-CP375-4000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P734309  
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-CP375-4000K  
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND RIBBED LENS, WITH, CP375 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

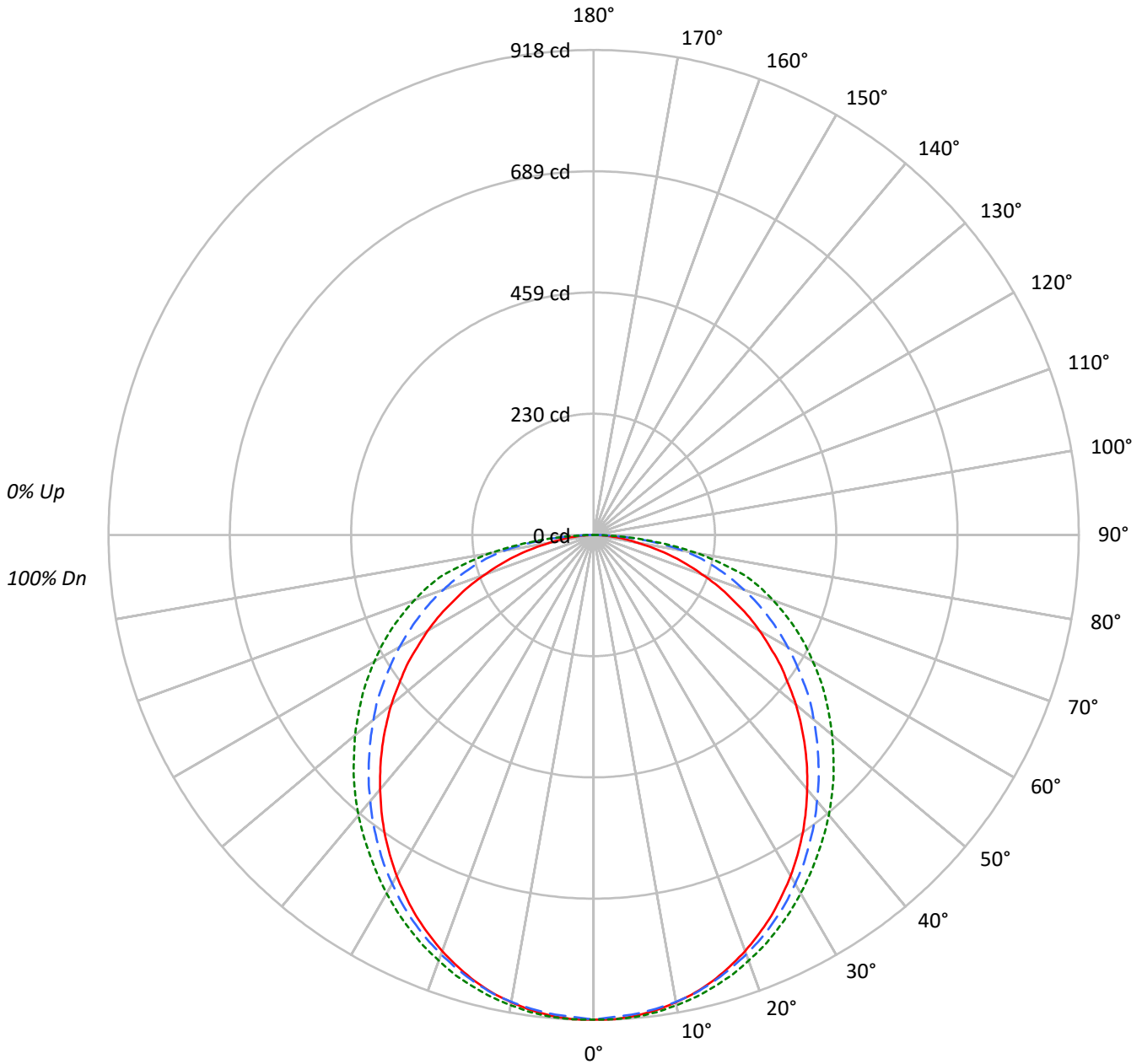
Lumens per Lamp: N/A  
Luminaire Lumens: 2733.0 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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°	1295	1295	1295
5°	1295	1290	1297
10°	1288	1286	1295
15°	1277	1279	1293
20°	1259	1269	1288
25°	1239	1257	1283
30°	1215	1243	1277
35°	1188	1227	1273
40°	1158	1212	1275
45°	1129	1200	1282
50°	1098	1194	1294
55°	1064	1192	1317
60°	1022	1197	1352
65°	968	1215	1410
70°	900	1246	1491
75°	821	1308	1616
80°	675	1409	1617
85°	517	1300	1389



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.8	3.2
10°-20°	247.8	9.1
20°-30°	372.8	13.6
30°-40°	446.8	16.3
40°-50°	465.6	17.0
50°-60°	433.2	15.9
60°-70°	356.8	13.1
70°-80°	243.0	8.9
80°-90°	80.2	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°	707.4	25.9
0°-40°	1154.2	42.2
0°-60°	2053.0	75.1
0°-90°	2733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2733.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	914	914	910	915	916	87
15°	874	875	876	884	885	246
25°	795	799	807	821	824	366
35°	690	698	712	732	739	431
45°	566	577	601	631	642	436
55°	432	447	484	523	535	385
65°	290	315	364	407	422	288
75°	150	184	240	283	296	159
85°	32	62	80	86	86	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	917.6	917.6	917.6	917.6	917.6
2.5°	917.6	917.6	913.0	917.6	917.6
5°	913.9	913.9	910.3	914.9	915.8
7.5°	907.5	908.5	904.9	910.3	911.3
10°	898.4	899.4	897.5	903.0	903.9
12.5°	887.5	888.4	888.4	894.8	895.8
15°	873.8	874.8	875.6	883.9	884.8
17.5°	856.5	859.3	861.0	871.1	872.9
20°	838.3	841.0	844.6	855.5	857.4
22.5°	817.3	820.9	827.3	839.1	841.9
25°	795.4	799.0	807.3	820.9	823.6
27.5°	770.8	776.3	786.3	800.9	804.5
30°	745.3	750.6	762.5	778.0	783.5
32.5°	717.9	725.1	738.8	756.1	761.6
35°	689.5	697.8	712.4	731.5	738.8
37.5°	659.5	668.6	685.9	706.9	716.0
40°	628.5	639.4	657.6	682.3	692.3
42.5°	597.4	607.5	630.3	656.8	667.6
45°	565.5	577.4	601.1	631.1	642.1
47.5°	532.6	544.5	572.8	604.8	614.8
50°	499.9	511.8	543.6	577.4	589.3
52.5°	464.3	479.8	516.3	550.0	561.9
55°	432.4	446.9	484.4	522.6	535.4
57.5°	395.9	413.1	454.3	494.4	508.0
60°	362.1	380.4	424.1	465.1	478.9
62.5°	327.5	347.5	394.0	436.0	451.5
65°	290.0	314.6	363.9	406.8	422.3
67.5°	256.3	281.9	333.9	377.6	391.3
70°	218.0	249.0	301.9	345.7	361.3
72.5°	185.1	216.1	271.8	314.6	330.1
75°	150.5	184.3	239.9	282.8	296.4
77.5°	115.9	153.3	208.9	241.7	246.3
80°	83.0	122.2	173.3	192.5	198.9
82.5°	58.4	94.0	127.7	140.5	144.1
85°	31.9	62.0	80.3	85.8	85.8
87.5°	13.6	26.5	31.9	32.9	33.8
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)