

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: P734165

Luminaire Tested: **24FCZ2-35-B2750-W2D-CA08-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734165
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-CA08-5000K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RIBBED LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

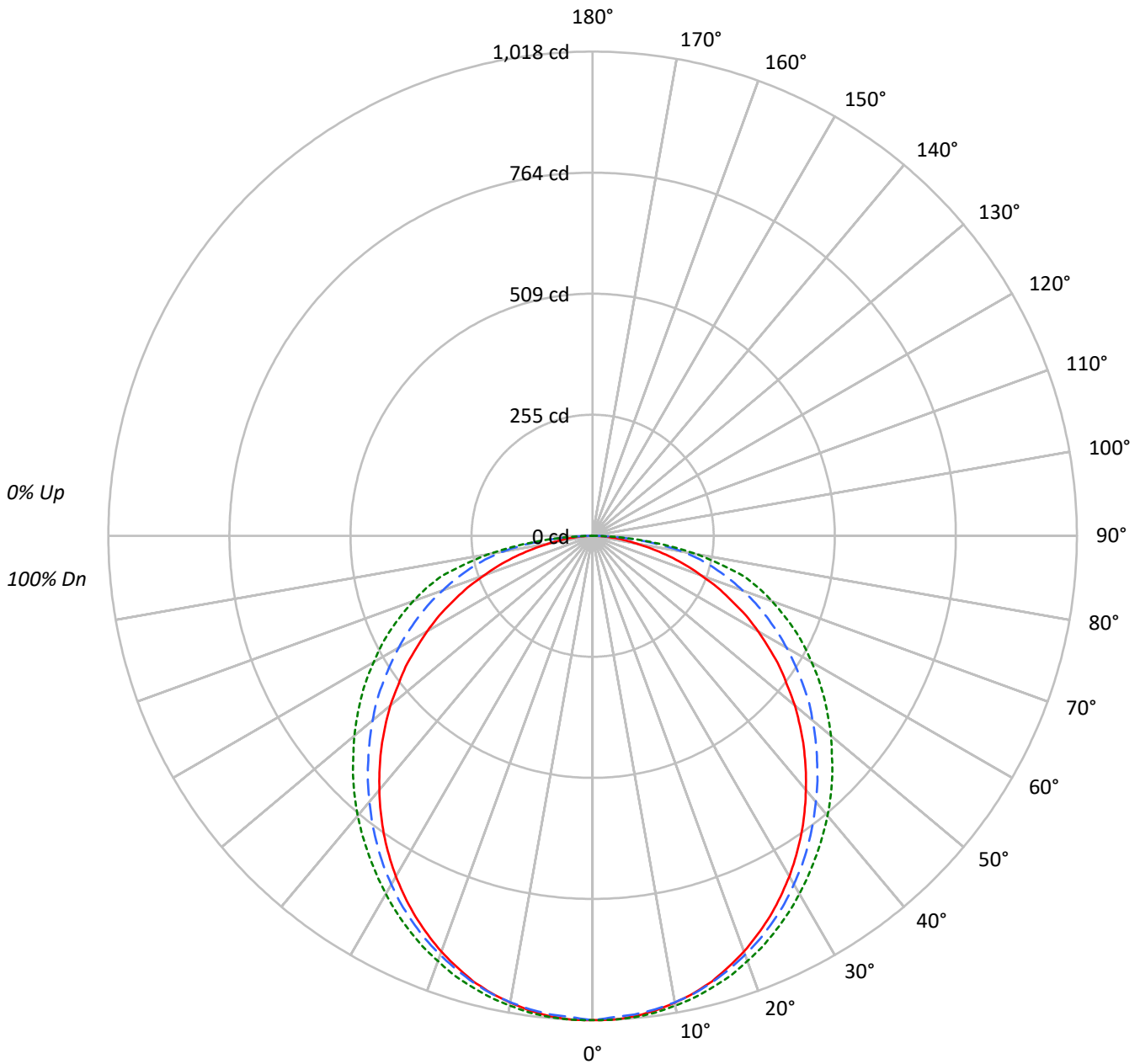
Lumens per Lamp: N/A
Luminaire Lumens: 3033.0 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P734165

