

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: P733997

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P733997
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-CP187-3000K
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

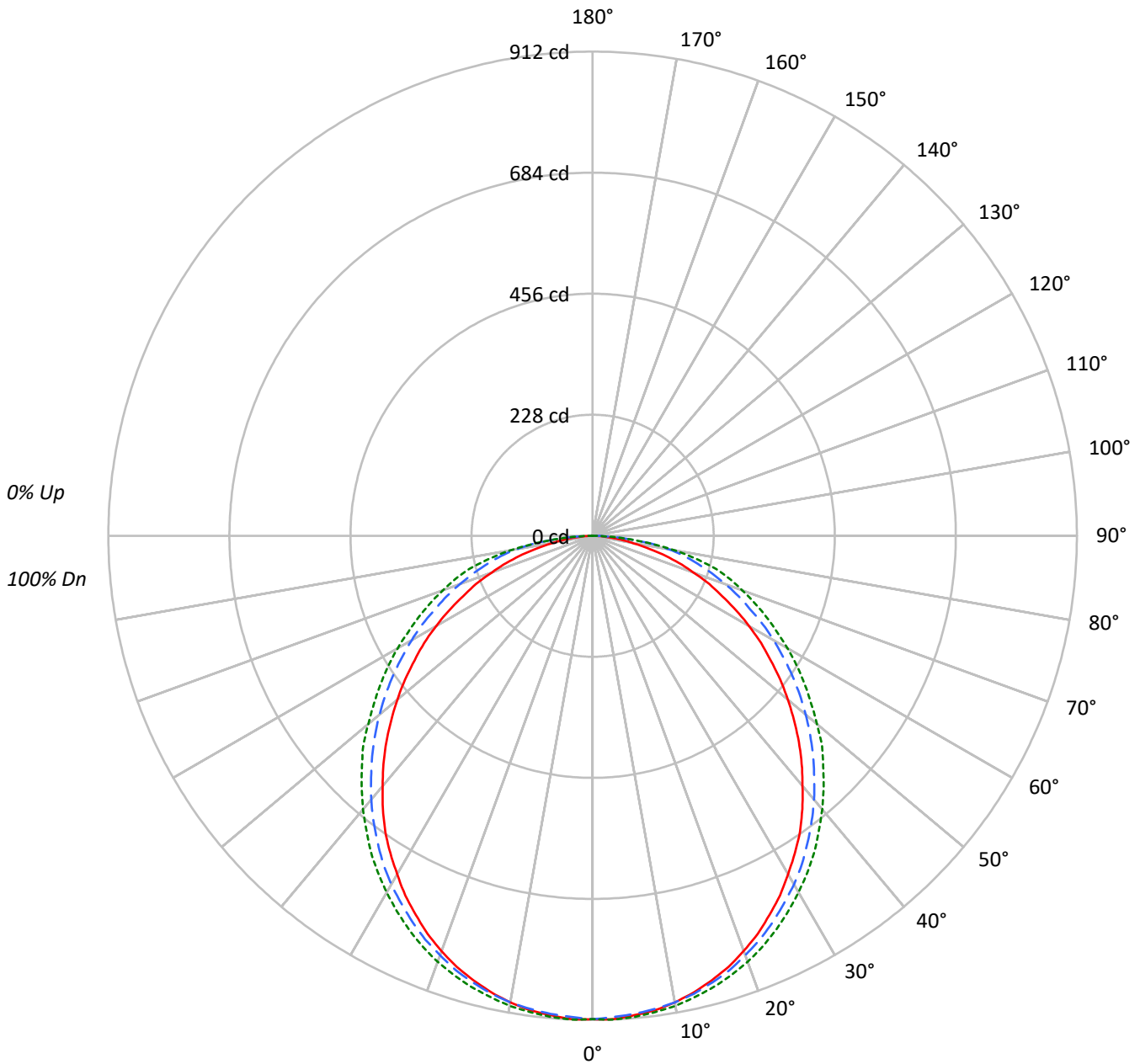
Lumens per Lamp: N/A
Luminaire Lumens: 2592.0 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

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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	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°	1285	1285	1285
5°	1284	1281	1289
10°	1279	1279	1288
15°	1267	1273	1286
20°	1250	1263	1282
25°	1227	1250	1274
30°	1199	1236	1264
35°	1173	1216	1254
40°	1133	1195	1239
45°	1096	1172	1226
50°	1054	1150	1211
55°	1007	1128	1200
60°	960	1111	1197
65°	899	1092	1204
70°	832	1097	1237
75°	745	1118	1307
80°	602	1184	1278
85°	453	1040	1014



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	3.3
10°-20°	246.3	9.5
20°-30°	370.3	14.3
30°-40°	441.1	17.0
40°-50°	451.4	17.4
50°-60°	406.4	15.7
60°-70°	319.2	12.3
70°-80°	207.1	8.0
80°-90°	64.1	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°	702.8	27.1
0°-40°	1143.9	44.1
0°-60°	2001.7	77.2
0°-90°	2592.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2592.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	911	911	911	911	911	
5°	906	908	904	909	910	86
15°	867	870	871	878	880	244
25°	788	794	803	816	818	363
35°	681	689	706	723	728	425
45°	549	562	587	609	614	423
55°	409	427	459	482	488	367
65°	269	290	327	354	361	268
75°	137	163	205	233	240	145
85°	28	52	64	63	63	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.6	910.6	910.6	910.6	910.6
2.5°	911.4	911.4	907.3	911.4	912.2
5°	906.5	908.1	904.0	908.9	909.7
7.5°	901.5	901.5	899.0	904.0	904.9
10°	892.5	893.3	892.5	898.2	899.0
12.5°	881.0	882.6	883.4	889.2	890.0
15°	867.0	869.5	871.0	878.5	880.2
17.5°	851.3	853.8	857.9	866.1	867.8
20°	832.4	835.6	840.6	851.3	853.8
22.5°	811.8	815.1	823.3	833.2	837.3
25°	787.9	794.5	802.7	815.9	818.4
27.5°	764.0	769.8	780.5	794.5	797.8
30°	736.0	745.1	758.3	772.2	775.5
32.5°	708.9	717.9	733.6	748.4	752.5
35°	680.9	689.1	705.6	722.8	727.8
37.5°	648.7	659.5	677.6	694.9	699.8
40°	615.0	628.2	648.7	666.9	672.7
42.5°	582.9	596.9	617.5	637.2	643.8
45°	549.2	562.3	587.0	609.3	614.2
47.5°	514.5	529.4	555.7	577.9	586.2
50°	480.0	495.7	523.7	546.7	551.6
52.5°	445.4	461.9	491.5	516.2	518.7
55°	409.2	427.3	458.6	482.5	487.5
57.5°	376.3	391.9	425.7	450.4	456.1
60°	340.0	357.3	393.5	416.6	424.0
62.5°	305.4	323.6	361.5	384.5	391.0
65°	269.2	289.9	326.9	354.0	360.6
67.5°	238.0	257.7	297.2	323.6	330.1
70°	201.7	224.0	265.9	293.1	299.7
72.5°	170.4	193.4	235.5	261.8	271.7
75°	136.7	163.0	205.0	233.0	239.6
77.5°	103.8	134.2	177.0	198.4	198.4
80°	74.1	106.2	145.7	155.6	157.2
82.5°	48.6	79.9	107.8	107.0	107.0
85°	28.0	51.9	64.2	62.6	62.6
87.5°	10.7	21.4	23.0	23.0	22.2
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)