

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: P734171

Luminaire Tested: **24FCZ2-35-B2750-W2D-CP187-2700K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P734171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272053)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24FCZ2-35-B2750-W2D-CP187-2700K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RIBBED LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

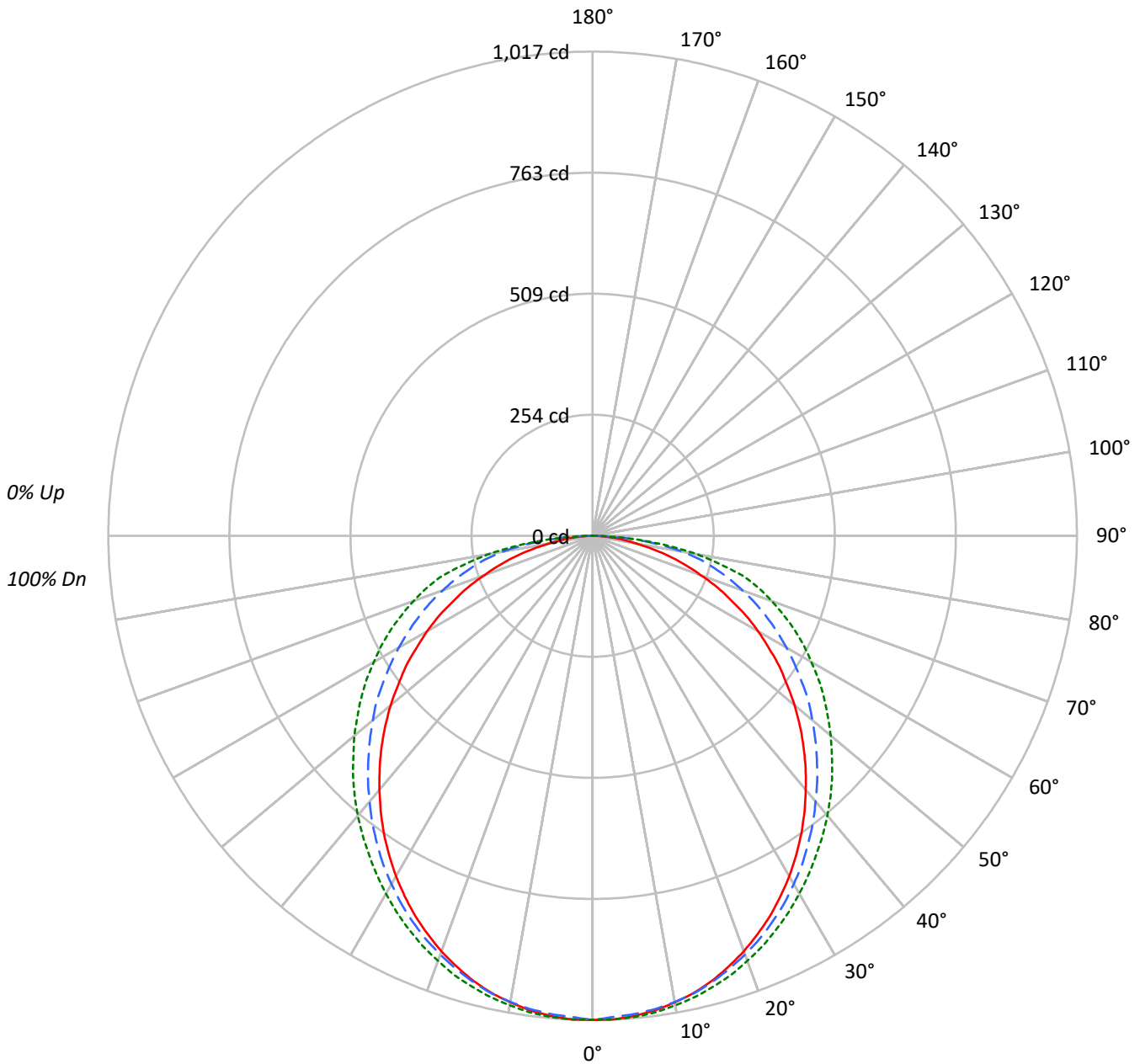
Lumens per Lamp: N/A
Luminaire Lumens: 3028.0 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56																			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36																			
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25																			
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1435	1435	1435
5°	1434	1429	1437
10°	1427	1425	1435
15°	1415	1418	1432
20°	1395	1405	1427
25°	1372	1393	1421
30°	1346	1377	1415
35°	1316	1360	1410
40°	1283	1342	1413
45°	1251	1329	1420
50°	1216	1322	1434
55°	1179	1321	1460
60°	1132	1326	1498
65°	1073	1346	1562
70°	997	1380	1651
75°	909	1449	1791
80°	748	1560	1791
85°	572	1440	1538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.2	3.2
10°-20°	274.5	9.1
20°-30°	413.1	13.6
30°-40°	495.0	16.3
40°-50°	515.9	17.0
50°-60°	480.0	15.9
60°-70°	395.3	13.1
70°-80°	269.2	8.9
80°-90°	88.9	2.9
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°	783.7	25.9
0°-40°	1278.8	42.2
0°-60°	2274.6	75.1
0°-90°	3028.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3028.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1017	1017	1017	1017	1017	
