

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: P734122

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734122
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-CP187-3000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND SMOOTH LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

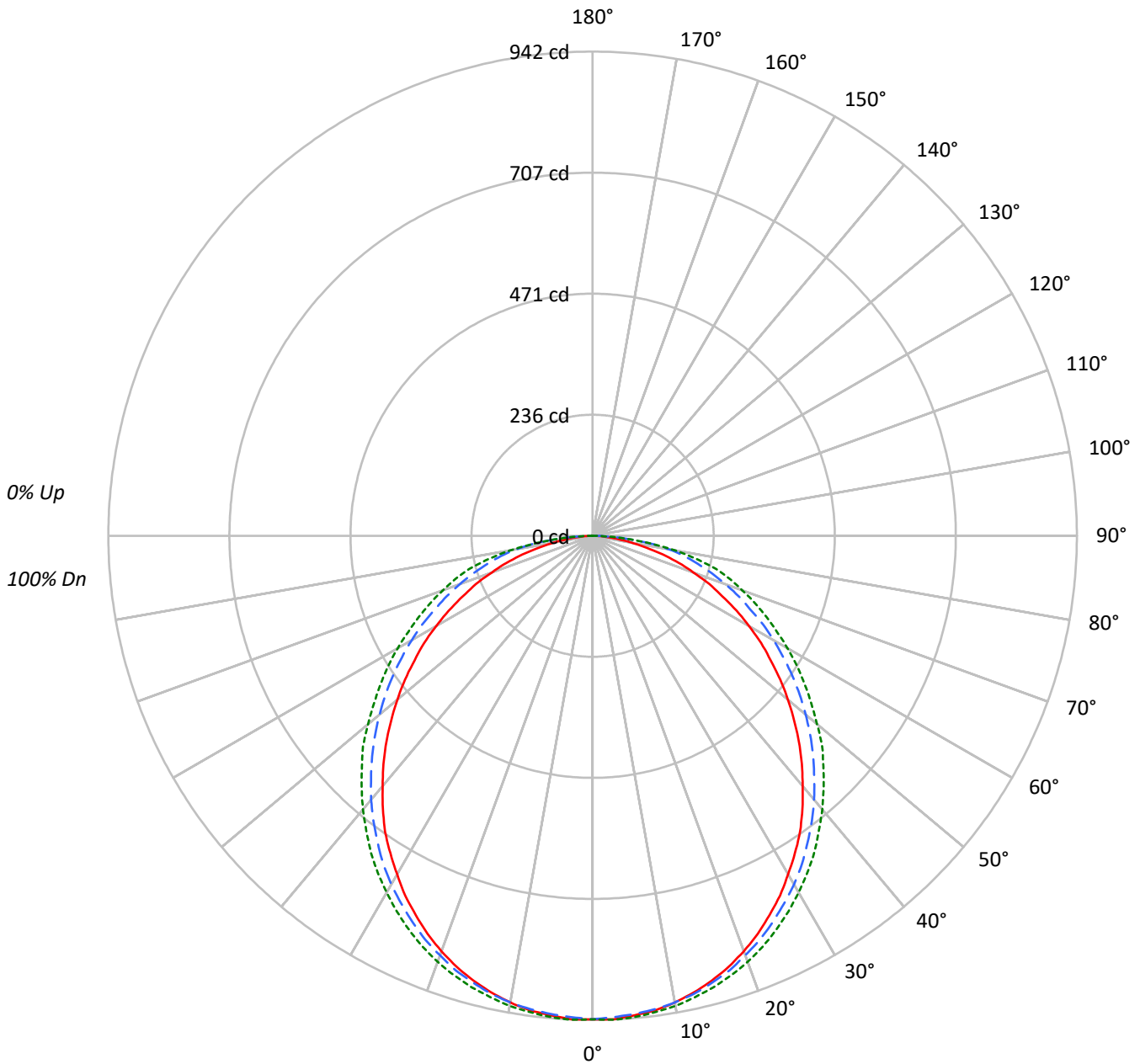
Lumens per Lamp: N/A
Luminaire Lumens: 2678.0 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P734122

