

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: P734055

Luminaire Tested: **24FCZ2-30HE-B2750-W2D-CP250-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734055
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-CP250-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RIBBED LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

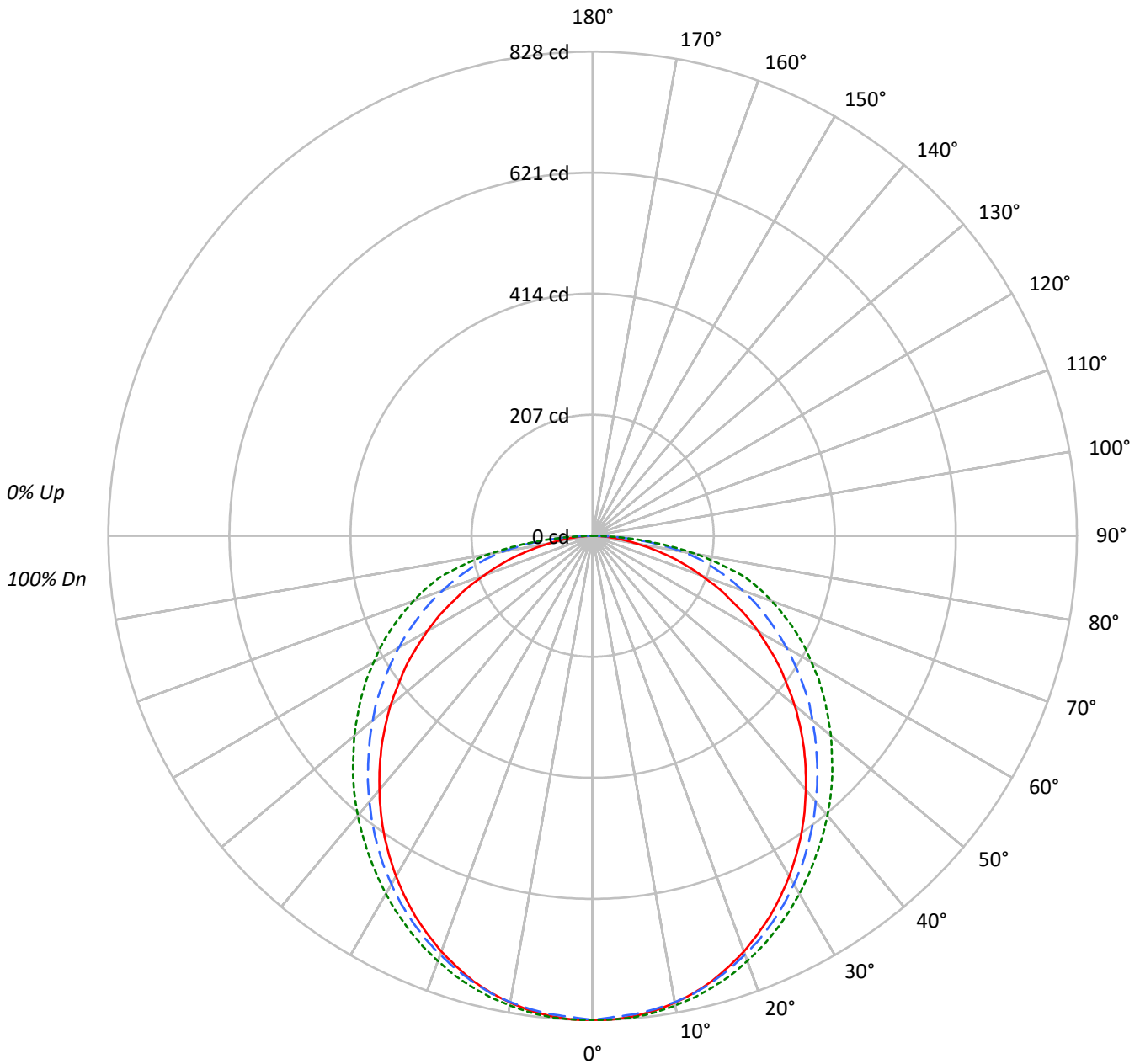
Lumens per Lamp: N/A
Luminaire Lumens: 2466.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P734055

