

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: P734133

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734133
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-CP375-3500K
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

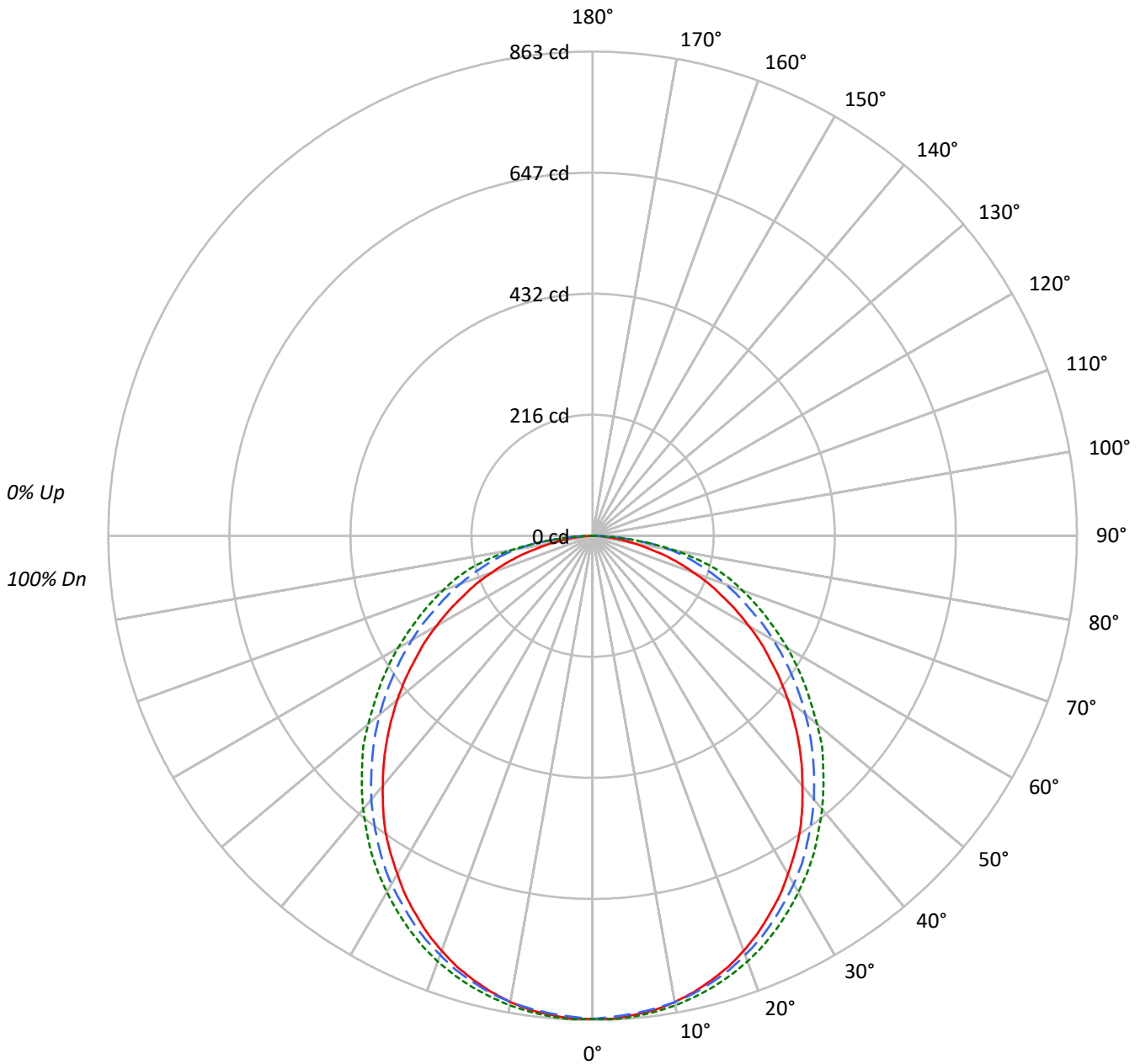
Lumens per Lamp: N/A
Luminaire Lumens: 2451.0 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1215	1215	1215
5°	1214	1211	1219
10°	1209	1209	1218
15°	1198	1204	1216
20°	1182	1194	1212
25°	1160	1182	1205
30°	1134	1168	1195
35°	1109	1150	1186
40°	1072	1130	1172
45°	1036	1108	1159
50°	997	1087	1145
55°	952	1067	1134
60°	907	1050	1132
65°	850	1032	1139
70°	787	1038	1169
75°	705	1057	1235
80°	570	1120	1209
85°	429	983	959



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	3.3
10°-20°	232.9	9.5
20°-30°	350.1	14.3
30°-40°	417.1	17.0
40°-50°	426.8	17.4
50°-60°	384.3	15.7
60°-70°	301.8	12.3
70°-80°	195.9	8.0
80°-90°	60.6	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°	664.6	27.1
0°-40°	1081.6	44.1
0°-60°	1892.8	77.2
0°-90°	2451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2451.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	857	859	855	860	860	81
15°	820	822	824	831	832	231
25°	745	751	759	772	774	343
35°	644	652	667	684	688	402
45°	519	532	555	576	581	400
55°	387	404	434	456	461	347
65°	255	274	309	335	341	253
75°	129	154	194	220	226	137
85°	26	49	61	59	59	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	861.1	861.1	861.1	861.1	861.1
2.5°	861.8	861.8	857.9	861.8	862.6
5°	857.2	858.7	854.8	859.5	860.2
7.5°	852.5	852.5	850.1	854.8	855.7
10°	843.9	844.7	843.9	849.4	850.1
12.5°	833.0	834.5	835.4	840.8	841.6
15°	819.8	822.2	823.7	830.7	832.3
17.5°	805.0	807.3	811.2	819.0	820.6
20°	787.1	790.2	794.9	805.0	807.3
22.5°	767.7	770.8	778.5	787.8	791.8
25°	745.1	751.3	759.0	771.5	773.9
27.5°	722.5	727.9	738.0	751.3	754.4
30°	696.0	704.5	717.0	730.2	733.3
32.5°	670.3	678.8	693.7	707.7	711.6
35°	643.8	651.6	667.2	683.5	688.2
37.5°	613.5	623.6	640.8	657.1	661.8
40°	581.6	594.0	613.5	630.6	636.1
42.5°	551.2	564.4	583.9	602.6	608.8
45°	519.3	531.8	555.1	576.1	580.8
47.5°	486.5	500.6	525.5	546.5	554.3
50°	453.9	468.7	495.2	516.9	521.6
52.5°	421.2	436.7	464.8	488.1	490.5
55°	386.9	404.1	433.6	456.2	460.9
57.5°	355.8	370.6	402.5	425.9	431.3
60°	321.5	337.9	372.1	394.0	400.9
62.5°	288.8	306.0	341.8	363.6	369.8
65°	254.6	274.1	309.1	334.8	341.0
67.5°	225.0	243.7	281.0	306.0	312.2
70°	190.7	211.8	251.5	277.2	283.4
72.5°	161.1	182.9	222.7	247.5	256.9
75°	129.3	154.1	193.9	220.3	226.5
77.5°	98.1	126.9	167.3	187.6	187.6
80°	70.1	100.5	137.8	147.2	148.7
82.5°	46.0	75.5	102.0	101.2	101.2
85°	26.5	49.1	60.7	59.2	59.2
87.5°	10.1	20.3	21.8	21.8	21.0
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)