

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: P734132

Luminaire Tested: **24FCZ2-30HE-S-B2750-W2D-CP375-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734132
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-CP375-3000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND SMOOTH LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

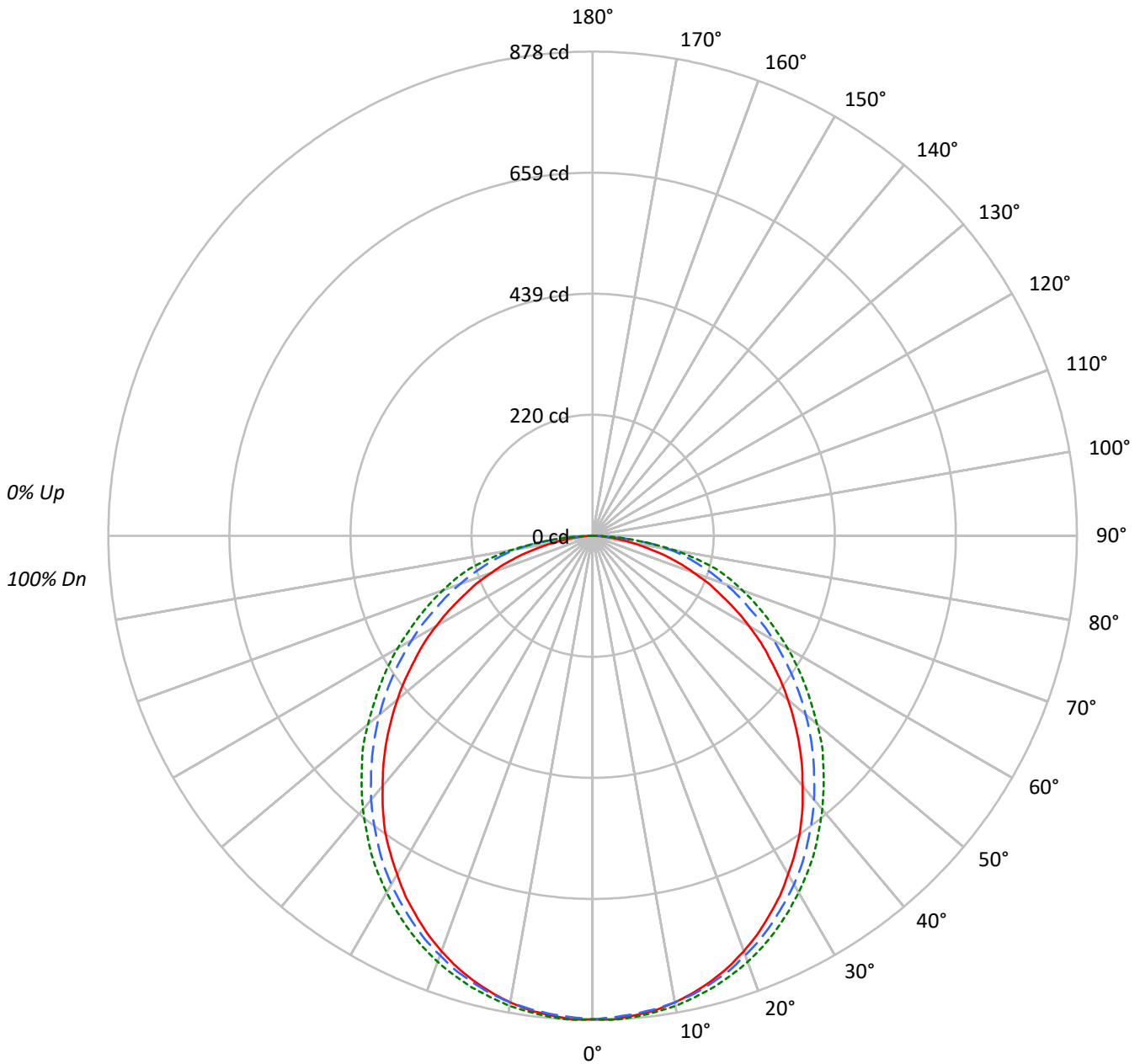
Lumens per Lamp: N/A
Luminaire Lumens: 2496.0 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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°	1238	1238	1238
5°	1237	1233	1241
10°	1232	1232	1241
15°	1220	1226	1238
20°	1204	1216	1235
25°	1181	1204	1227
30°	1155	1190	1217
35°	1130	1171	1208
40°	1091	1151	1193
45°	1055	1128	1181
50°	1015	1107	1166
55°	969	1087	1155
60°	924	1070	1152
65°	866	1051	1159
70°	801	1057	1191
75°	718	1076	1258
80°	580	1140	1231
85°	436	1001	976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	3.3
10°-20°	237.2	9.5
20°-30°	356.6	14.3
30°-40°	424.7	17.0
40°-50°	434.7	17.4
50°-60°	391.3	15.7
60°-70°	307.3	12.3
70°-80°	199.5	8.0
80°-90°	61.7	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°	676.8	27.1
0°-40°	1101.5	44.1
0°-60°	1927.5	77.2
0°-90°	2496.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2496.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	877	877	877	877	877	
5°	873	874	870	875	876	83
15°	835	837	839	846	848	235
25°	759	765	773	786	788	350
35°	656	664	680	696	701	409
45°	529	542	565	587	592	408
55°	394	412	442	465	469	353
65°	259	279	315	341	347	258
75°	132	157	197	224	231	139
85°	27	50	62	60	60	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	876.9	876.9	876.9	876.9	876.9
2.5°	877.7	877.7	873.7	877.7	878.4
5°	872.9	874.5	870.5	875.3	876.0
7.5°	868.1	868.1	865.7	870.5	871.4
10°	859.4	860.2	859.4	865.0	865.7
12.5°	848.3	849.9	850.7	856.3	857.0
15°	834.9	837.3	838.8	846.0	847.6
17.5°	819.8	822.2	826.1	834.0	835.6
20°	801.5	804.7	809.5	819.8	822.2
22.5°	781.8	784.9	792.8	802.3	806.3
25°	758.7	765.0	773.0	785.7	788.1
27.5°	735.7	741.3	751.6	765.0	768.3
30°	708.8	717.5	730.2	743.6	746.8
32.5°	682.6	691.3	706.4	720.7	724.6
35°	655.7	663.6	679.5	696.1	700.9
37.5°	624.7	635.0	652.5	669.1	673.9
40°	592.2	604.9	624.7	642.2	647.7
42.5°	561.3	574.8	594.6	613.6	619.9
45°	528.8	541.5	565.3	586.7	591.5
47.5°	495.5	509.8	535.1	556.5	564.4
50°	462.2	477.3	504.3	526.4	531.2
52.5°	428.9	444.8	473.3	497.1	499.5
55°	394.0	411.5	441.6	464.6	469.4
57.5°	362.3	377.4	409.9	433.7	439.2
60°	327.5	344.1	378.9	401.2	408.3
62.5°	294.1	311.6	348.1	370.2	376.6
65°	259.2	279.1	314.7	340.9	347.2
67.5°	229.2	248.2	286.2	311.6	317.9
70°	194.2	215.7	256.1	282.3	288.6
72.5°	164.1	186.3	226.8	252.1	261.6
75°	131.6	156.9	197.4	224.4	230.7
77.5°	99.9	129.2	170.4	191.0	191.0
80°	71.4	102.3	140.3	149.9	151.4
82.5°	46.8	76.9	103.8	103.1	103.1
85°	26.9	50.0	61.8	60.3	60.3
87.5°	10.3	20.6	22.2	22.2	21.4
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)