

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P973136

Luminaire Tested: FLR2-14-42HE-L835-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-14-42HE-L835-CP250
Description: 1*4 FLR-2.0 4200 Lumen High Efficacy at 3500CCT & 80CRI with Clear Polycarbonate (0.250" thickness)

Light Source:
Ballast/Driver: -

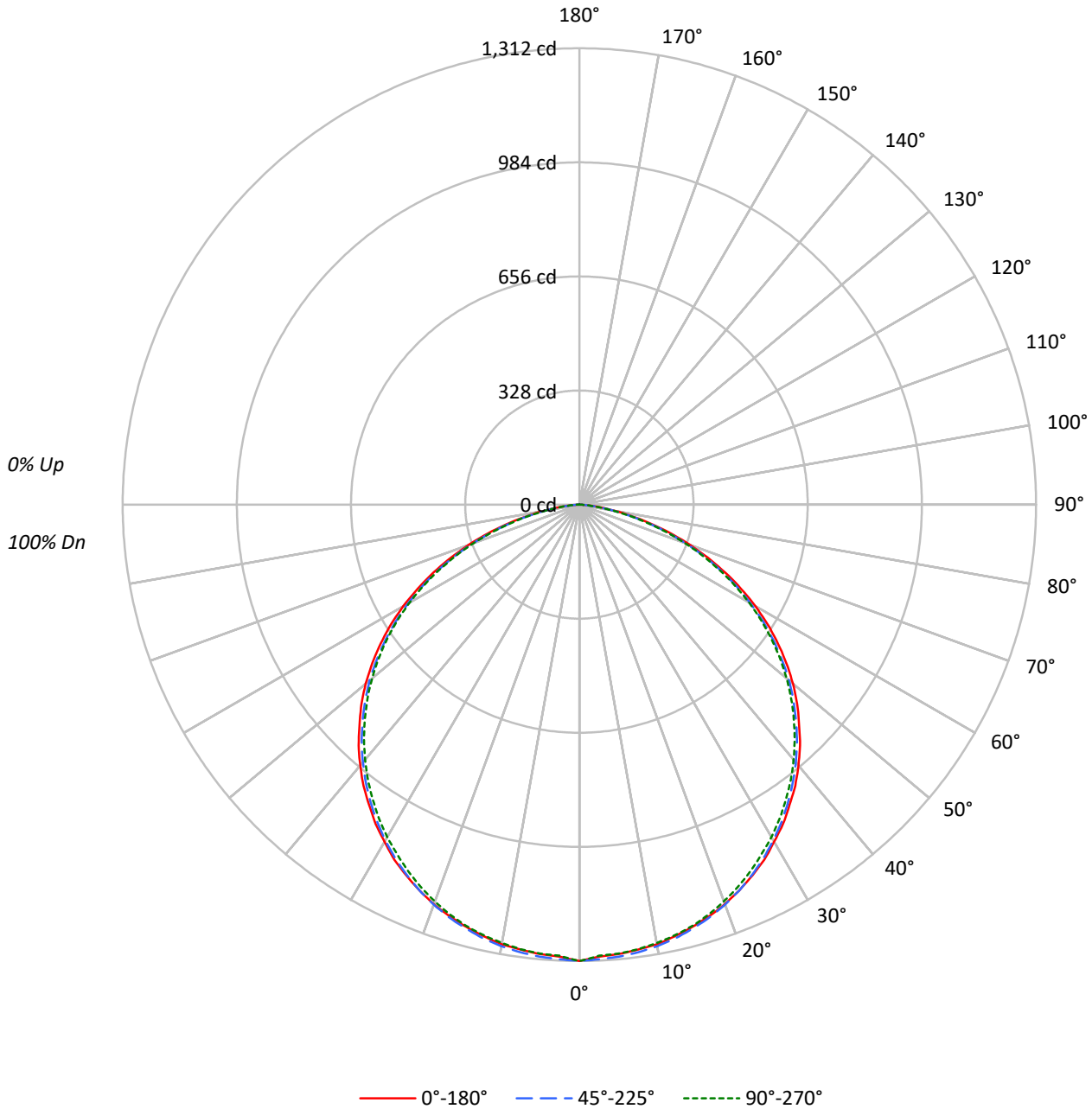
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3672.8 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P973136
CATALOG NUMBER: FLR2-14-42HE-L835-CP250

