

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: P734054

Luminaire Tested: **24FCZ2-30HE-B2750-W2D-CP250-4000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P734054  
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: 24FCZ2-30HE-B2750-W2D-CP250-4000K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT  
AND RIBBED LENS, WITH, CP250 BOTTOM LENS

Light Source: -  
Ballast/Driver: -

**Summary**

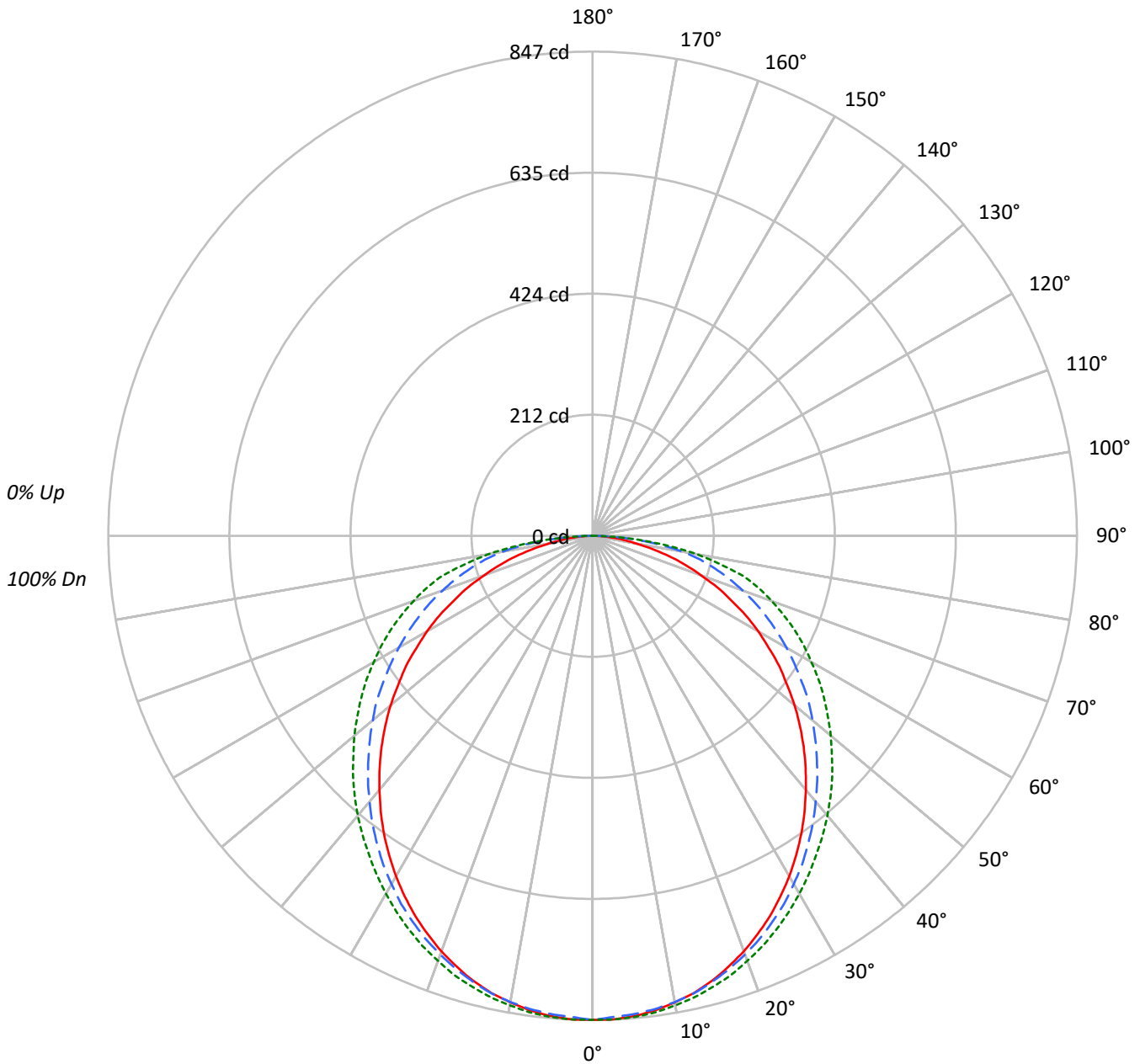
Lumens per Lamp: N/A  
Luminaire Lumens: 2522.0 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 22  
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°	1195	1195	1195
5°	1195	1190	1197
10°	1188	1187	1195
15°	1178	1181	1193
20°	1162	1171	1188
25°	1143	1160	1184
30°	1121	1147	1178
35°	1096	1133	1175
40°	1069	1118	1177
45°	1042	1107	1183
50°	1013	1102	1194
55°	982	1100	1216
60°	943	1105	1247
65°	894	1121	1301
70°	830	1150	1376
75°	757	1207	1491
80°	623	1300	1491
85°	476	1200	1281



