

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: P734302

Luminaire Tested: **24FCZ2-35HE-B2750-W2D-CP250-3000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P734302
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-CP250-3000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT
AND RIBBED LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

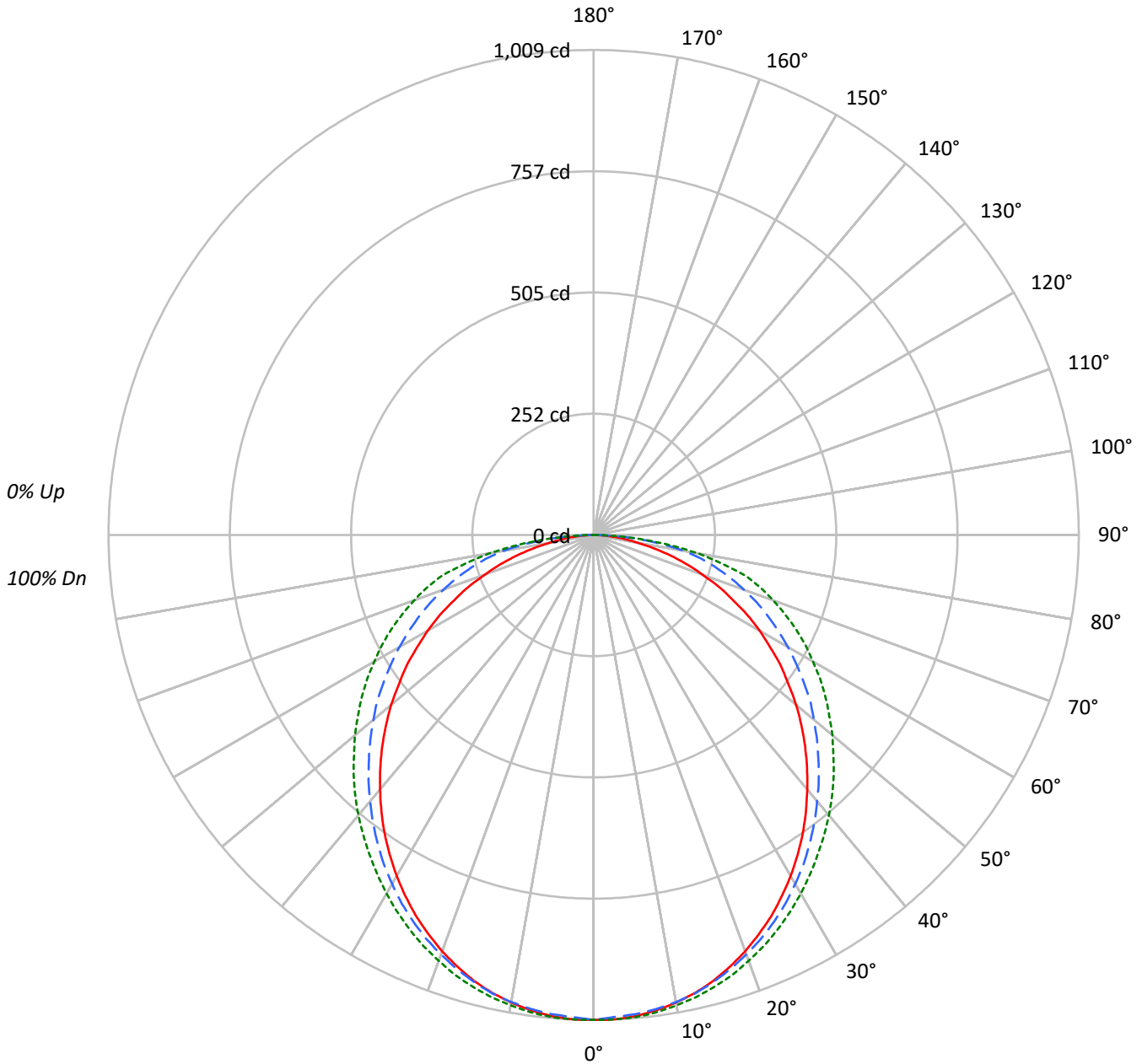
Lumens per Lamp: N/A
Luminaire Lumens: 3005.0 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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: P734302

