

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: P734000

Luminaire Tested: **24FCZ2-30-S-B2750-W2D-CP187-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734000
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: 24FCZ2-30-S-B2750-W2D-CP187-5000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND SMOOTH LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

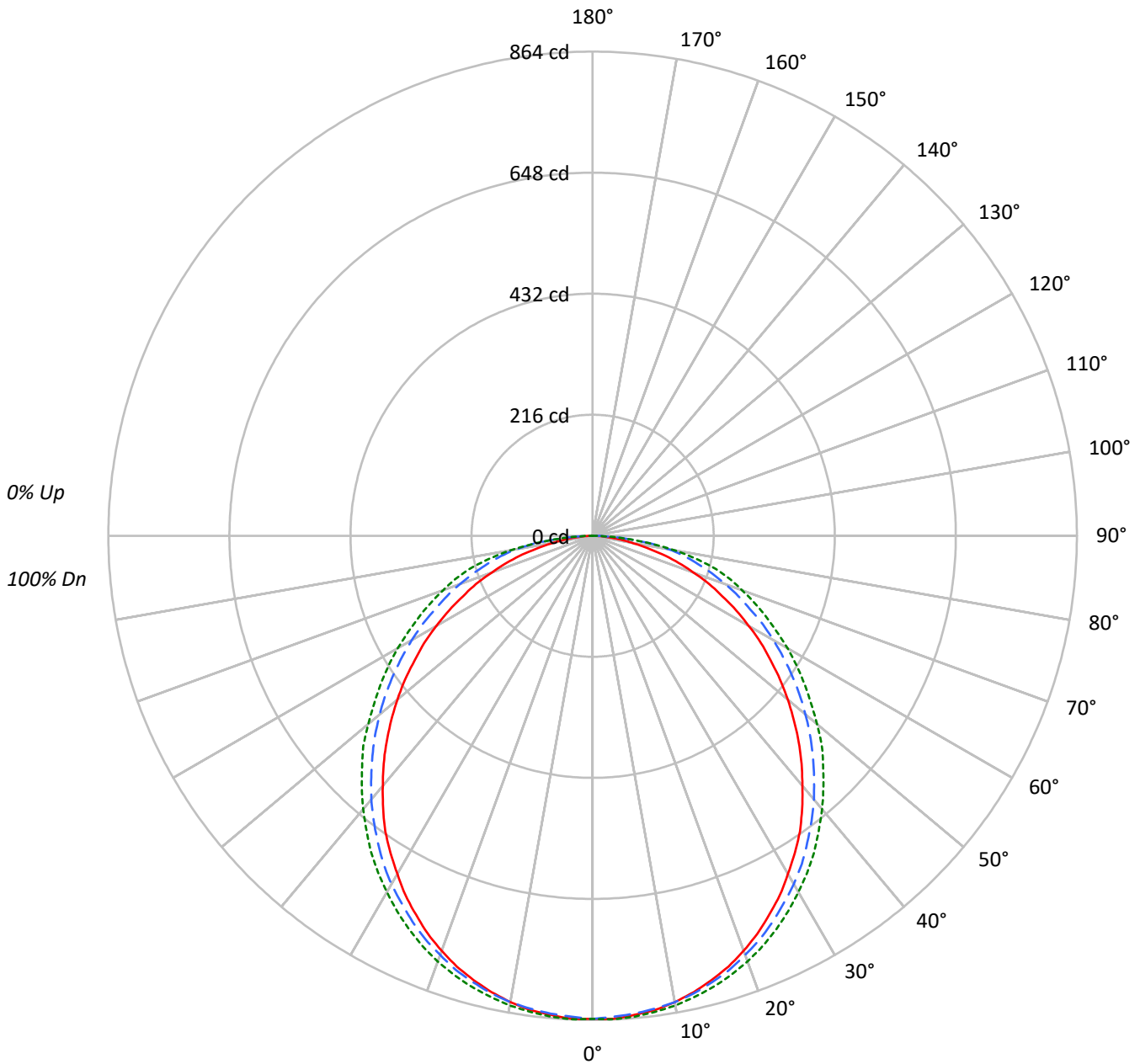
Lumens per Lamp: N/A
Luminaire Lumens: 2454.0 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P734000