CATALOG NUMBER: 24FCZ2-30HE-B2750-W2D-CP250-5000K

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°	1169	1169	1169
5°	1168	1164	1171
10°	1162	1161	1169
15°	1152	1154	1166
20°	1136	1145	1162
25°	1118	1134	1157
30°	1096	1121	1152
35°	1072	1107	1149
40°	1045	1093	1151
45°	1019	1083	1156
50°	990	1077	1167
55°	960	1076	1189
60°	922	1080	1220
65°	874	1096	1272
70°	812	1124	1345
75°	741	1180	1458
80°	609	1270	1458
85°	466	1172	1253



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	3.2
10°-20°	223.6	9.1
20°-30°	336.4	13.6
30°-40°	403.2	16.3
40°-50°	420.1	17.0
50°-60°	390.9	15.9
60°-70°	321.9	13.1
70°-80°	219.2	8.9
80°-90°	72.4	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°	638.3	25.9
0°-40°	1041.4	42.2
0°-60°	1852.4	75.1
0°-90°	2466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2466.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	828	828	828	828	828	
5°	825	825	821	826	826	78
15°	788	789	790	798	798	222
25°	718	721	728	741	743	330
35°	622	630	643	660	667	389
45°	510	521	542	570	579	394
55°	390	403	437	472	483	348
65°	262	284	328	367	381	260
75°	136	166	216	255	267	143
85°	29	56	72	77	77	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	828.0	828.0	828.0	828.0	828.0
2.5°	828.0	828.0	823.8	828.0	828.0
5°	824.6	824.6	821.3	825.5	826.3
7.5°	818.9	819.8	816.5	821.3	822.2
10°	810.6	811.5	809.8	814.8	815.6
12.5°	800.8	801.6	801.6	807.4	808.2
15°	788.4	789.3	790.1	797.5	798.3
17.5°	772.8	775.3	776.9	786.0	787.6
20°	756.4	758.8	762.1	771.9	773.6
22.5°	737.4	740.7	746.5	757.2	759.6
25°	717.7	721.0	728.4	740.7	743.2
27.5°	695.5	700.4	709.4	722.6	725.9
30°	672.4	677.3	688.0	702.0	707.0
32.5°	647.7	654.3	666.6	682.3	687.2
35°	622.2	629.6	642.8	660.1	666.6
37.5°	595.1	603.3	618.9	637.8	646.1
40°	567.1	576.9	593.4	615.6	624.6
42.5°	539.0	548.2	568.7	592.6	602.4
45°	510.3	521.0	542.4	569.5	579.4
47.5°	480.6	491.3	516.8	545.7	554.7
50°	451.0	461.8	490.5	521.0	531.7
52.5°	418.9	432.9	465.8	496.3	507.0
55°	390.1	403.2	437.1	471.6	483.1
57.5°	357.2	372.8	409.9	446.1	458.4
60°	326.8	343.2	382.7	419.7	432.1
62.5°	295.5	313.6	355.5	393.4	407.4
65°	261.7	283.9	328.3	367.0	381.0
67.5°	231.2	254.3	301.3	340.7	353.0
70°	196.7	224.7	272.4	312.0	326.0
72.5°	167.0	195.0	245.2	283.9	297.9
75°	135.8	166.3	216.4	255.1	267.4
77.5°	104.6	138.3	188.5	218.1	222.2
80°	74.9	110.3	156.3	173.7	179.4
82.5°	52.7	84.8	115.3	126.8	130.0
85°	28.8	55.9	72.4	77.4	77.4
87.5°	12.3	23.9	28.8	29.7	30.5
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)