

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: P733924

Luminaire Tested: **24FCZ2-30-B2750-W2D-CP187-4000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733924
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: 24FCZ2-30-B2750-W2D-CP187-4000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND RIBBED LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

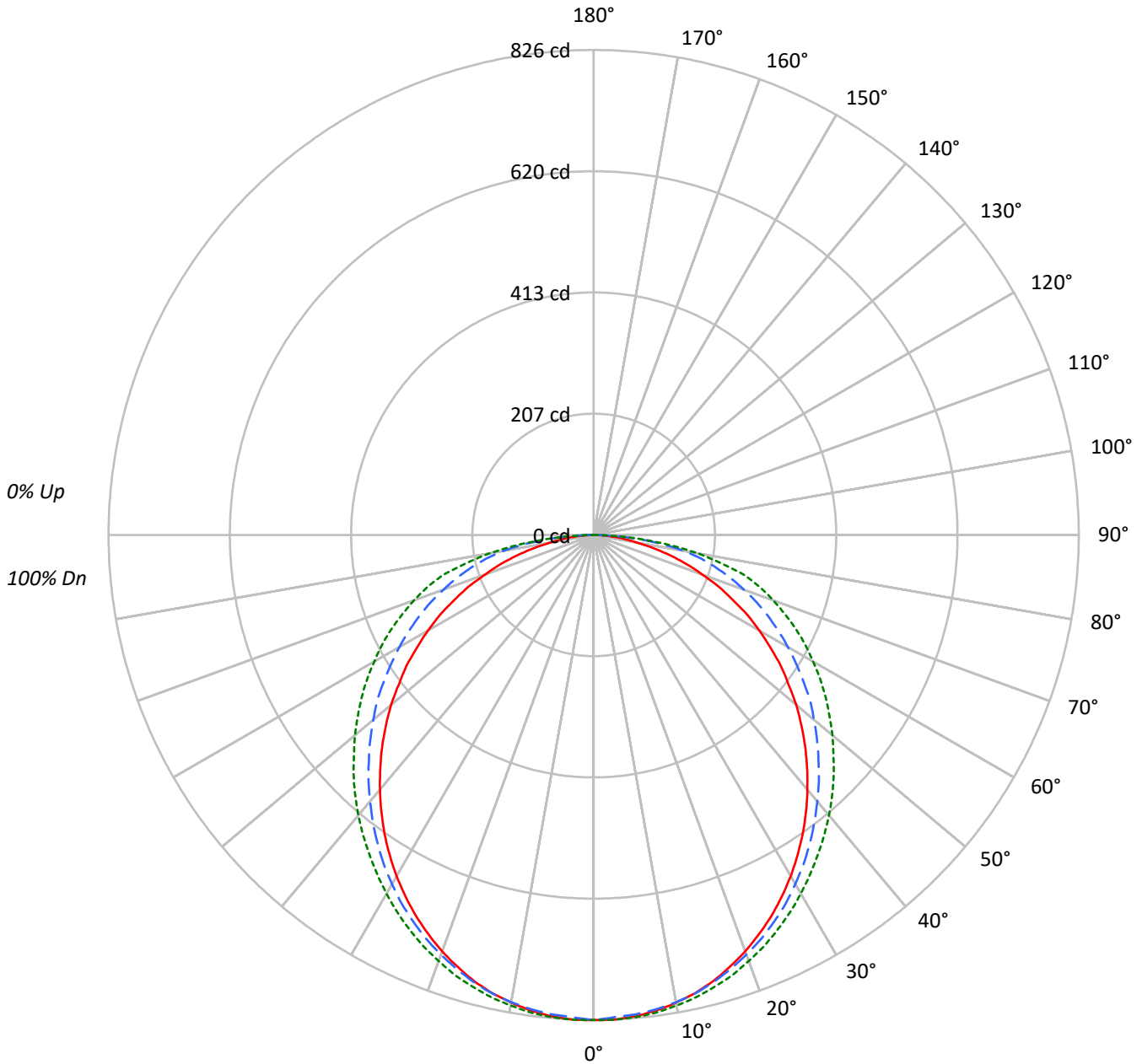
Lumens per Lamp: N/A
Luminaire Lumens: 2460.9 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
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: P733924