CATALOG NUMBER: 24FCZ2-30-S-B2750-W2D-CP187-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P734000

CATALOG NUMBER: 24FCZ2-30-S-B2750-W2D-CP187-5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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°	1217	1217	1217
5°	1216	1213	1220
10°	1211	1211	1220
15°	1199	1205	1218
20°	1184	1195	1214
25°	1162	1184	1207
30°	1136	1170	1197
35°	1111	1151	1187
40°	1073	1132	1173
45°	1038	1109	1161
50°	998	1089	1147
55°	953	1068	1136
60°	909	1052	1133
65°	851	1034	1140
70°	788	1039	1171
75°	706	1058	1237
80°	571	1122	1210
85°	429	985	960



TEST NUMBER: P734000

CATALOG NUMBER: 24FCZ2-30-S-B2750-W2D-CP187-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	3.3
10°-20°	233.2	9.5
20°-30°	350.6	14.3
30°-40°	417.6	17.0
40°-50°	427.4	17.4
50°-60°	384.8	15.7
60°-70°	302.2	12.3
70°-80°	196.1	8.0
80°-90°	60.7	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°	665.4	27.1
0°-40°	1083.0	44.1
0°-60°	1895.1	77.2
0°-90°	2454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	862	862	862	862	862	
5°	858	860	856	860	861	82
15°	821	823	825	832	833	231
25°	746	752	760	772	775	344
35°	645	652	668	684	689	402
45°	520	532	556	577	582	401
55°	387	405	434	457	462	347
65°	255	274	310	335	341	254
75°	129	154	194	221	227	137
85°	26	49	61	59	59	32
90°	0	0	0	0	0	



TEST NUMBER: P734000

CATALOG NUMBER: 24FCZ2-30-S-B2750-W2D-CP187-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	862.1	862.1	862.1	862.1	862.1
2.5°	862.9	862.9	859.0	862.9	863.6
5°	858.2	859.8	855.9	860.5	861.3
7.5°	853.5	853.5	851.2	855.9	856.7
10°	845.0	845.7	845.0	850.4	851.2
12.5°	834.1	835.6	836.4	841.9	842.6
15°	820.8	823.2	824.7	831.7	833.3
17.5°	806.0	808.3	812.2	820.0	821.6
20°	788.0	791.1	795.8	806.0	808.3
22.5°	768.6	771.7	779.5	788.8	792.7
25°	746.0	752.2	760.0	772.5	774.8
27.5°	723.3	728.8	738.9	752.2	755.4
30°	696.9	705.4	717.9	731.1	734.2
32.5°	671.1	679.7	694.5	708.6	712.4
35°	644.6	652.4	668.0	684.4	689.1
37.5°	614.2	624.4	641.5	657.9	662.6
40°	582.3	594.8	614.2	631.4	636.8
42.5°	551.8	565.1	584.6	603.3	609.5
45°	519.9	532.4	555.8	576.8	581.5
47.5°	487.1	501.2	526.1	547.2	554.9
50°	454.5	469.3	495.8	517.6	522.3
52.5°	421.7	437.3	465.4	488.7	491.1
55°	387.4	404.6	434.2	456.8	461.5
57.5°	356.2	371.1	403.0	426.4	431.8
60°	321.9	338.3	372.6	394.4	401.4
62.5°	289.2	306.4	342.2	364.0	370.2
65°	254.9	274.4	309.5	335.2	341.4
67.5°	225.3	244.0	281.4	306.4	312.6
70°	190.9	212.1	251.8	277.5	283.7
72.5°	161.3	183.1	223.0	247.8	257.2
75°	129.4	154.3	194.1	220.6	226.8
77.5°	98.2	127.1	167.5	187.8	187.8
80°	70.2	100.6	138.0	147.4	148.9
82.5°	46.0	75.6	102.1	101.3	101.3
85°	26.5	49.1	60.8	59.3	59.3
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)