

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: P733915

Luminaire Tested: **24FCZ2-30-B2750-W2D-CA08-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733915
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: 24FCZ2-30-B2750-W2D-CA08-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

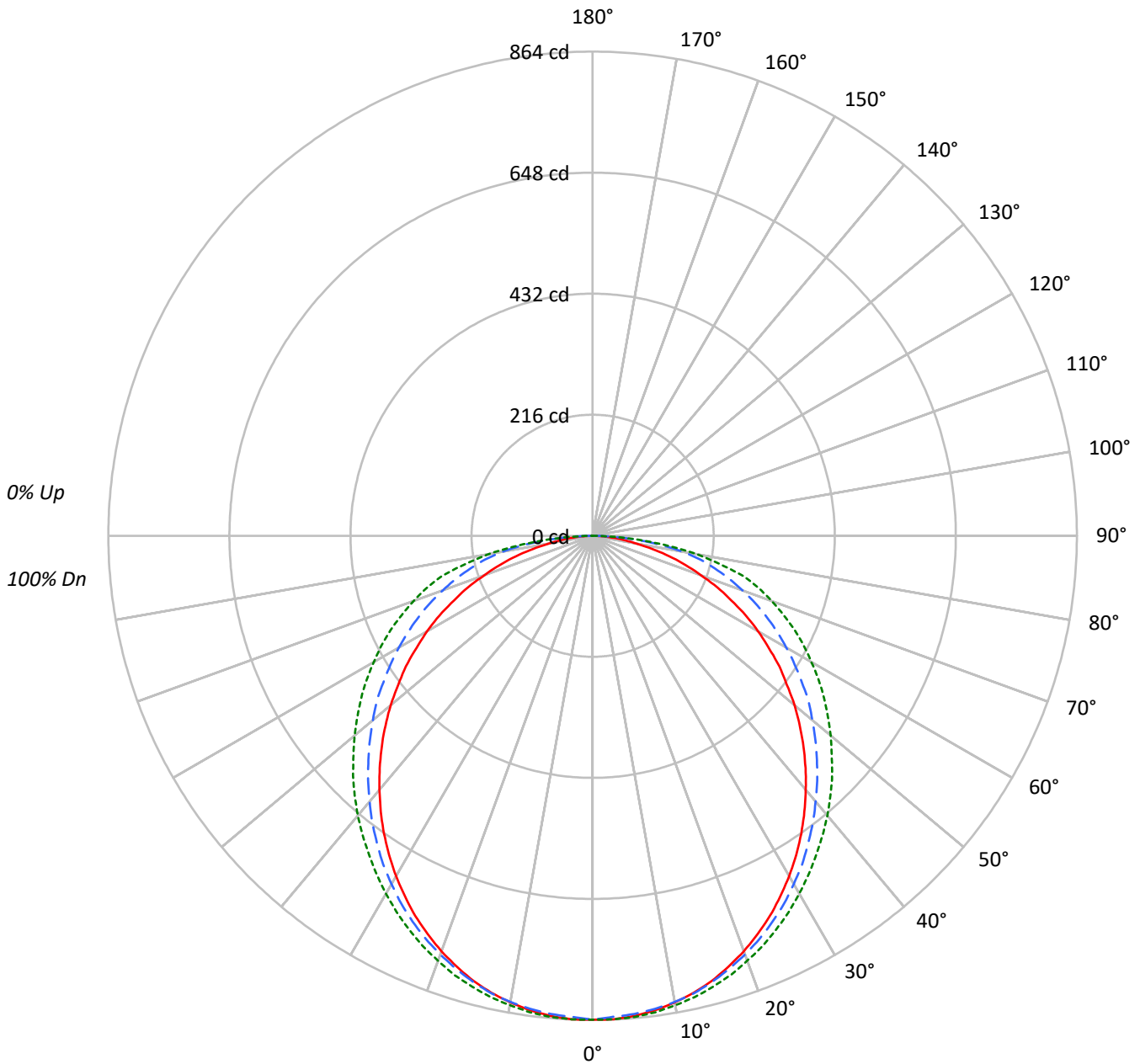
Lumens per Lamp: N/A
Luminaire Lumens: 2572.0 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
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°	1219	1219	1219
5°	1219	1214	1221
10°	1212	1210	1219
15°	1201	1204	1217
20°	1185	1194	1212
25°	1166	1183	1207
30°	1143	1169	1202
35°	1118	1155	1198
40°	1090	1140	1200
45°	1062	1129	1206
50°	1033	1123	1217
55°	1001	1122	1240
60°	962	1127	1272
65°	911	1144	1327
70°	847	1172	1403
75°	772	1231	1521
80°	635	1326	1521
85°	486	1223	1307



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	3.2
10°-20°	233.2	9.1
20°-30°	350.9	13.6
30°-40°	420.5	16.3
40°-50°	438.2	17.0
50°-60°	407.7	15.9
60°-70°	335.8	13.1
70°-80°	228.7	8.9
80°-90°	75.5	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°	665.7	25.9
0°-40°	1086.2	42.2
0°-60°	1932.0	75.1
0°-90°	2572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2572.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	864	864	864	864	864	
5°	860	860	857	861	862	82
15°	822	823	824	832	833	232
25°	748	752	760	772	775	345
35°	649	657	670	688	695	406
45°	532	543	566	594	604	410
55°	407	421	456	492	504	363
65°	273	296	342	383	397	271
75°	142	173	226	266	279	149
85°	30	58	76	81	81	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	863.6	863.6	863.6	863.6	863.6
2.5°	863.6	863.6	859.2	863.6	863.6
5°	860.1	860.1	856.6	861.0	861.8
7.5°	854.1	855.0	851.6	856.6	857.6
10°	845.5	846.4	844.6	849.8	850.6
12.5°	835.2	836.1	836.1	842.1	843.0
15°	822.3	823.2	824.1	831.8	832.6
17.5°	806.1	808.6	810.3	819.8	821.5
20°	788.9	791.5	794.9	805.1	806.9
22.5°	769.1	772.5	778.5	789.7	792.3
25°	748.5	751.9	759.7	772.5	775.1
27.5°	725.4	730.5	739.9	753.7	757.1
30°	701.4	706.4	717.6	732.2	737.4
32.5°	675.6	682.4	695.3	711.6	716.8
35°	648.9	656.7	670.4	688.4	695.3
37.5°	620.7	629.2	645.5	665.2	673.8
40°	591.5	601.7	618.9	642.1	651.5
42.5°	562.2	571.7	593.1	618.1	628.3
45°	532.2	543.4	565.7	594.0	604.3
47.5°	501.3	512.4	539.0	569.1	578.5
50°	470.4	481.6	511.6	543.4	554.5
52.5°	436.9	451.5	485.8	517.6	528.8
55°	406.9	420.6	455.8	491.8	503.8
57.5°	372.6	388.8	427.5	465.3	478.1
60°	340.8	358.0	399.1	437.7	450.7
62.5°	308.2	327.0	370.8	410.3	424.9
65°	272.9	296.1	342.5	382.8	397.4
67.5°	241.2	265.3	314.2	355.4	368.2
70°	205.2	234.3	284.1	325.4	340.0
72.5°	174.2	203.4	255.8	296.1	310.7
75°	141.6	173.4	225.7	266.1	278.9
77.5°	109.0	144.2	196.6	227.5	231.8
80°	78.1	115.0	163.1	181.2	187.2
82.5°	54.9	88.5	120.2	132.2	135.6
85°	30.0	58.4	75.5	80.7	80.7
87.5°	12.8	24.9	30.0	30.9	31.8
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)