5°	1012	1012	1008	1014	1015	96
15°	968	969	970	979	980	273
25°	881	885	894	910	912	406
35°	764	773	789	810	818	478
45°	627	640	666	699	711	483
55°	479	495	537	579	593	427
65°	321	349	403	451	468	319
75°	167	204	266	313	328	176
85°	35	69	89	95	95	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1016.7	1016.7	1016.7	1016.7	1016.7
2.5°	1016.7	1016.7	1011.6	1016.7	1016.7
5°	1012.5	1012.5	1008.5	1013.6	1014.6
7.5°	1005.5	1006.6	1002.6	1008.5	1009.6
10°	995.4	996.5	994.4	1000.5	1001.5
12.5°	983.3	984.3	984.3	991.4	992.4
15°	968.1	969.2	970.2	979.3	980.3
17.5°	949.0	952.0	954.0	965.2	967.1
20°	928.7	931.8	935.8	947.9	949.9
22.5°	905.5	909.5	916.6	929.7	932.8
25°	881.2	885.3	894.4	909.5	912.5
27.5°	854.0	860.0	871.1	887.3	891.4
30°	825.7	831.7	844.8	862.0	868.1
32.5°	795.4	803.4	818.5	837.8	843.8
35°	763.9	773.1	789.3	810.5	818.5
37.5°	730.7	740.8	759.9	783.2	793.3
40°	696.3	708.4	728.6	755.9	767.0
42.5°	661.9	673.1	698.3	727.6	739.7
45°	626.6	639.7	666.0	699.3	711.4
47.5°	590.1	603.3	634.6	670.0	681.1
50°	553.8	567.0	602.3	639.7	652.9
52.5°	514.4	531.5	572.0	609.4	622.5
55°	479.1	495.1	536.7	579.1	593.2
57.5°	438.6	457.7	503.3	547.7	562.9
60°	401.2	421.4	469.9	515.3	530.6
62.5°	362.9	385.0	436.5	483.1	500.2
65°	321.3	348.6	403.2	450.7	467.8
67.5°	283.9	312.3	369.9	418.4	433.5
70°	241.5	275.9	334.5	383.1	400.2
72.5°	205.1	239.5	301.1	348.6	365.8
75°	166.7	204.1	265.8	313.3	328.4
77.5°	128.4	169.8	231.4	267.8	272.8
80°	92.0	135.4	192.0	213.3	220.3
82.5°	64.7	104.1	141.5	155.7	159.7
85°	35.3	68.7	88.9	95.0	95.0
87.5°	15.1	29.4	35.3	36.4	37.4
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)