

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: P734287

Luminaire Tested: **24FCZ2-35HE-B2750-W2D-CA08-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734287
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: 24FCZ2-35HE-B2750-W2D-CA08-3000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

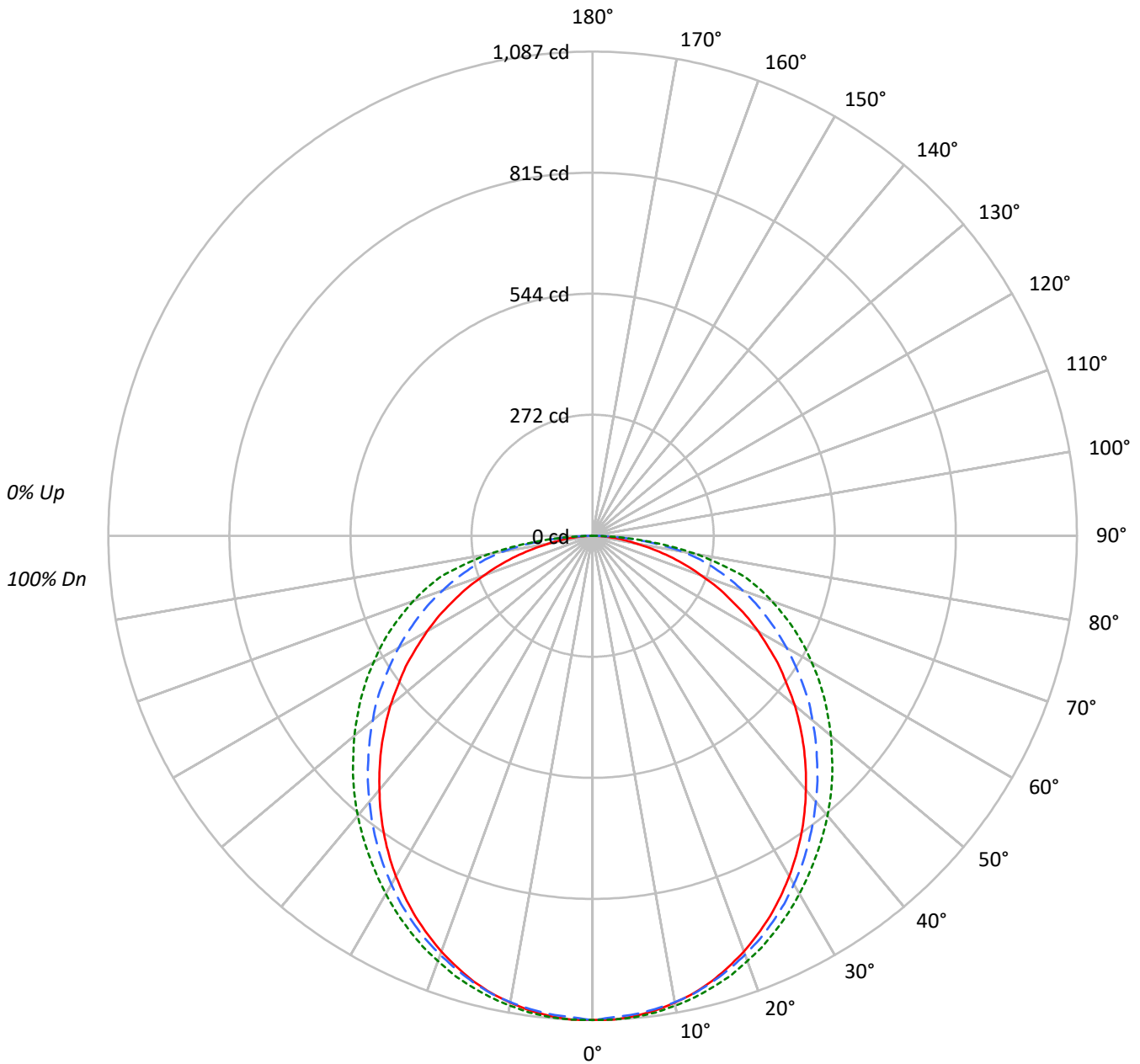
Lumens per Lamp: N/A
Luminaire Lumens: 3238.0 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 26
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: P734287

