

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: P734301

Luminaire Tested: **24FCZ2-35HE-B2750-W2D-CP250-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P734301
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-CP250-2700K
Description: 2X4 3500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND RIBBED LENS, WITH, CP250 BOTTOM LENS

Light Source: -
Ballast/Driver: -

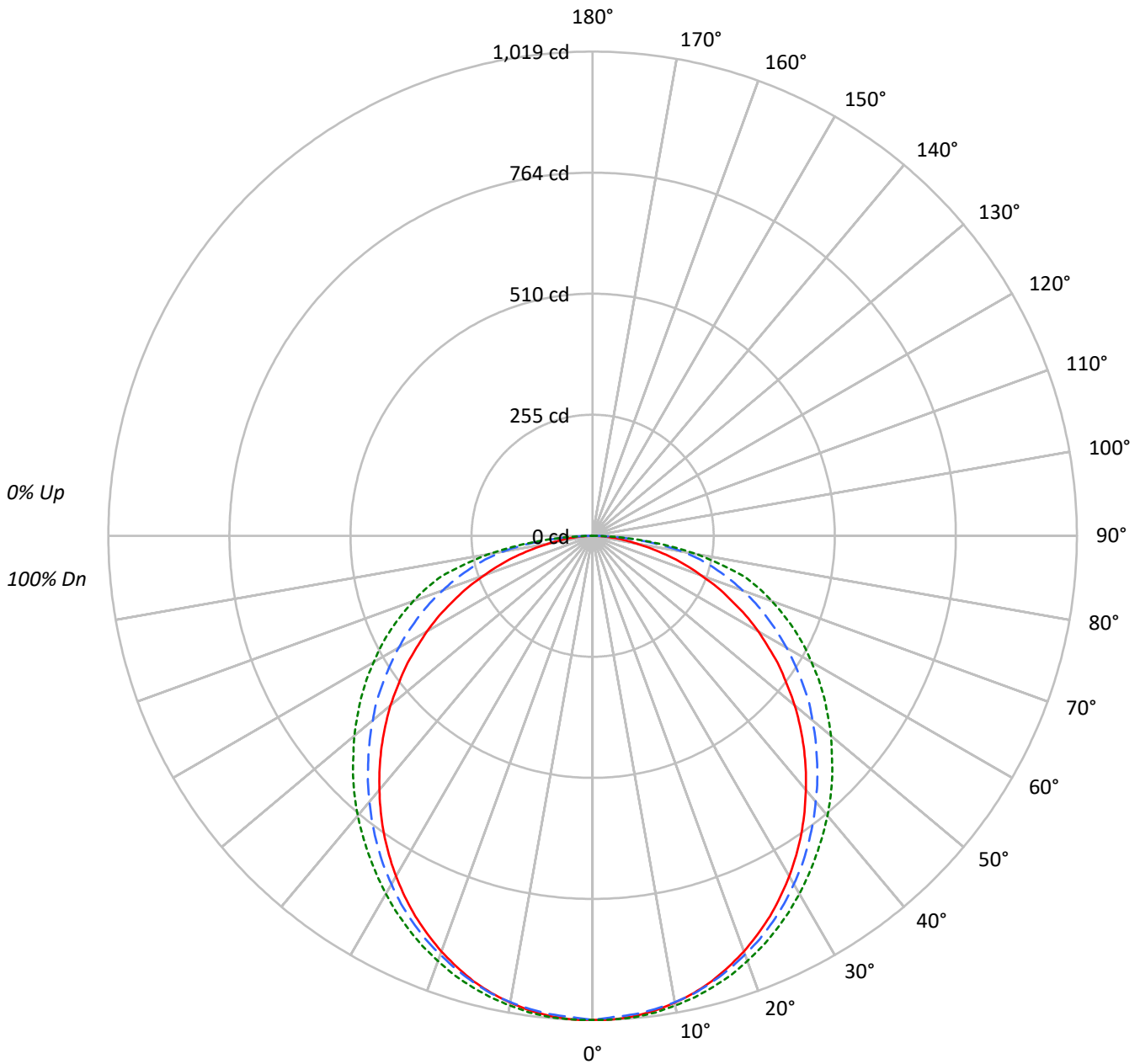
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3035.0 lumens
Efficiency: N/A
Efficacy: 116.7 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

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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°	1438	1438	1438
5°	1438	1432	1441
10°	1430	1428	1439
15°	1418	1421	1436
20°	1398	1409	1430
25°	1376	1396	1424
30°	1349	1380	1418
35°	1319	1363	1413
40°	1286	1345	1416
45°	1253	1332	1423
50°	1219	1326	1437
55°	1182	1324	1463
60°	1135	1329	1501
65°	1076	1349	1566
70°	999	1383	1656
75°	911	1453	1795
80°	749	1564	1795
85°	573	1443	1542



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	3.2
10°-20°	275.1	9.1
20°-30°	414.0	13.6
30°-40°	496.2	16.3
40°-50°	517.1	17.0
50°-60°	481.1	15.9
60°-70°	396.2	13.1
70°-80°	269.8	8.9
80°-90°	89.1	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°	785.5	25.9
0°-40°	1281.7	42.2
0°-60°	2279.9	75.1
0°-90°	3035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3035.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1015	1015	1011	1016	1017	96
15°	970	971	972	982	982	273
25°	883	887	896	912	915	407
35°	766	775	791	812	820	479
45°	628	641	668	701	713	484
55°	480	496	538	580	595	428
65°	322	349	404	452	469	320
75°	167	205	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°	1019.0	1019.0	1019.0	1019.0	1019.0
2.5°	1019.0	1019.0	1013.9	1019.0	1019.0
5°	1014.9	1014.9	1010.9	1016.0	1017.0
7.5°	1007.8	1008.9	1004.9	1010.9	1012.0
10°	997.7	998.8	996.7	1002.8	1003.8
12.5°	985.6	986.6	986.6	993.6	994.7
15°	970.3	971.4	972.4	981.6	982.5
17.5°	951.2	954.2	956.2	967.4	969.3
20°	930.9	933.9	938.0	950.1	952.1
22.5°	907.6	911.6	918.7	931.9	934.9
25°	883.3	887.3	896.5	911.6	914.7
27.5°	855.9	862.0	873.1	889.4	893.4
30°	827.6	833.6	846.8	864.0	870.1
32.5°	797.2	805.3	820.4	839.7	845.8
35°	765.7	774.9	791.1	812.3	820.4
37.5°	732.4	742.5	761.7	785.0	795.1
40°	698.0	710.0	730.3	757.7	768.8
42.5°	663.4	674.6	699.9	729.3	741.4
45°	628.0	641.2	667.6	700.9	713.1
47.5°	591.5	604.7	636.1	671.6	682.7
50°	555.1	568.3	603.7	641.2	654.4
52.5°	515.6	532.8	573.3	610.8	624.0
55°	480.2	496.3	537.9	580.4	594.6
57.5°	439.6	458.8	504.5	549.0	564.2
60°	402.1	422.4	471.0	516.5	531.8
62.5°	363.7	385.9	437.6	484.2	501.4
65°	322.1	349.4	404.1	451.7	468.9
67.5°	284.6	313.0	370.8	419.4	434.5
70°	242.1	276.5	335.2	384.0	401.2
72.5°	205.6	240.0	301.8	349.4	366.6
75°	167.1	204.6	266.4	314.0	329.1
77.5°	128.7	170.2	232.0	268.5	273.5
80°	92.2	135.8	192.4	213.8	220.9
82.5°	64.8	104.4	141.9	156.0	160.1
85°	35.4	68.9	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)