

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: P734053

Luminaire Tested: **24FCZ2-30HE-B2750-W2D-CP250-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734053
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-CP250-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RIBBED LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

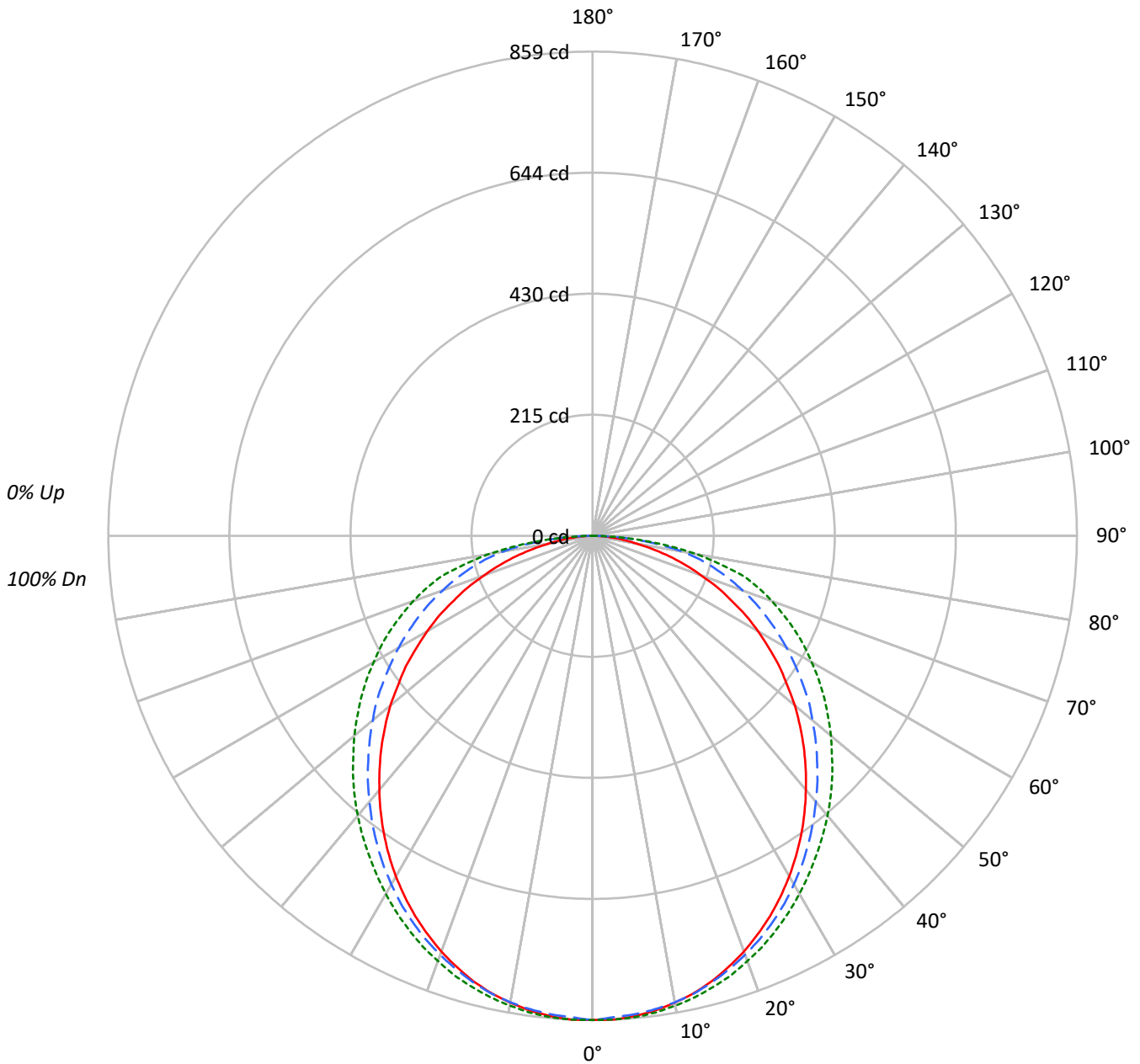
Lumens per Lamp: N/A
Luminaire Lumens: 2559.0 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 22
Input Voltage (V): NR
Input Current (A_{in}): 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°	1213	1213	1213
5°	1212	1207	1215
10°	1206	1204	1213
15°	1195	1198	1210
20°	1179	1188	1206
25°	1160	1177	1201
30°	1137	1164	1196
35°	1112	1149	1192
40°	1084	1135	1194
45°	1057	1124	1200
50°	1028	1118	1211
55°	996	1116	1233
60°	957	1121	1266
65°	907	1138	1320
70°	842	1167	1396
75°	768	1225	1513
80°	632	1318	1513
85°	484	1216	1300



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	3.2
10°-20°	232.0	9.1
20°-30°	349.1	13.6
30°-40°	418.4	16.3
40°-50°	436.0	17.0
50°-60°	405.6	15.9
60°-70°	334.1	13.1
70°-80°	227.5	8.9
80°-90°	75.1	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°	662.3	25.9
0°-40°	1080.7	42.2
0°-60°	1922.3	75.1
0°-90°	2559.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2559.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	859	859	859	859	859	
5°	856	856	852	857	858	81
15°	818	819	820	828	828	230
25°	745	748	756	769	771	343
35°	646	653	667	685	692	404
45°	530	541	563	591	601	408
55°	405	418	454	489	501	361
65°	272	295	341	381	395	270
75°	141	172	225	265	278	149
85°	30	58	75	80	80	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	859.2	859.2	859.2	859.2	859.2
2.5°	859.2	859.2	854.9	859.2	859.2
5°	855.7	855.7	852.3	856.6	857.5
7.5°	849.7	850.7	847.3	852.3	853.2
10°	841.2	842.1	840.4	845.5	846.3
12.5°	831.0	831.8	831.8	837.8	838.7
15°	818.1	819.1	819.9	827.6	828.4
17.5°	802.0	804.6	806.2	815.7	817.3
20°	784.9	787.5	790.9	801.1	802.8
22.5°	765.2	768.6	774.6	785.7	788.3
25°	744.7	748.1	755.9	768.6	771.2
27.5°	721.7	726.8	736.2	749.9	753.3
30°	697.8	702.9	714.0	728.5	733.6
32.5°	672.2	679.0	691.7	708.0	713.1
35°	645.6	653.3	667.0	684.9	691.7
37.5°	617.5	626.1	642.2	661.9	670.4
40°	588.5	598.7	615.8	638.8	648.2
42.5°	559.4	568.8	590.1	614.9	625.1
45°	529.5	540.6	562.9	591.0	601.3
47.5°	498.7	509.8	536.3	566.3	575.6
50°	468.1	479.2	509.0	540.6	551.7
52.5°	434.7	449.2	483.4	515.0	526.1
55°	404.9	418.4	453.5	489.4	501.3
57.5°	370.7	386.8	425.3	462.9	475.7
60°	339.1	356.2	397.1	435.5	448.4
62.5°	306.6	325.4	368.9	408.2	422.8
65°	271.5	294.6	340.7	380.9	395.4
67.5°	239.9	263.9	312.6	353.6	366.4
70°	204.1	233.2	282.7	323.7	338.3
72.5°	173.3	202.4	254.5	294.6	309.1
75°	140.9	172.5	224.6	264.8	277.5
77.5°	108.5	143.5	195.6	226.4	230.6
80°	77.7	114.5	162.2	180.2	186.2
82.5°	54.7	88.0	119.6	131.6	135.0
85°	29.9	58.1	75.1	80.3	80.3
87.5°	12.8	24.8	29.9	30.8	31.6
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)