

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: P734123

Luminaire Tested: **24FCZ2-30HE-S-B2750-W2D-CP187-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734123
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: 24FCZ2-30HE-S-B2750-W2D-CP187-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND SMOOTH LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

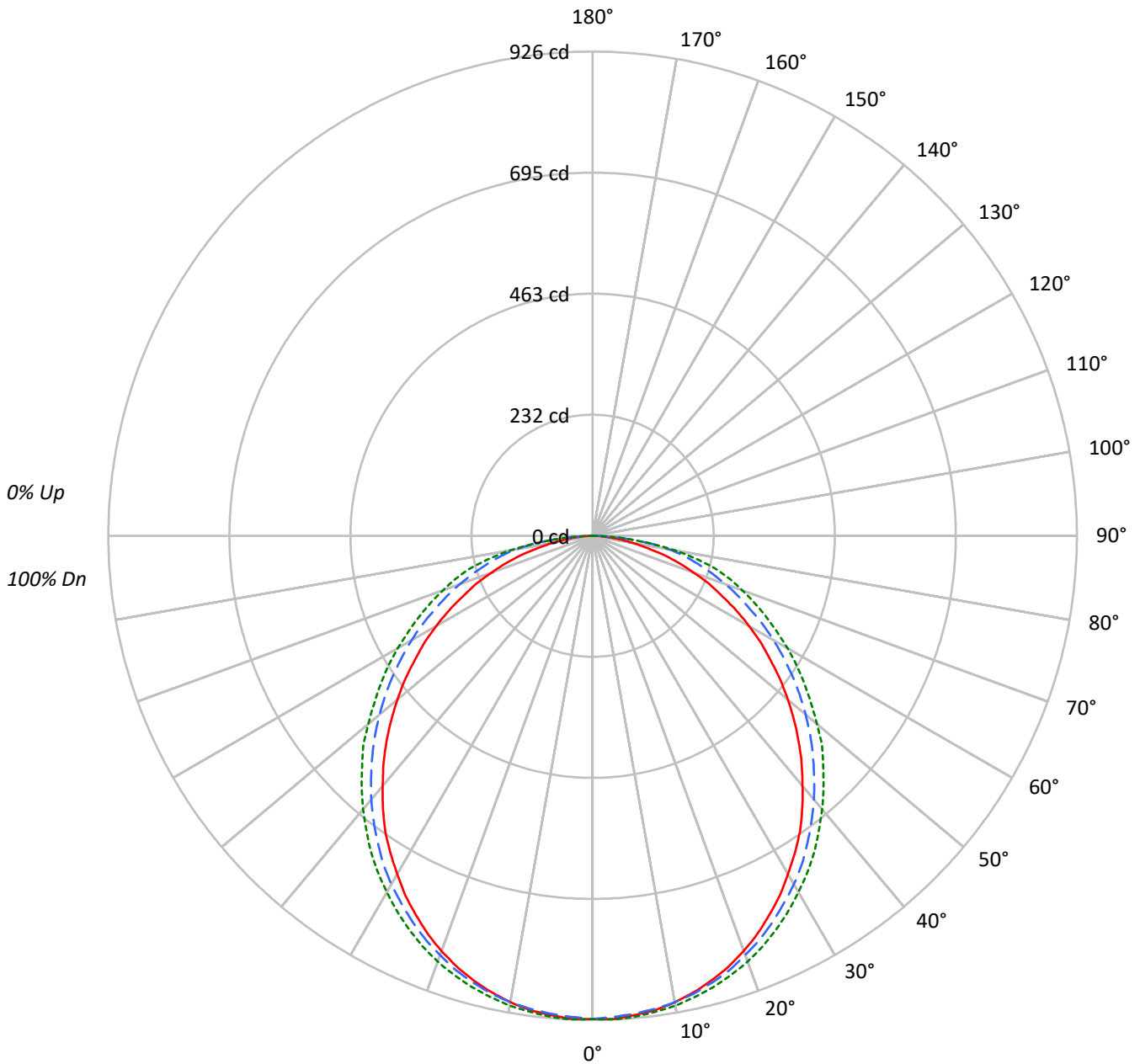
Lumens per Lamp: N/A
Luminaire Lumens: 2631.0 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	1305	1305	1305
5°	1304	1300	1308
10°	1298	1298	1308
15°	1286	1292	1305
20°	1269	1281	1302
25°	1245	1269	1294
30°	1218	1254	1283
35°	1191	1234	1273
40°	1150	1213	1258
45°	1113	1189	1244
50°	1070	1167	1229
55°	1022	1145	1218
60°	974	1127	1215
65°	913	1108	1222
70°	845	1114	1255
75°	757	1135	1326
80°	611	1202	1297
85°	460	1054	1028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	3.3
10°-20°	250.0	9.5
20°-30°	375.8	14.3
30°-40°	447.7	17.0
40°-50°	458.2	17.4
50°-60°	412.5	15.7
60°-70°	324.0	12.3
70°-80°	210.2	8.0
80°-90°	65.0	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°	713.4	27.1
0°-40°	1161.1	44.1
0°-60°	2031.8	77.2
0°-90°	2631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2631.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	924	924	924	924	924	
5°	920	922	918	923	923	87
15°	880	882	884	892	893	248
25°	800	806	815	828	831	368
35°	691	700	716	734	739	431
45°	557	571	596	618	624	430
55°	415	434	466	490	495	372
65°	273	294	332	359	366	272
75°	139	165	208	236	243	147
85°	28	53	65	64	64	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	924.3	924.3	924.3	924.3	924.3
2.5°	925.1	925.1	920.9	925.1	925.9
5°	920.1	921.8	917.6	922.6	923.4
7.5°	915.1	915.1	912.5	917.6	918.5
10°	905.9	906.7	905.9	911.7	912.5
12.5°	894.2	895.8	896.7	902.6	903.4
15°	880.0	882.5	884.2	891.7	893.4
17.5°	864.1	866.6	870.8	879.1	880.8
20°	844.9	848.2	853.2	864.1	866.6
22.5°	824.0	827.4	835.7	845.7	849.9
25°	799.8	806.4	814.8	828.2	830.7
27.5°	775.5	781.4	792.2	806.4	809.8
30°	747.1	756.3	769.7	783.9	787.2
32.5°	719.5	728.7	744.6	759.7	763.8
35°	691.1	699.5	716.2	733.7	738.8
37.5°	658.5	669.4	687.8	705.3	710.4
40°	624.3	637.7	658.5	676.9	682.8
42.5°	591.7	605.8	626.8	646.8	653.5
45°	557.4	570.8	595.9	618.4	623.5
47.5°	522.3	537.4	564.1	586.6	595.0
50°	487.2	503.1	531.5	554.9	559.9
52.5°	452.1	468.8	498.9	524.0	526.5
55°	415.3	433.8	465.5	489.8	494.8
57.5°	381.9	397.8	432.1	457.1	463.0
60°	345.2	362.7	399.4	422.9	430.3
62.5°	310.0	328.4	366.9	390.3	396.9
65°	273.3	294.2	331.8	359.4	366.0
67.5°	241.6	261.6	301.7	328.4	335.1
70°	204.7	227.4	269.9	297.5	304.2
72.5°	173.0	196.3	239.0	265.7	275.8
75°	138.8	165.4	208.1	236.5	243.2
77.5°	105.3	136.2	179.6	201.4	201.4
80°	75.2	107.8	147.9	158.0	159.6
82.5°	49.3	81.1	109.4	108.6	108.6
85°	28.4	52.7	65.1	63.5	63.5
87.5°	10.9	21.7	23.4	23.4	22.6
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)