

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: P734124

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734124
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-CP187-4000K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT
AND SMOOTH LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

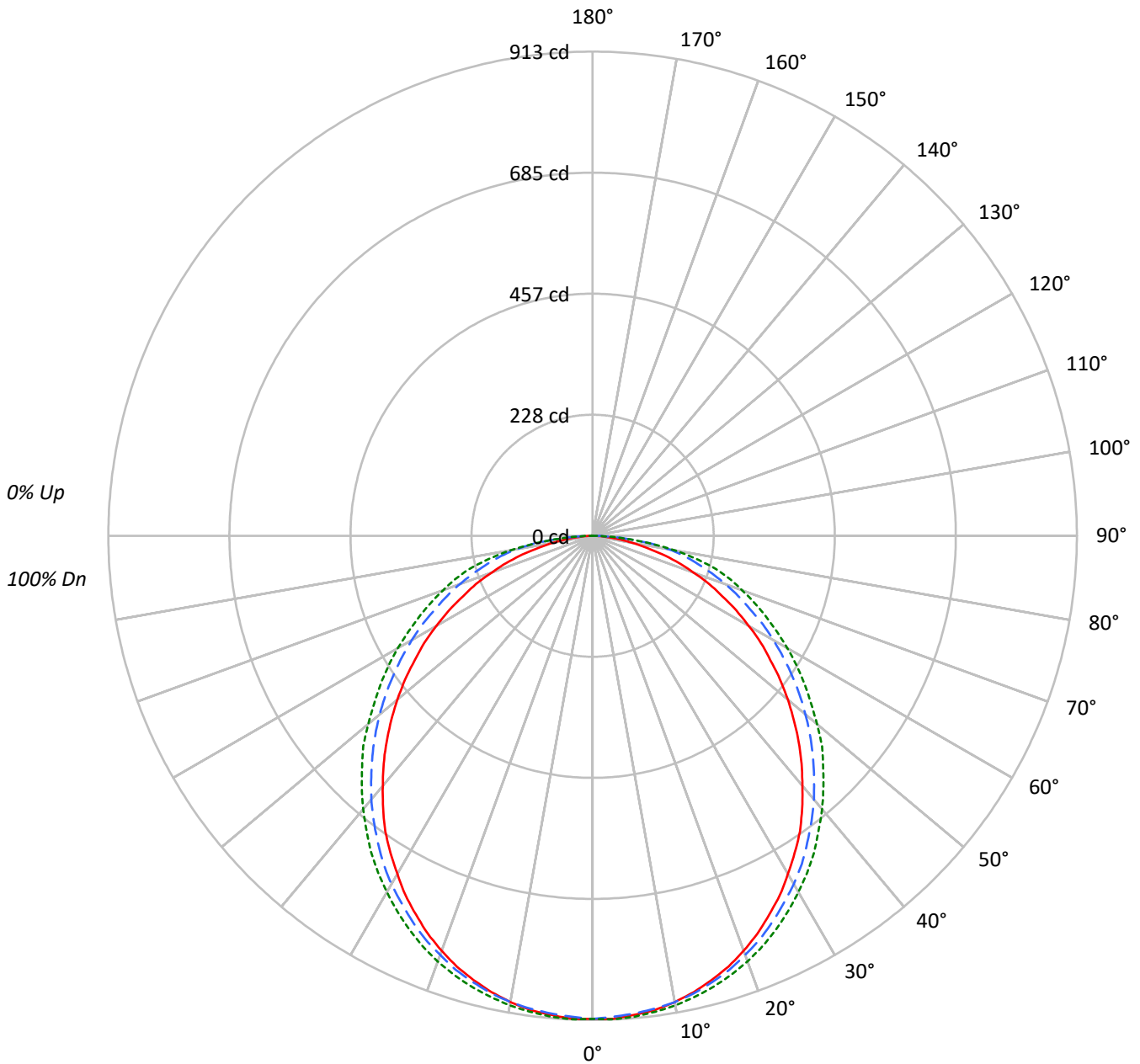
Lumens per Lamp: N/A
Luminaire Lumens: 2593.0 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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: P734124

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

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°	1286	1286	1286
5°	1285	1281	1289
10°	1279	1279	1289
15°	1267	1273	1287
20°	1251	1263	1283
25°	1227	1250	1275
30°	1200	1236	1264
35°	1174	1216	1254
40°	1134	1196	1240
45°	1097	1172	1227
50°	1054	1150	1212
55°	1007	1129	1200
60°	960	1111	1197
65°	899	1092	1205
70°	832	1098	1237
75°	745	1118	1307
80°	602	1185	1278
85°	453	1040	1014



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	3.3
10°-20°	246.4	9.5
20°-30°	370.4	14.3
30°-40°	441.2	17.0
40°-50°	451.6	17.4
50°-60°	406.6	15.7
60°-70°	319.3	12.3
70°-80°	207.2	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°	703.1	27.1
0°-40°	1144.3	44.1
0°-60°	2002.4	77.2
0°-90°	2593.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2593.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	911	911	911	911	911	
5°	907	908	904	909	910	86
15°	867	870	871	879	880	245
25°	788	795	803	816	819	363
35°	681	689	706	723	728	425
45°	549	563	587	610	614	424
55°	409	428	459	483	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°	911.0	911.0	911.0	911.0	911.0
2.5°	911.8	911.8	907.6	911.8	912.6
5°	906.8	908.5	904.3	909.3	910.1
7.5°	901.9	901.9	899.4	904.3	905.2
10°	892.8	893.6	892.8	898.6	899.4
12.5°	881.3	882.9	883.8	889.5	890.3
15°	867.3	869.8	871.4	878.8	880.5
17.5°	851.6	854.1	858.2	866.4	868.1
20°	832.7	836.0	840.9	851.6	854.1
22.5°	812.1	815.4	823.7	833.5	837.6
25°	788.2	794.8	803.0	816.2	818.7
27.5°	764.3	770.1	780.8	794.8	798.1
30°	736.3	745.4	758.6	772.5	775.8
32.5°	709.1	718.2	733.8	748.7	752.8
35°	681.2	689.4	705.9	723.1	728.1
37.5°	649.0	659.7	677.9	695.1	700.1
40°	615.3	628.5	649.0	667.2	672.9
42.5°	583.1	597.1	617.7	637.5	644.0
45°	549.4	562.6	587.3	609.5	614.5
47.5°	514.7	529.6	555.9	578.1	586.4
50°	480.2	495.9	523.9	546.9	551.8
52.5°	445.6	462.0	491.7	516.4	518.9
55°	409.3	427.5	458.8	482.7	487.6
57.5°	376.4	392.1	425.8	450.5	456.3
60°	340.2	357.4	393.7	416.8	424.1
62.5°	305.5	323.7	361.6	384.6	391.2
65°	269.3	290.0	327.0	354.2	360.7
67.5°	238.1	257.8	297.3	323.7	330.3
70°	201.7	224.1	266.0	293.2	299.8
72.5°	170.5	193.5	235.6	261.9	271.8
75°	136.7	163.0	205.1	233.1	239.7
77.5°	103.8	134.3	177.0	198.5	198.5
80°	74.1	106.3	145.8	155.7	157.3
82.5°	48.6	79.9	107.9	107.1	107.1
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)