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.1	3.2
10°-20°	228.6	9.1
20°-30°	344.1	13.6
30°-40°	412.3	16.3
40°-50°	429.7	17.0
50°-60°	399.8	15.9
60°-70°	329.2	13.1
70°-80°	224.2	8.9
80°-90°	74.0	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°	652.8	25.9
0°-40°	1065.1	42.2
0°-60°	1894.5	75.1
0°-90°	2522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2522.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	847	847	847	847	847	
5°	843	843	840	844	845	80
15°	806	807	808	816	816	227
25°	734	737	745	758	760	338
35°	636	644	657	675	682	398
45°	522	533	555	582	593	402
55°	399	412	447	482	494	356
65°	268	290	336	375	390	266
75°	139	170	221	261	274	146
85°	29	57	74	79	79	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	846.8	846.8	846.8	846.8	846.8
2.5°	846.8	846.8	842.5	846.8	846.8
5°	843.3	843.3	840.0	844.3	845.1
7.5°	837.5	838.4	835.0	840.0	840.9
10°	829.0	830.0	828.2	833.3	834.1
12.5°	819.0	819.8	819.8	825.7	826.6
15°	806.3	807.2	808.0	815.6	816.5
17.5°	790.4	792.9	794.5	803.9	805.5
20°	773.5	776.1	779.4	789.5	791.2
22.5°	754.2	757.5	763.4	774.4	776.9
25°	734.0	737.3	744.9	757.5	760.1
27.5°	711.3	716.3	725.6	739.1	742.4
30°	687.7	692.7	703.6	718.0	723.0
32.5°	662.5	669.2	681.7	697.8	702.8
35°	636.3	643.9	657.4	675.0	681.7
37.5°	608.6	617.0	632.9	652.3	660.7
40°	580.0	590.0	606.9	629.6	638.8
42.5°	551.3	560.6	581.6	606.1	616.1
45°	521.9	532.8	554.7	582.4	592.6
47.5°	491.5	502.5	528.5	558.1	567.3
50°	461.3	472.2	501.7	532.8	543.8
52.5°	428.4	442.7	476.4	507.5	518.5
55°	399.0	412.4	447.0	482.3	494.1
57.5°	365.3	381.2	419.2	456.2	468.8
60°	334.2	351.0	391.4	429.2	441.9
62.5°	302.2	320.7	363.6	402.3	416.6
65°	267.6	290.3	335.8	375.4	389.7
67.5°	236.5	260.1	308.1	348.5	361.1
70°	201.2	229.8	278.6	319.1	333.4
72.5°	170.8	199.4	250.8	290.3	304.7
75°	138.9	170.0	221.4	260.9	273.5
77.5°	106.9	141.4	192.8	223.1	227.2
80°	76.6	112.8	159.9	177.6	183.5
82.5°	53.9	86.7	117.9	129.7	133.0
85°	29.4	57.2	74.1	79.1	79.1
87.5°	12.6	24.4	29.4	30.3	31.1
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)