

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: P974219

Luminaire Tested: FLR2-24-35-L835-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974219
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-35-L835-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L835-CA125
Ballast/Driver: -

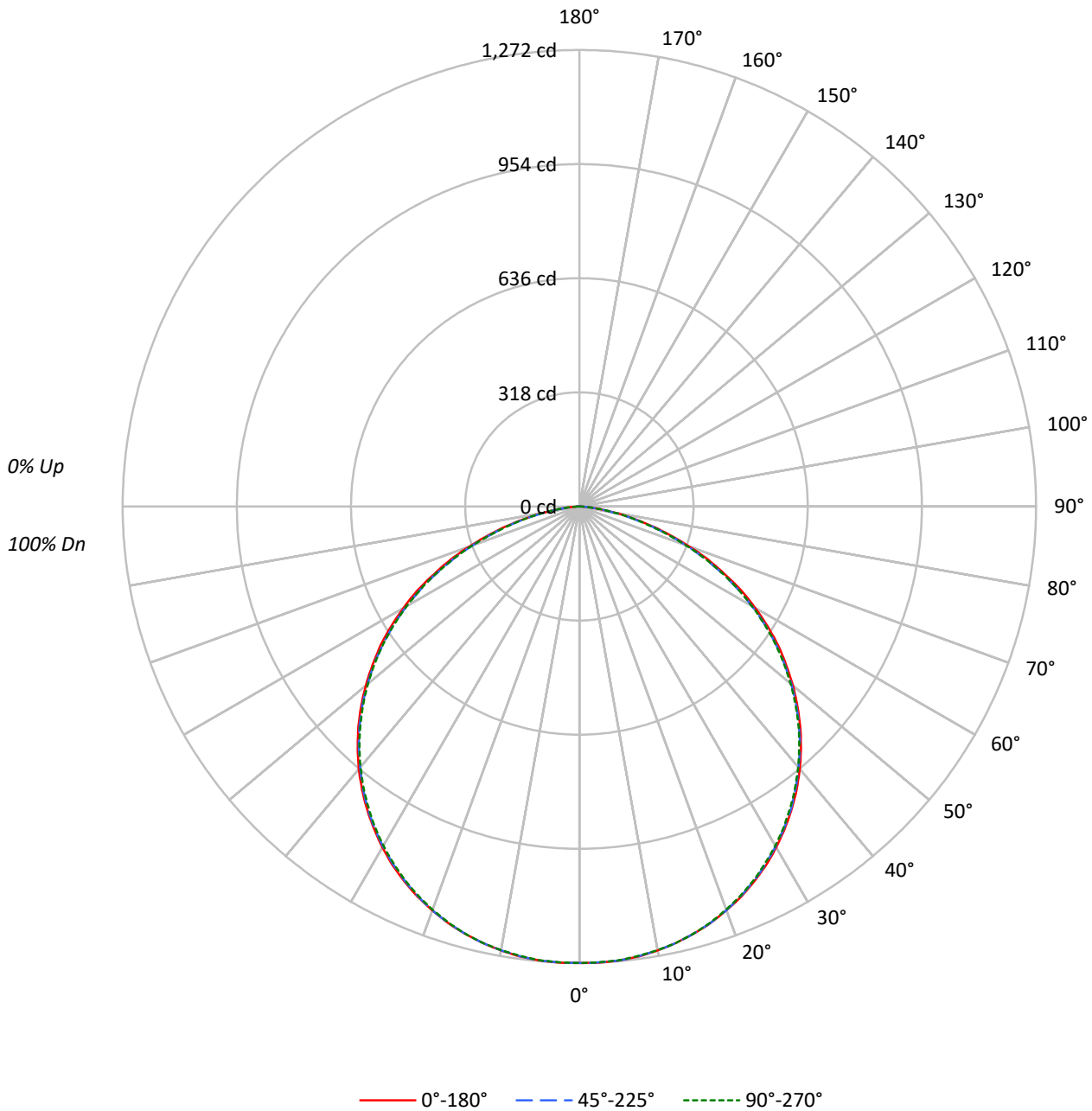
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3595.9 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.4
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: P974219
CATALOG NUMBER: FLR2-24-35-L835-CA125

