

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: P973385

Luminaire Tested: FLR2-14-42-L835-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973385
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: FLR2-14-42-L835-CP375
Description: 1*4 FLR-2.0 4200 LUMEN at 3500 CCT & 80CRI with Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

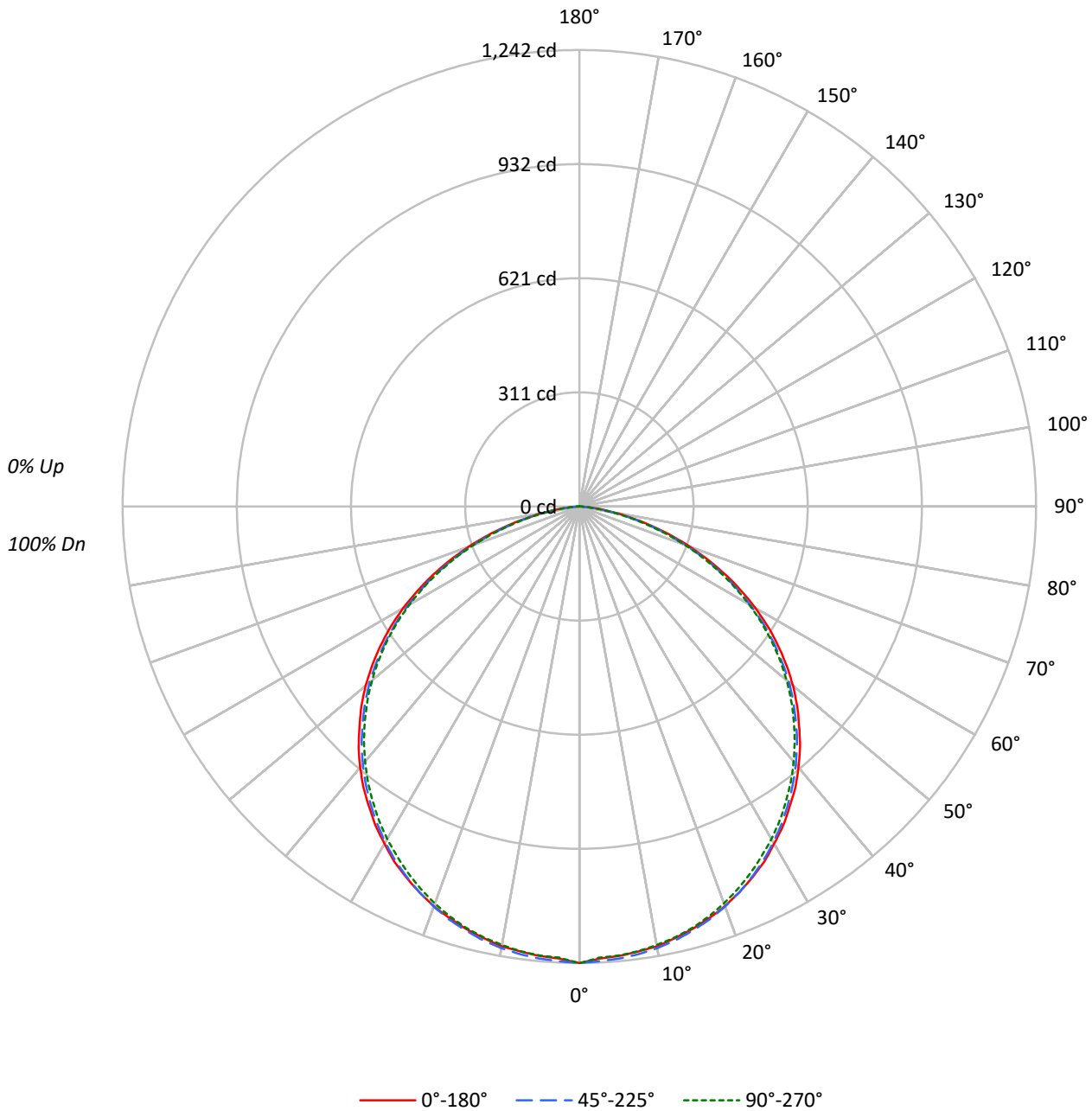
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3476.9 lumens
Efficiency: N/A
Efficacy: 109.7 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): 31.7
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: P973385
CATALOG NUMBER: FLR2-14-42-L835-CP375