CATALOG NUMBER: 24FCZ2-35-B2750-W2D-CA08-5000K

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°	1437	1437	1437
5°	1437	1431	1440
10°	1429	1427	1438
15°	1417	1420	1435
20°	1397	1408	1429
25°	1375	1395	1423
30°	1348	1379	1417
35°	1318	1362	1413
40°	1285	1345	1415
45°	1253	1331	1422
50°	1218	1325	1436
55°	1181	1323	1462
60°	1134	1329	1500
65°	1075	1348	1565
70°	998	1382	1654
75°	911	1452	1793
80°	749	1563	1794
85°	573	1443	1542



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.3	3.2
10°-20°	275.0	9.1
20°-30°	413.8	13.6
30°-40°	495.8	16.3
40°-50°	516.7	17.0
50°-60°	480.7	15.9
60°-70°	395.9	13.1
70°-80°	269.7	8.9
80°-90°	89.0	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°	785.0	25.9
0°-40°	1280.9	42.2
0°-60°	2278.3	75.1
0°-90°	3033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3033.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1018	1018	1018	1018	1018	
5°	1014	1014	1010	1015	1016	96
15°	970	971	972	981	982	273
25°	883	887	896	911	914	406
35°	765	774	791	812	820	478
45°	628	641	667	700	713	484
55°	480	496	538	580	594	428
65°	322	349	404	451	469	319
75°	167	204	266	314	329	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°	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1018.4	1018.4	1013.2	1018.4	1018.4
5°	1014.2	1014.2	1010.2	1015.3	1016.3
7.5°	1007.1	1008.2	1004.2	1010.2	1011.3
10°	997.0	998.1	996.0	1002.1	1003.1
12.5°	984.9	985.9	985.9	993.0	994.1
15°	969.7	970.8	971.8	980.9	981.9
17.5°	950.5	953.6	955.5	966.8	968.7
20°	930.3	933.3	937.4	949.4	951.5
22.5°	907.0	911.0	918.1	931.3	934.3
25°	882.7	886.7	895.9	911.0	914.1
27.5°	855.4	861.5	872.6	888.8	892.8
30°	827.1	833.0	846.2	863.4	869.5
32.5°	796.7	804.7	819.9	839.1	845.2
35°	765.2	774.4	790.6	811.8	819.9
37.5°	731.9	742.0	761.2	784.5	794.6
40°	697.5	709.6	729.8	757.2	768.3
42.5°	663.0	674.2	699.4	728.9	740.9
45°	627.6	640.8	667.1	700.4	712.6
47.5°	591.1	604.3	635.6	671.1	682.2
50°	554.8	567.9	603.3	640.8	653.9
52.5°	515.2	532.4	572.9	610.4	623.6
55°	479.8	495.9	537.5	580.0	594.2
57.5°	439.3	458.5	504.1	548.7	563.8
60°	401.9	422.1	470.7	516.2	531.4
62.5°	363.4	385.7	437.3	483.9	501.1
65°	321.8	349.2	403.8	451.4	468.6
67.5°	284.4	312.8	370.5	419.1	434.2
70°	241.9	276.3	335.0	383.7	400.9
72.5°	205.5	239.9	301.6	349.2	366.4
75°	167.0	204.5	266.2	313.8	328.9
77.5°	128.6	170.1	231.8	268.3	273.3
80°	92.1	135.7	192.3	213.6	220.7
82.5°	64.8	104.3	141.8	155.9	159.9
85°	35.4	68.8	89.1	95.2	95.2
87.5°	15.1	29.4	35.4	36.5	37.5
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)