

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: P734047

Luminaire Tested: **24FCZ2-30HE-B2750-W2D-CP187-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734047
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-CP187-3000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RIBBED LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

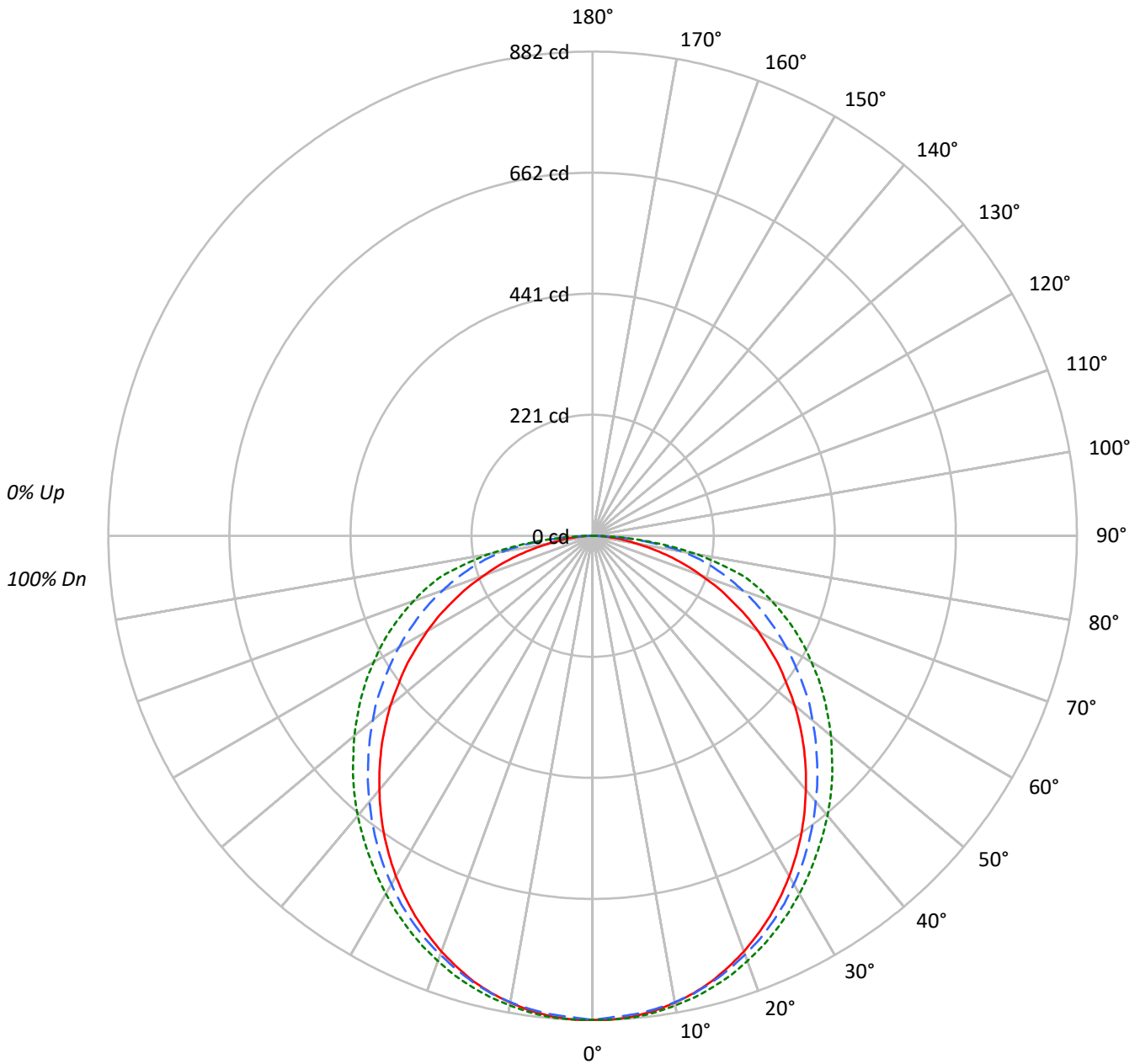
Lumens per Lamp: N/A
Luminaire Lumens: 2627.0 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1245	1245	1245
5°	1245	1240	1247
10°	1238	1236	1245
15°	1227	1230	1243
20°	1210	1219	1238
25°	1191	1208	1233
30°	1167	1194	1227
35°	1142	1180	1223
40°	1113	1165	1226
45°	1085	1153	1232
50°	1055	1147	1244
55°	1023	1146	1266
60°	983	1151	1299
65°	931	1168	1356
70°	864	1198	1433
75°	789	1257	1554
80°	649	1353	1554
85°	496	1249	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.4	3.2
10°-20°	238.1	9.1
20°-30°	358.4	13.6
30°-40°	429.5	16.3
40°-50°	447.6	17.0
50°-60°	416.4	15.9
60°-70°	342.9	13.1
70°-80°	233.6	8.9
80°-90°	77.1	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°	679.9	25.9
0°-40°	1109.4	42.2
0°-60°	1973.4	75.1
0°-90°	2627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2627.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	878	878	875	879	880	83
15°	840	841	842	850	850	237
25°	764	768	776	789	792	352
35°	663	671	685	703	710	414
45°	544	555	578	607	617	419
55°	416	430	466	502	515	370
65°	279	302	350	391	406	277
75°	145	177	231	272	285	153
85°	31	60	77	82	82	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	882.0	882.0	882.0	882.0	882.0
2.5°	882.0	882.0	877.6	882.0	882.0
5°	878.5	878.5	875.0	879.4	880.3
7.5°	872.3	873.3	869.8	875.0	875.9
10°	863.6	864.5	862.7	868.0	868.8
12.5°	853.1	853.9	853.9	860.1	861.0
15°	839.9	840.8	841.7	849.6	850.5
17.5°	823.3	825.9	827.6	837.3	839.0
20°	805.8	808.4	811.9	822.3	824.1
22.5°	785.6	789.1	795.2	806.6	809.2
25°	764.5	768.0	776.0	789.1	791.7
27.5°	740.9	746.2	755.8	769.8	773.3
30°	716.4	721.5	732.9	747.8	753.1
32.5°	690.0	697.0	710.1	726.8	732.1
35°	662.8	670.7	684.8	703.1	710.1
37.5°	633.9	642.7	659.3	679.5	688.2
40°	604.1	614.6	632.1	655.8	665.4
42.5°	574.2	583.9	605.8	631.3	641.7
45°	543.6	555.0	577.8	606.7	617.2
47.5°	512.0	523.4	550.6	581.3	590.9
50°	480.5	491.9	522.5	555.0	566.4
52.5°	446.3	461.2	496.2	528.7	540.1
55°	415.6	429.6	465.6	502.4	514.6
57.5°	380.5	397.1	436.6	475.2	488.3
60°	348.1	365.6	407.7	447.1	460.3
62.5°	314.8	334.0	378.7	419.1	434.0
65°	278.8	302.4	349.8	391.0	405.9
67.5°	246.3	270.9	320.9	363.0	376.1
70°	209.5	239.3	290.2	332.3	347.2
72.5°	178.0	207.8	261.2	302.4	317.3
75°	144.7	177.1	230.6	271.8	284.9
77.5°	111.4	147.3	200.8	232.4	236.7
80°	79.8	117.5	166.5	185.0	191.2
82.5°	56.1	90.3	122.8	135.0	138.5
85°	30.6	59.6	77.1	82.4	82.4
87.5°	13.1	25.5	30.6	31.6	32.4
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)