CATALOG NUMBER: 24FCZ2-30HE-S-B2750-W2D-CP187-3000K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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				100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83				83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69				69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58				58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49				49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42				42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37				37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33				33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29				29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26				26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1328	1328	1328
5°	1327	1323	1332
10°	1321	1321	1331
15°	1309	1315	1329
20°	1292	1304	1325
25°	1268	1291	1317
30°	1239	1277	1306
35°	1212	1256	1296
40°	1171	1235	1280
45°	1132	1211	1267
50°	1089	1188	1251
55°	1040	1166	1239
60°	992	1148	1236
65°	929	1128	1244
70°	860	1134	1278
75°	770	1155	1350
80°	623	1224	1320
85°	468	1074	1048



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	3.3
10°-20°	254.5	9.5
20°-30°	382.6	14.3
30°-40°	455.7	17.0
40°-50°	466.4	17.4
50°-60°	419.9	15.7
60°-70°	329.8	12.3
70°-80°	214.0	8.0
80°-90°	66.2	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°	726.1	27.1
0°-40°	1181.8	44.1
0°-60°	2068.1	77.2
0°-90°	2678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2678.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	941	941	941	941	941	
5°	936	938	934	939	940	89
15°	896	898	900	908	909	253
25°	814	821	829	843	846	375
35°	704	712	729	747	752	439
45°	567	581	606	630	635	437
55°	423	442	474	498	504	379
65°	278	300	338	366	372	277
75°	141	168	212	241	248	149
85°	29	54	66	65	65	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	940.8	940.8	940.8	940.8	940.8
2.5°	941.7	941.7	937.4	941.7	942.5
5°	936.5	938.3	934.0	939.1	939.9
7.5°	931.4	931.4	928.9	934.0	934.9
10°	922.1	922.9	922.1	928.0	928.9
12.5°	910.2	911.8	912.8	918.7	919.5
15°	895.7	898.3	899.9	907.6	909.4
17.5°	879.6	882.1	886.3	894.8	896.6
20°	860.0	863.4	868.5	879.6	882.1
22.5°	838.8	842.1	850.7	860.8	865.1
25°	814.1	820.8	829.3	843.0	845.5
27.5°	789.4	795.3	806.4	820.8	824.3
30°	760.5	769.8	783.4	797.9	801.3
32.5°	732.4	741.7	757.9	773.3	777.5
35°	703.5	712.0	729.0	746.8	752.0
37.5°	670.3	681.3	700.1	717.9	723.1
40°	635.4	649.1	670.3	689.0	695.0
42.5°	602.2	616.7	638.0	658.4	665.1
45°	567.4	581.0	606.5	629.5	634.6
47.5°	531.6	547.0	574.1	597.1	605.6
50°	495.9	512.1	541.0	564.8	569.9
52.5°	460.2	477.2	507.8	533.3	535.9
55°	422.8	441.5	473.8	498.5	503.6
57.5°	388.7	404.9	439.8	465.3	471.2
60°	351.3	369.2	406.6	430.5	438.0
62.5°	315.6	334.3	373.5	397.2	404.0
65°	278.2	299.5	337.7	365.8	372.5
67.5°	245.9	266.3	307.1	334.3	341.1
70°	208.4	231.4	274.8	302.9	309.6
72.5°	176.1	199.9	243.3	270.5	280.7
75°	141.2	168.4	211.8	240.7	247.5
77.5°	107.2	138.7	182.8	205.0	205.0
80°	76.6	109.8	150.6	160.8	162.4
82.5°	50.2	82.5	111.4	110.6	110.6
85°	28.9	53.6	66.3	64.7	64.7
87.5°	11.1	22.1	23.8	23.8	23.0
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)