CATALOG NUMBER: 24FCZ2-35HE-B2750-W2D-CP250-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P734302

CATALOG NUMBER: 24FCZ2-35HE-B2750-W2D-CP250-3000K

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°	1424	1424	1424
5°	1424	1418	1427
10°	1416	1414	1424
15°	1404	1407	1421
20°	1384	1395	1416
25°	1362	1382	1410
30°	1335	1366	1404
35°	1306	1350	1400
40°	1273	1332	1402
45°	1241	1319	1409
50°	1207	1312	1423
55°	1170	1311	1449
60°	1124	1316	1486
65°	1065	1336	1551
70°	989	1370	1639
75°	902	1439	1777
80°	742	1548	1778
85°	568	1428	1527



TEST NUMBER: P734302

CATALOG NUMBER: 24FCZ2-35HE-B2750-W2D-CP250-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	3.2
10°-20°	272.4	9.1
20°-30°	409.9	13.6
30°-40°	491.3	16.3
40°-50°	512.0	17.0
50°-60°	476.3	15.9
60°-70°	392.3	13.1
70°-80°	267.2	8.9
80°-90°	88.2	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°	777.8	25.9
0°-40°	1269.1	42.2
0°-60°	2257.3	75.1
0°-90°	3005.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3005.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1009	1009	1009	1009	1009	
5°	1005	1005	1001	1006	1007	95
15°	961	962	963	972	973	271
25°	874	878	888	903	906	403
35°	758	767	783	804	812	474
45°	622	635	661	694	706	480
55°	475	491	533	575	589	424
65°	319	346	400	447	464	317
75°	166	203	264	311	326	175
85°	35	68	88	94	94	44
90°	0	0	0	0	0	



TEST NUMBER: P734302

CATALOG NUMBER: 24FCZ2-35HE-B2750-W2D-CP250-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1009.0	1009.0	1009.0	1009.0	1009.0
2.5°	1009.0	1009.0	1003.9	1009.0	1009.0
5°	1004.9	1004.9	1000.9	1005.9	1006.9
7.5°	997.8	998.9	994.9	1000.9	1002.0
10°	987.8	988.9	986.8	992.9	993.9
12.5°	975.8	976.8	976.8	983.8	984.9
15°	960.7	961.8	962.8	971.9	972.8
17.5°	941.8	944.8	946.7	957.8	959.8
20°	921.7	924.7	928.7	940.7	942.7
22.5°	898.6	902.6	909.6	922.7	925.7
25°	874.5	878.5	887.6	902.6	905.6
27.5°	847.5	853.5	864.5	880.6	884.6
30°	819.4	825.4	838.4	855.5	861.5
32.5°	789.3	797.3	812.3	831.4	837.4
35°	758.1	767.2	783.3	804.3	812.3
37.5°	725.1	735.2	754.2	777.2	787.3
40°	691.1	703.0	723.1	750.2	761.2
42.5°	656.8	668.0	693.0	722.1	734.1
45°	621.8	634.8	661.0	694.0	706.0
47.5°	585.7	598.7	629.8	664.9	675.9
50°	549.6	562.7	597.7	634.8	647.9
52.5°	510.5	527.5	567.6	604.8	617.8
55°	475.4	491.4	532.6	574.7	588.7
57.5°	435.3	454.3	499.5	543.6	558.6
60°	398.2	418.2	466.3	511.4	526.5
62.5°	360.1	382.1	433.2	479.4	496.4
65°	318.9	346.0	400.1	447.2	464.3
67.5°	281.8	309.9	367.1	415.2	430.2
70°	239.7	273.8	331.9	380.2	397.2
72.5°	203.6	237.6	298.8	346.0	363.0
75°	165.5	202.6	263.8	310.9	325.9
77.5°	127.4	168.5	229.7	265.8	270.8
80°	91.3	134.4	190.5	211.7	218.7
82.5°	64.2	103.4	140.5	154.5	158.5
85°	35.1	68.2	88.2	94.3	94.3
87.5°	15.0	29.1	35.1	36.1	37.1
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)