

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: P734008

Luminaire Tested: **24FCZ2-30-S-B2750-W2D-CP375-3500K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P734008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-30-S-B2750-W2D-CP375-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SMOOTH LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

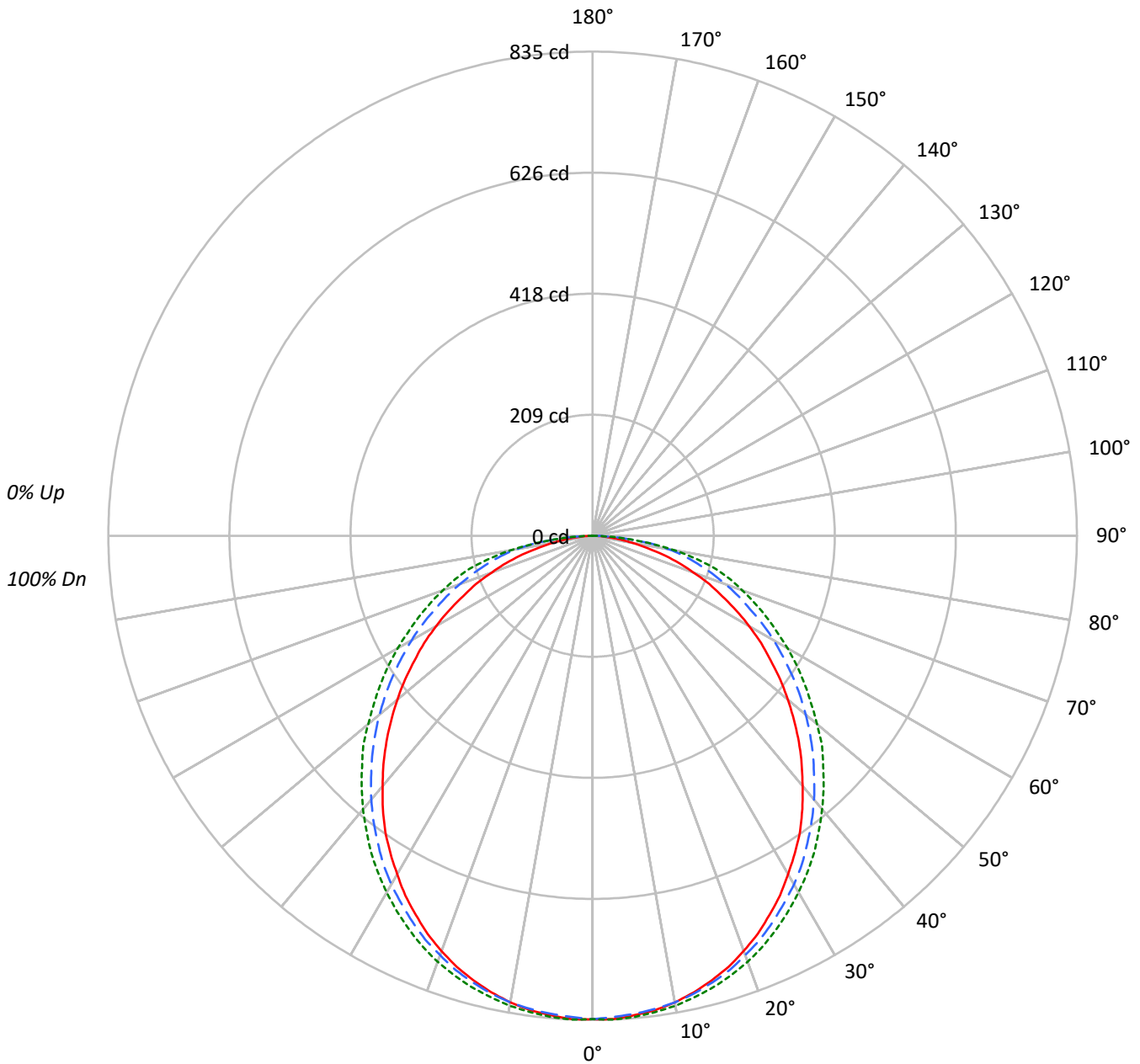
Lumens per Lamp: N/A
Luminaire Lumens: 2373.0 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1177	1177	1177
5°	1176	1172	1180
10°	1171	1171	1180
15°	1160	1165	1177
20°	1144	1156	1174
25°	1123	1144	1167
30°	1098	1131	1157
35°	1074	1113	1148
40°	1037	1094	1135
45°	1004	1073	1122
50°	965	1053	1109
55°	922	1033	1098
60°	879	1017	1095
65°	823	999	1102
70°	762	1005	1132
75°	682	1024	1196
80°	551	1084	1170
85°	415	952	928



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.9	3.3
10°-20°	225.5	9.5
20°-30°	339.0	14.3
30°-40°	403.8	17.0
40°-50°	413.3	17.4
50°-60°	372.1	15.7
60°-70°	292.2	12.3
70°-80°	189.6	8.0
80°-90°	58.6	2.5
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°	643.4	27.1
0°-40°	1047.2	44.1
0°-60°	1832.5	77.2
0°-90°	2373.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2373.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	834	834	834	834	834	
5°	830	831	828	832	833	79
15°	794	796	798	804	806	224
25°	721	727	735	747	749	332
35°	623	631	646	662	666	389
45°	503	515	537	558	562	388
55°	375	391	420	442	446	336
65°	246	265	299	324	330	245
75°	125	149	188	213	219	132
85°	26	48	59	57	57	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	833.7	833.7	833.7	833.7	833.7
2.5°	834.4	834.4	830.6	834.4	835.1
5°	829.9	831.4	827.6	832.1	832.9
7.5°	825.3	825.3	823.1	827.6	828.4
10°	817.1	817.8	817.1	822.3	823.1
12.5°	806.5	808.0	808.8	814.1	814.8
15°	793.7	796.0	797.5	804.3	805.8
17.5°	779.4	781.7	785.4	792.9	794.5
20°	762.0	765.0	769.6	779.4	781.7
22.5°	743.2	746.2	753.8	762.8	766.6
25°	721.4	727.3	734.9	747.0	749.2
27.5°	699.5	704.7	714.5	727.3	730.4
30°	673.9	682.1	694.2	707.0	710.0
32.5°	649.0	657.2	671.6	685.2	688.9
35°	623.4	630.9	646.0	661.8	666.3
37.5°	593.9	603.7	620.4	636.2	640.7
40°	563.1	575.1	593.9	610.6	615.8
42.5°	533.6	546.4	565.3	583.4	589.4
45°	502.8	514.8	537.4	557.8	562.3
47.5°	471.1	484.7	508.8	529.1	536.6
50°	439.5	453.8	479.4	500.5	505.0
52.5°	407.8	422.8	450.0	472.6	474.9
55°	374.6	391.2	419.8	441.7	446.3
57.5°	344.5	358.8	389.7	412.3	417.6
60°	311.3	327.1	360.3	381.4	388.1
62.5°	279.6	296.2	330.9	352.0	358.0
65°	246.5	265.4	299.2	324.1	330.1
67.5°	217.9	235.9	272.1	296.2	302.2
70°	184.6	205.1	243.5	268.4	274.4
72.5°	156.0	177.1	215.6	239.7	248.7
75°	125.1	149.2	187.7	213.3	219.3
77.5°	95.0	122.9	162.0	181.6	181.6
80°	67.8	97.3	133.4	142.5	143.9
82.5°	44.5	73.1	98.7	98.0	98.0
85°	25.6	47.5	58.8	57.3	57.3
87.5°	9.8	19.6	21.1	21.1	20.3
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)