CATALOG NUMBER: 24FCZ2-35HE-B2750-W2D-CA08-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P734287

CATALOG NUMBER: 24FCZ2-35HE-B2750-W2D-CA08-3000K

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°	1534	1534	1534
5°	1534	1528	1537
10°	1525	1524	1535
15°	1513	1516	1532
20°	1492	1503	1526
25°	1468	1489	1520
30°	1439	1472	1513
35°	1407	1454	1508
40°	1372	1436	1511
45°	1337	1422	1519
50°	1300	1414	1533
55°	1261	1412	1561
60°	1211	1418	1602
65°	1147	1440	1671
70°	1066	1476	1766
75°	972	1550	1915
80°	799	1669	1915
85°	612	1540	1645



TEST NUMBER: P734287

CATALOG NUMBER: 24FCZ2-35HE-B2750-W2D-CA08-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.8	3.2
10°-20°	293.5	9.1
20°-30°	441.7	13.6
30°-40°	529.4	16.3
40°-50°	551.7	17.0
50°-60°	513.2	15.9
60°-70°	422.7	13.1
70°-80°	287.9	8.9
80°-90°	95.1	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°	838.1	25.9
0°-40°	1367.5	42.2
0°-60°	2432.3	75.1
0°-90°	3238.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3238.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1087	1087	1087	1087	1087	
5°	1083	1083	1078	1084	1085	103
15°	1035	1036	1037	1047	1048	292
25°	942	947	956	973	976	434
35°	817	827	844	867	875	511
45°	670	684	712	748	761	517
55°	512	530	574	619	634	457
65°	344	373	431	482	500	341
75°	178	218	284	335	351	188
85°	38	74	95	102	102	47
90°	0	0	0	0	0	



TEST NUMBER: P734287

CATALOG NUMBER: 24FCZ2-35HE-B2750-W2D-CA08-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1087.2	1087.2	1087.2	1087.2	1087.2
2.5°	1087.2	1087.2	1081.7	1087.2	1087.2
5°	1082.8	1082.8	1078.5	1083.9	1085.0
7.5°	1075.2	1076.4	1072.1	1078.5	1079.6
10°	1064.4	1065.6	1063.4	1069.9	1070.9
12.5°	1051.5	1052.6	1052.6	1060.1	1061.3
15°	1035.2	1036.4	1037.4	1047.2	1048.3
17.5°	1014.8	1018.0	1020.1	1032.1	1034.2
20°	993.2	996.4	1000.7	1013.6	1015.8
22.5°	968.3	972.6	980.1	994.2	997.5
25°	942.4	946.7	956.4	972.6	975.8
27.5°	913.2	919.7	931.5	948.9	953.2
30°	883.0	889.3	903.4	921.8	928.3
32.5°	850.5	859.1	875.3	895.9	902.4
35°	816.9	826.7	844.0	866.7	875.3
37.5°	781.4	792.2	812.6	837.5	848.3
40°	744.6	757.5	779.2	808.3	820.2
42.5°	707.8	719.8	746.7	778.1	791.0
45°	670.0	684.1	712.2	747.8	760.8
47.5°	631.1	645.1	678.6	716.5	728.4
50°	592.2	606.3	644.1	684.1	698.1
52.5°	550.0	568.4	611.7	651.6	665.7
55°	512.3	529.5	573.9	619.2	634.3
57.5°	469.0	489.5	538.2	585.7	601.9
60°	429.0	450.7	502.5	551.1	567.4
62.5°	388.0	411.7	466.8	516.6	534.9
65°	343.6	372.8	431.1	481.9	500.3
67.5°	303.6	334.0	395.6	447.4	463.6
70°	258.3	295.0	357.7	409.6	428.0
72.5°	219.3	256.1	322.0	372.8	391.1
75°	178.3	218.3	284.2	335.0	351.2
77.5°	137.3	181.6	247.5	286.4	291.8
80°	98.3	144.8	205.3	228.1	235.6
82.5°	69.2	111.4	151.4	166.5	170.8
85°	37.8	73.5	95.1	101.6	101.6
87.5°	16.2	31.4	37.8	38.9	40.0
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)