CATALOG NUMBER: 24FCZ2-30-B2750-W2D-CP187-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P733924

CATALOG NUMBER: 24FCZ2-30-B2750-W2D-CP187-4000K

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°	1166	1166	1166
5°	1166	1161	1168
10°	1159	1158	1166
15°	1150	1152	1164
20°	1134	1142	1160
25°	1115	1132	1155
30°	1094	1119	1150
35°	1070	1105	1146
40°	1043	1091	1149
45°	1016	1080	1154
50°	988	1075	1165
55°	958	1073	1186
60°	920	1078	1217
65°	872	1094	1270
70°	810	1122	1342
75°	739	1178	1455
80°	607	1268	1456
85°	465	1171	1250



TEST NUMBER: P733924

CATALOG NUMBER: 24FCZ2-30-B2750-W2D-CP187-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	3.2
10°-20°	223.1	9.1
20°-30°	335.7	13.6
30°-40°	402.3	16.3
40°-50°	419.3	17.0
50°-60°	390.1	15.9
60°-70°	321.3	13.1
70°-80°	218.8	8.9
80°-90°	72.2	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°	637.0	25.9
0°-40°	1039.3	42.2
0°-60°	1848.7	75.1
0°-90°	2460.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2460.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	826	826	826	826	826	
5°	823	823	820	824	825	78
15°	787	788	788	796	797	222
25°	716	720	727	739	742	330
35°	621	628	642	659	665	388
45°	509	520	541	568	578	393
55°	389	402	436	471	482	347
65°	261	283	328	366	380	259
75°	136	166	216	255	267	143
85°	29	56	72	77	77	36
90°	0	0	0	0	0	



TEST NUMBER: P733924

CATALOG NUMBER: 24FCZ2-30-B2750-W2D-CP187-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	826.3	826.3	826.3	826.3	826.3
2.5°	826.3	826.3	822.2	826.3	826.3
5°	822.9	822.9	819.7	823.8	824.6
7.5°	817.2	818.1	814.8	819.7	820.6
10°	809.0	809.9	808.2	813.1	813.9
12.5°	799.2	800.0	800.0	805.7	806.6
15°	786.8	787.7	788.5	795.9	796.7
17.5°	771.3	773.7	775.3	784.4	786.0
20°	754.8	757.3	760.6	770.4	772.1
22.5°	735.9	739.2	744.9	755.6	758.1
25°	716.2	719.5	726.9	739.2	741.7
27.5°	694.1	699.0	708.0	721.2	724.4
30°	671.1	675.9	686.6	700.6	705.5
32.5°	646.4	653.0	665.2	680.9	685.8
35°	620.9	628.3	641.5	658.7	665.2
37.5°	593.9	602.1	617.6	636.5	644.8
40°	566.0	575.8	592.2	614.4	623.4
42.5°	537.9	547.0	567.5	591.4	601.2
45°	509.2	519.9	541.3	568.3	578.2
47.5°	479.6	490.3	515.8	544.6	553.6
50°	450.1	460.8	489.5	519.9	530.6
52.5°	418.1	432.0	464.9	495.3	506.0
55°	389.3	402.4	436.2	470.6	482.1
57.5°	356.5	372.0	409.0	445.2	457.5
60°	326.1	342.5	381.9	418.8	431.2
62.5°	294.9	312.9	354.8	392.6	406.6
65°	261.1	283.3	327.7	366.3	380.2
67.5°	230.8	253.8	300.6	340.0	352.3
70°	196.3	224.2	271.8	311.3	325.3
72.5°	166.7	194.6	244.7	283.3	297.3
75°	135.5	165.9	216.0	254.6	266.9
77.5°	104.3	138.0	188.1	217.7	221.7
80°	74.7	110.1	156.0	173.3	179.1
82.5°	52.6	84.6	115.0	126.5	129.8
85°	28.7	55.8	72.3	77.2	77.2
87.5°	12.3	23.9	28.7	29.6	30.4
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)