

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: P734121

Luminaire Tested: **24FCZ2-30HE-S-B2750-W2D-CP187-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734121
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-CP187-2700K
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND SMOOTH LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

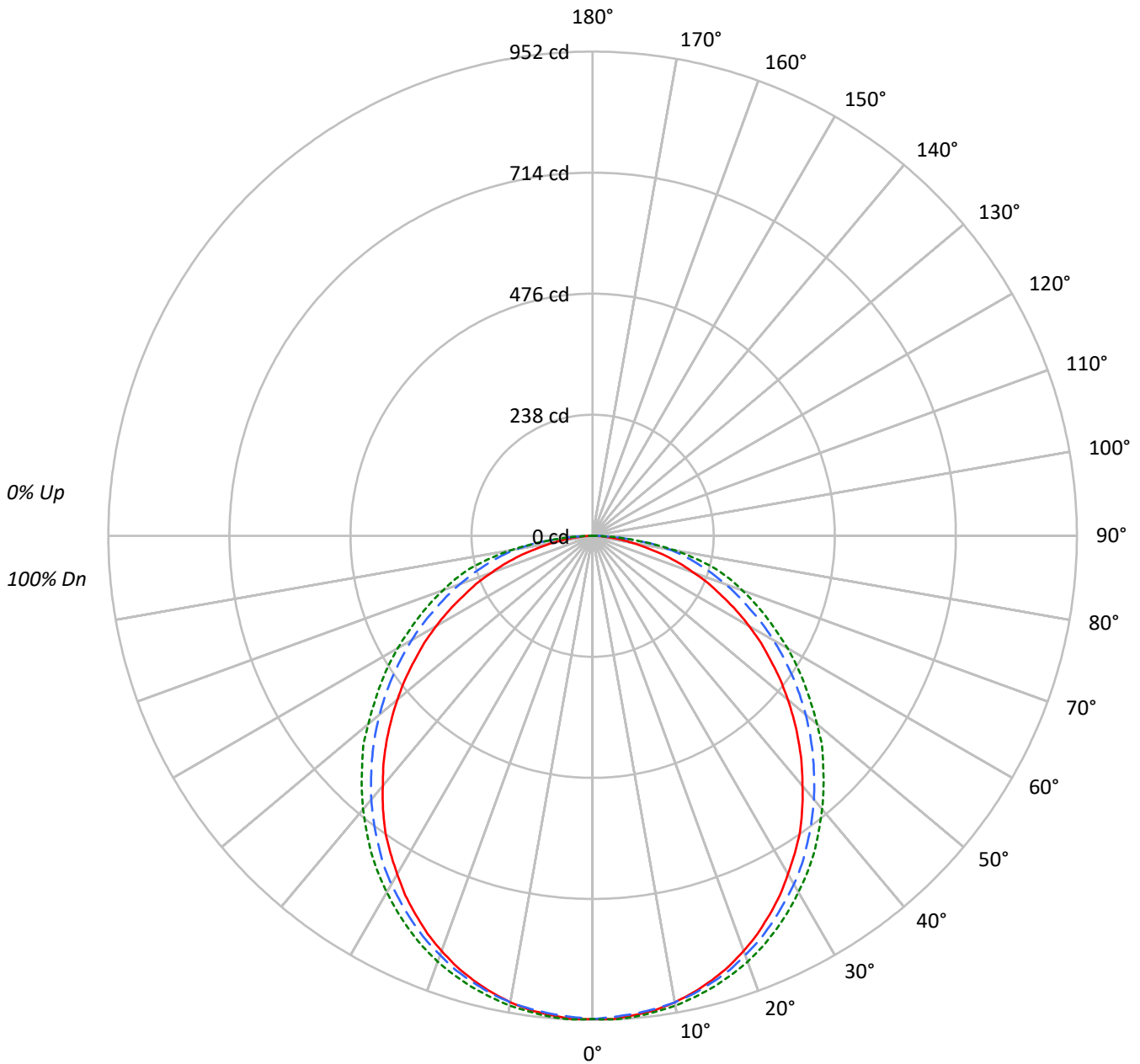
Lumens per Lamp: N/A
Luminaire Lumens: 2705.0 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

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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°	1341	1341	1341
5°	1340	1337	1345
10°	1335	1335	1345
15°	1322	1328	1342
20°	1305	1317	1338
25°	1281	1305	1330
30°	1252	1290	1319
35°	1224	1269	1309
40°	1182	1247	1293
45°	1144	1223	1279
50°	1100	1200	1264
55°	1051	1178	1252
60°	1002	1159	1249
65°	938	1139	1257
70°	869	1145	1290
75°	778	1167	1363
80°	628	1236	1334
85°	473	1085	1057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	3.3
10°-20°	257.1	9.5
20°-30°	386.4	14.3
30°-40°	460.3	17.0
40°-50°	471.1	17.4
50°-60°	424.1	15.7
60°-70°	333.1	12.3
70°-80°	216.2	8.0
80°-90°	66.8	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°	733.4	27.1
0°-40°	1193.7	44.1
0°-60°	2088.9	77.2
0°-90°	2705.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2705.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	950	950	950	950	950	
5°	946	948	943	949	949	90
15°	905	907	909	917	918	255
25°	822	829	838	852	854	379
35°	711	719	736	754	760	443
45°	573	587	613	636	641	442
55°	427	446	479	504	509	383
65°	281	302	341	370	376	280
75°	143	170	214	243	250	151
85°	29	54	67	65	65	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	950.3	950.3	950.3	950.3	950.3
2.5°	951.2	951.2	946.8	951.2	952.0
5°	946.0	947.7	943.4	948.6	949.4
7.5°	940.8	940.8	938.2	943.4	944.3
10°	931.4	932.2	931.4	937.4	938.2
12.5°	919.4	921.0	922.0	928.0	928.8
15°	904.8	907.4	909.0	916.8	918.5
17.5°	888.4	891.0	895.3	903.8	905.6
20°	868.6	872.1	877.2	888.4	891.0
22.5°	847.2	850.6	859.2	869.5	873.8
25°	822.3	829.1	837.7	851.5	854.1
27.5°	797.3	803.3	814.5	829.1	832.6
30°	768.1	777.6	791.3	805.9	809.3
32.5°	739.8	749.2	765.5	781.1	785.3
35°	710.6	719.2	736.3	754.4	759.5
37.5°	677.0	688.2	707.2	725.2	730.3
40°	641.8	655.6	677.0	696.0	702.0
42.5°	608.3	622.9	644.4	665.0	671.9
45°	573.1	586.9	612.6	635.8	641.0
47.5°	537.0	552.5	579.9	603.1	611.7
50°	500.9	517.3	546.5	570.5	575.7
52.5°	464.8	482.0	512.9	538.7	541.3
55°	427.0	446.0	478.6	503.5	508.7
57.5°	392.7	409.0	444.2	470.0	476.0
60°	354.9	372.9	410.7	434.8	442.5
62.5°	318.7	337.7	377.2	401.2	408.1
65°	281.0	302.5	341.1	369.5	376.3
67.5°	248.3	268.9	310.2	337.7	344.5
70°	210.5	233.8	277.5	305.9	312.7
72.5°	177.9	201.9	245.8	273.2	283.5
75°	142.7	170.1	214.0	243.2	250.0
77.5°	108.3	140.1	184.7	207.0	207.0
80°	77.3	110.9	152.1	162.4	164.1
82.5°	50.7	83.3	112.5	111.7	111.7
85°	29.2	54.1	67.0	65.3	65.3
87.5°	11.2	22.4	24.0	24.0	23.2
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)