

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: P734058

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734058
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-CP375-3500K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RIBBED LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

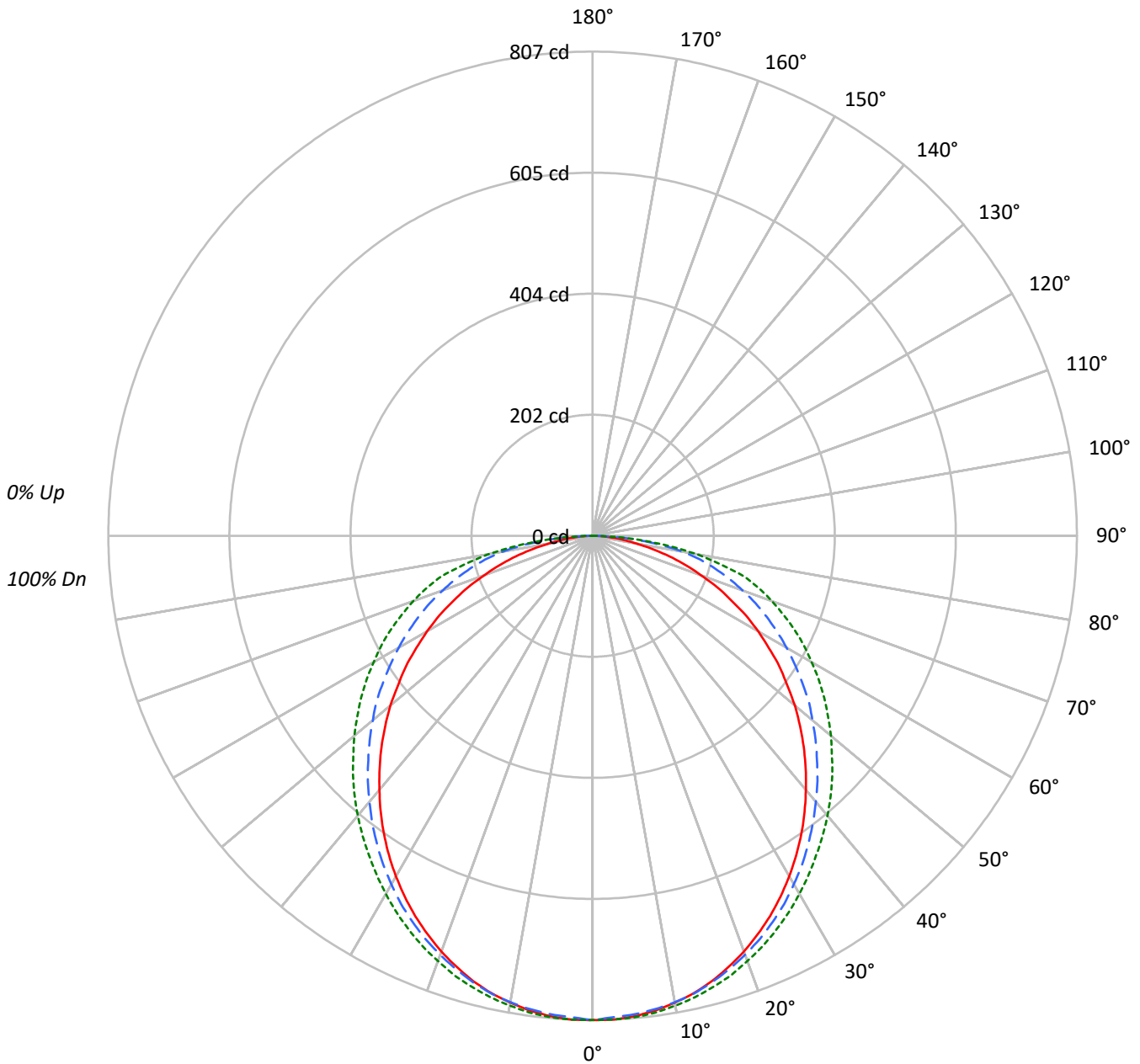
Lumens per Lamp: N/A
Luminaire Lumens: 2404.0 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1139	1139	1139
5°	1139	1134	1141
10°	1132	1131	1139
15°	1123	1125	1137
20°	1108	1116	1133
25°	1089	1106	1128
30°	1068	1093	1123
35°	1045	1080	1120
40°	1018	1066	1122
45°	993	1055	1127
50°	965	1050	1138
55°	936	1048	1159
60°	899	1053	1189
65°	852	1069	1240
70°	791	1096	1311
75°	722	1151	1422
80°	593	1239	1422
85°	453	1143	1221



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	3.2
10°-20°	217.9	9.1
20°-30°	328.0	13.6
30°-40°	393.0	16.3
40°-50°	409.6	17.0
50°-60°	381.0	15.9
60°-70°	313.8	13.1
70°-80°	213.7	8.9
80°-90°	70.6	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°	622.2	25.9
0°-40°	1015.2	42.2
0°-60°	1805.9	75.1
0°-90°	2404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2404.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	807	807	807	807	807	
5°	804	804	801	805	806	76
15°	769	770	770	778	778	217
25°	700	703	710	722	724	322
35°	606	614	627	644	650	379
45°	497	508	529	555	565	384
55°	380	393	426	460	471	339
65°	255	277	320	358	371	253
75°	132	162	211	249	261	140
85°	28	54	71	75	75	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	807.2	807.2	807.2	807.2	807.2
2.5°	807.2	807.2	803.1	807.2	807.2
5°	803.9	803.9	800.7	804.8	805.5
7.5°	798.3	799.1	796.0	800.7	801.6
10°	790.2	791.1	789.5	794.3	795.1
12.5°	780.7	781.4	781.4	787.1	787.9
15°	768.6	769.5	770.2	777.5	778.3
17.5°	753.4	755.8	757.4	766.3	767.8
20°	737.4	739.8	743.0	752.5	754.2
22.5°	718.9	722.1	727.7	738.1	740.5
25°	699.6	702.8	710.1	722.1	724.5
27.5°	678.0	682.8	691.6	704.5	707.7
30°	655.5	660.3	670.7	684.4	689.2
32.5°	631.5	637.8	649.8	665.1	670.0
35°	606.5	613.8	626.6	643.5	649.8
37.5°	580.1	588.1	603.3	621.8	629.8
40°	552.8	562.4	578.5	600.1	608.9
42.5°	525.5	534.4	554.4	577.7	587.3
45°	497.4	507.9	528.8	555.2	564.8
47.5°	468.5	479.0	503.8	532.0	540.8
50°	439.7	450.1	478.2	507.9	518.3
52.5°	408.4	422.0	454.1	483.8	494.2
55°	380.3	393.1	426.1	459.7	470.9
57.5°	348.2	363.4	399.6	434.9	446.9
60°	318.5	334.6	373.1	409.1	421.2
62.5°	288.1	305.7	346.6	383.5	397.2
65°	255.1	276.8	320.1	357.8	371.4
67.5°	225.4	247.9	293.7	332.2	344.2
70°	191.8	219.0	265.5	304.1	317.8
72.5°	162.8	190.1	239.0	276.8	290.4
75°	132.4	162.1	211.0	248.7	260.7
77.5°	101.9	134.8	183.7	212.6	216.6
80°	73.0	107.5	152.4	169.3	174.9
82.5°	51.3	82.7	112.4	123.6	126.8
85°	28.0	54.5	70.6	75.4	75.4
87.5°	12.0	23.3	28.0	28.9	29.7
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)