Luminous Intensity Polar Plot





TEST NUMBER: P973136
 CATALOG NUMBER: FLR2-14-42HE-L835-CP250

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
RC	80									70									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	50	30	10	0														
RCR																																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100														
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71						71														
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60						60														
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44														
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39														
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30						30														
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27						27														
10	53	40	32	27	52	39	32	27	38	32	27	38	31	27	37	31	26	25						25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3531	3531	3531
5°	3504	3524	3499
10°	3507	3522	3497
15°	3501	3515	3494
20°	3501	3504	3476
25°	3493	3487	3454
30°	3478	3463	3429
35°	3460	3433	3399
40°	3440	3398	3364
45°	3398	3350	3315
50°	3354	3293	3254
55°	3270	3193	3162
60°	3143	3055	3028
65°	2943	2856	2825
70°	2654	2547	2526
75°	2225	2112	2090
80°	1616	1506	1464
85°	855	753	689

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3398 cd/sqm



TEST NUMBER: P973136
 CATALOG NUMBER: FLR2-14-42HE-L835-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	3.4
10°-20°	356.9	9.7
20°-30°	542.3	14.8
30°-40°	656.0	17.9
40°-50°	681.8	18.6
50°-60°	610.4	16.6
60°-70°	445.2	12.1
70°-80°	219.2	6.0
80°-90°	36.7	1.0
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°	1023.5	27.9
0°-40°	1679.5	45.7
0°-60°	2971.7	80.9
0°-90°	3672.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3672.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1312	1312	1312	1312	1312	
5°	1297	1311	1305	1317	1295	123
15°	1257	1268	1262	1273	1254	355
25°	1176	1182	1174	1180	1163	542
35°	1053	1055	1045	1049	1035	660
45°	893	892	880	882	871	689
55°	697	691	681	679	674	622
65°	462	457	449	445	444	457
75°	214	210	203	201	201	228
85°	28	27	24	22	22	40
90°	0	0	0	0	0	



TEST NUMBER: P973136
 CATALOG NUMBER: FLR2-14-42HE-L835-CP250

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1312.2	1312.2	1312.2	1312.2	1312.2
2.5°	1300.8	1315.5	1308.4	1321.5	1298.1
5°	1297.0	1311.2	1304.6	1317.1	1295.4
7.5°	1290.5	1305.2	1298.1	1310.1	1289.4
10°	1283.5	1296.5	1288.9	1300.8	1279.7
12.5°	1271.0	1284.0	1276.9	1287.8	1268.2
15°	1256.8	1268.2	1261.7	1272.6	1254.1
17.5°	1240.5	1251.4	1244.3	1254.1	1235.7
20°	1222.6	1231.3	1223.7	1231.9	1213.9
22.5°	1200.4	1208.5	1200.4	1205.8	1190.0
25°	1176.5	1182.4	1174.3	1179.7	1163.4
27.5°	1150.9	1154.2	1146.0	1150.4	1133.5
30°	1119.4	1123.2	1114.5	1120.0	1103.7
32.5°	1089.0	1091.2	1081.4	1085.7	1071.1
35°	1053.2	1055.3	1045.0	1049.4	1034.7
37.5°	1018.9	1018.4	1007.5	1010.3	997.8
40°	979.3	978.7	967.3	969.5	957.6
42.5°	938.6	936.4	925.5	926.6	915.7
45°	892.9	891.8	880.4	882.1	871.2
47.5°	848.9	845.7	834.3	834.8	825.6
50°	801.1	796.3	786.5	785.4	777.2
52.5°	750.1	744.7	733.8	732.7	726.7
55°	696.9	690.9	680.6	678.9	674.0
57.5°	642.0	634.4	626.2	623.0	619.2
60°	583.9	576.8	567.6	564.3	562.7
62.5°	523.6	516.5	509.5	506.2	504.0
65°	462.2	456.8	448.6	445.4	443.7
67.5°	399.8	394.9	387.3	383.5	382.9
70°	337.3	332.4	323.7	321.5	321.0
72.5°	274.8	270.5	262.3	260.2	260.2
75°	214.0	210.2	203.1	201.0	201.0
77.5°	156.4	153.2	147.7	145.0	145.0
80°	104.3	102.1	97.2	95.1	94.5
82.5°	60.3	59.2	54.9	52.7	53.8
85°	27.7	26.6	24.4	21.7	22.3
87.5°	7.1	6.5	4.9	3.8	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)