

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: P734173

Luminaire Tested: **24FCZ2-35-B2750-W2D-CP187-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734173
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-CP187-3500K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT
AND RIBBED LENS, WITH, CP187 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

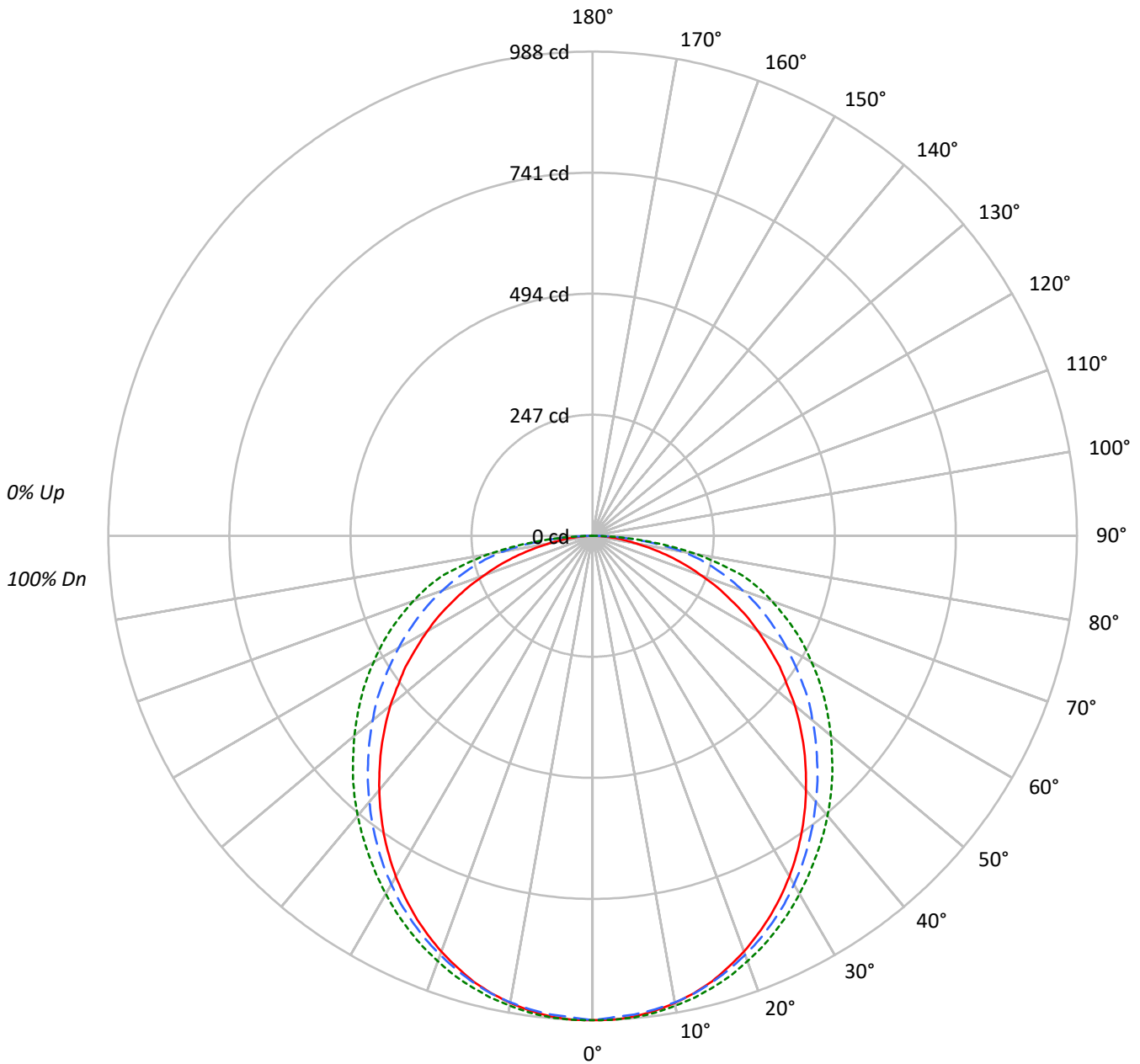
Lumens per Lamp: N/A
Luminaire Lumens: 2944.0 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	1395	1395	1395
5°	1395	1389	1398
10°	1387	1386	1395
15°	1375	1378	1393
20°	1356	1367	1387
25°	1334	1354	1382
30°	1308	1339	1375
35°	1280	1322	1371
40°	1247	1305	1374
45°	1216	1292	1381
50°	1182	1286	1394
55°	1146	1284	1419
60°	1101	1290	1456
65°	1043	1309	1519
70°	969	1342	1606
75°	884	1409	1741
80°	727	1517	1741
85°	555	1399	1496



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	3.2
10°-20°	266.9	9.1
20°-30°	401.6	13.6
30°-40°	481.3	16.3
40°-50°	501.6	17.0
50°-60°	466.7	15.9
60°-70°	384.3	13.1
70°-80°	261.7	8.9
80°-90°	86.4	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°	762.0	25.9
0°-40°	1243.3	42.2
0°-60°	2211.5	75.1
0°-90°	2944.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2944.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	984	984	980	986	986	93
15°	941	942	943	952	953	265
25°	857	861	870	884	887	394
35°	743	752	767	788	796	464
45°	609	622	648	680	692	470
55°	466	481	522	563	577	415
65°	312	339	392	438	455	310
75°	162	198	258	305	319	171
85°	34	67	86	92	92	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	988.5	988.5	988.5	988.5	988.5
2.5°	988.5	988.5	983.5	988.5	988.5
5°	984.5	984.5	980.5	985.5	986.5
7.5°	977.6	978.7	974.7	980.5	981.6
10°	967.8	968.8	966.8	972.7	973.7
12.5°	956.0	957.0	957.0	963.9	964.9
15°	941.2	942.3	943.2	952.1	953.1
17.5°	922.6	925.6	927.5	938.4	940.3
20°	903.0	905.9	909.9	921.6	923.6
22.5°	880.4	884.3	891.1	903.9	906.9
25°	856.8	860.7	869.6	884.3	887.2
27.5°	830.3	836.2	847.0	862.7	866.6
30°	802.8	808.6	821.4	838.1	844.0
32.5°	773.3	781.1	795.8	814.5	820.4
35°	742.8	751.6	767.4	788.0	795.8
37.5°	710.4	720.3	738.8	761.5	771.3
40°	677.0	688.8	708.4	734.9	745.7
42.5°	643.5	654.4	678.9	707.5	719.2
45°	609.2	622.0	647.5	679.9	691.7
47.5°	573.8	586.6	617.0	651.4	662.2
50°	538.5	551.3	585.6	622.0	634.8
52.5°	500.1	516.8	556.1	592.5	605.3
55°	465.8	481.4	521.8	563.0	576.7
57.5°	426.4	445.0	489.3	532.6	547.2
60°	390.1	409.7	456.9	501.1	515.9
62.5°	352.8	374.3	424.4	469.7	486.4
65°	312.4	338.9	392.0	438.2	454.9
67.5°	276.0	303.6	359.7	406.8	421.5
70°	234.8	268.2	325.2	372.4	389.1
72.5°	199.4	232.8	292.7	338.9	355.6
75°	162.1	198.5	258.4	304.6	319.3
77.5°	124.8	165.1	225.0	260.4	265.3
80°	89.4	131.7	186.6	207.4	214.2
82.5°	62.9	101.3	137.6	151.3	155.3
85°	34.3	66.8	86.4	92.4	92.4
87.5°	14.7	28.5	34.3	35.4	36.4
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)