Luminous Intensity Polar Plot





TEST NUMBER: P973385
 CATALOG NUMBER: FLR2-14-42-L835-CP375

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°	3343	3343	3343
5°	3317	3336	3313
10°	3320	3334	3310
15°	3315	3327	3307
20°	3314	3317	3291
25°	3307	3301	3270
30°	3293	3278	3246
35°	3275	3250	3218
40°	3257	3217	3184
45°	3217	3172	3138
50°	3175	3117	3080
55°	3095	3023	2994
60°	2975	2892	2867
65°	2786	2704	2675
70°	2512	2412	2391
75°	2106	1999	1978
80°	1530	1426	1387
85°	809	713	651

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3217 cd/sqm



TEST NUMBER: P973385
 CATALOG NUMBER: FLR2-14-42-L835-CP375

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	3.4
10°-20°	337.9	9.7
20°-30°	513.4	14.8
30°-40°	621.0	17.9
40°-50°	645.4	18.6
50°-60°	577.8	16.6
60°-70°	421.5	12.1
70°-80°	207.5	6.0
80°-90°	34.7	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°	968.9	27.9
0°-40°	1589.9	45.7
0°-60°	2813.2	80.9
0°-90°	3476.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3476.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1242	1242	1242	1242	1242	
5°	1228	1241	1235	1247	1226	117
15°	1190	1201	1194	1205	1187	336
25°	1114	1119	1112	1117	1101	513
35°	997	999	989	993	980	624
45°	845	844	834	835	825	653
55°	660	654	644	643	638	589
65°	438	432	425	422	420	432
75°	203	199	192	190	190	216
85°	26	25	23	21	21	38
90°	0	0	0	0	0	



TEST NUMBER: P973385
 CATALOG NUMBER: FLR2-14-42-L835-CP375

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1242.3	1242.3	1242.3	1242.3	1242.3
2.5°	1231.5	1245.3	1238.7	1251.0	1228.9
5°	1227.9	1241.2	1235.1	1246.9	1226.3
7.5°	1221.7	1235.6	1228.9	1240.2	1220.7
10°	1215.0	1227.3	1220.1	1231.5	1211.4
12.5°	1203.2	1215.5	1208.8	1219.1	1200.6
15°	1189.8	1200.6	1194.4	1204.7	1187.2
17.5°	1174.4	1184.7	1178.0	1187.2	1169.8
20°	1157.4	1165.6	1158.4	1166.2	1149.2
22.5°	1136.3	1144.0	1136.3	1141.5	1126.6
25°	1113.7	1119.4	1111.7	1116.8	1101.4
27.5°	1089.5	1092.6	1084.9	1089.0	1073.1
30°	1059.7	1063.3	1055.1	1060.2	1044.8
32.5°	1030.9	1033.0	1023.7	1027.8	1014.0
35°	997.0	999.1	989.3	993.4	979.5
37.5°	964.6	964.1	953.8	956.4	944.5
40°	927.1	926.6	915.8	917.8	906.5
42.5°	888.5	886.4	876.2	877.2	866.9
45°	845.3	844.3	833.5	835.0	824.7
47.5°	803.7	800.6	789.8	790.3	781.6
50°	758.4	753.8	744.5	743.5	735.8
52.5°	710.1	704.9	694.7	693.6	688.0
55°	659.7	654.0	644.3	642.7	638.1
57.5°	607.8	600.6	592.8	589.8	586.2
60°	552.7	546.1	537.3	534.2	532.7
62.5°	495.7	489.0	482.3	479.2	477.2
65°	437.6	432.4	424.7	421.6	420.1
67.5°	378.4	373.8	366.6	363.0	362.5
70°	319.3	314.7	306.5	304.4	303.9
72.5°	260.2	256.1	248.3	246.3	246.3
75°	202.6	199.0	192.3	190.2	190.2
77.5°	148.1	145.0	139.9	137.3	137.3
80°	98.7	96.7	92.0	90.0	89.5
82.5°	57.1	56.0	51.9	49.9	50.9
85°	26.2	25.2	23.1	20.6	21.1
87.5°	6.7	6.2	4.6	3.6	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)