Luminous Intensity Polar Plot





TEST NUMBER: P974219
 CATALOG NUMBER: FLR2-24-35-L835-CA125

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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	89	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	57	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44						44														
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38						38														
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	39	33	29	27						27														
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25						25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1712	1712	1712
5°	1715	1715	1714
10°	1716	1716	1715
15°	1717	1716	1716
20°	1715	1714	1712
25°	1712	1708	1706
30°	1704	1699	1696
35°	1693	1689	1683
40°	1678	1668	1665
45°	1657	1647	1642
50°	1625	1613	1608
55°	1587	1565	1562
60°	1521	1494	1494
65°	1423	1389	1394
70°	1281	1241	1237
75°	1075	1032	1028
80°	785	746	778
85°	445	409	415

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1657 cd/sqm



TEST NUMBER: P974219
 CATALOG NUMBER: FLR2-24-35-L835-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	3.4
10°-20°	347.9	9.7
20°-30°	530.4	14.8
30°-40°	642.7	17.9
40°-50°	667.6	18.6
50°-60°	597.2	16.6
60°-70°	435.2	12.1
70°-80°	215.5	6.0
80°-90°	38.5	1.1
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°	999.1	27.8
0°-40°	1641.8	45.7
0°-60°	2906.5	80.8
0°-90°	3595.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3595.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1272	1272	1272	1272	1272	
5°	1270	1270	1270	1270	1269	121
15°	1233	1232	1232	1233	1232	348
25°	1153	1152	1151	1150	1149	531
35°	1031	1029	1028	1026	1024	645
45°	871	869	866	864	863	671
55°	676	672	667	667	666	603
65°	447	443	436	438	438	443
75°	207	204	199	202	198	220
85°	29	26	26	27	27	40
90°	0	0	0	0	0	



TEST NUMBER: P974219
 CATALOG NUMBER: FLR2-24-35-L835-CA125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1272.3	1272.3	1272.3	1272.3	1272.3
2.5°	1272.3	1271.8	1271.8	1272.3	1271.4
5°	1270.0	1270.5	1270.0	1270.0	1269.1
7.5°	1265.0	1264.5	1264.1	1264.5	1263.1
10°	1256.3	1256.3	1255.8	1256.3	1255.4
12.5°	1245.8	1245.8	1245.8	1246.3	1245.8
15°	1232.6	1232.1	1232.1	1233.0	1232.1
17.5°	1217.0	1216.6	1216.6	1216.1	1215.2
20°	1197.9	1197.9	1197.4	1197.0	1195.6
22.5°	1177.3	1176.9	1175.5	1175.5	1173.7
25°	1153.1	1151.8	1150.8	1150.4	1149.0
27.5°	1126.7	1124.8	1123.5	1122.5	1121.2
30°	1097.0	1095.2	1093.8	1092.4	1091.5
32.5°	1065.0	1064.1	1061.8	1061.4	1059.5
35°	1030.8	1029.4	1028.0	1026.2	1024.4
37.5°	994.3	992.9	989.7	988.8	987.4
40°	955.5	953.6	949.5	949.5	948.2
42.5°	913.9	912.1	909.4	907.5	906.6
45°	870.6	868.7	865.5	863.7	862.8
47.5°	824.4	823.1	819.4	818.1	816.7
50°	776.5	774.7	770.6	769.7	768.3
52.5°	726.3	725.4	719.9	719.5	718.1
55°	676.5	671.5	667.0	667.0	666.0
57.5°	621.8	618.1	612.2	612.2	611.3
60°	565.2	562.0	555.1	556.0	555.1
62.5°	509.9	503.1	496.7	499.4	497.1
65°	446.9	443.3	436.4	438.2	437.8
67.5°	389.4	382.6	376.2	379.8	378.0
70°	325.5	321.8	315.4	319.1	314.5
72.5°	265.2	262.0	255.6	259.8	255.2
75°	206.8	203.6	198.6	202.2	197.7
77.5°	151.6	149.3	144.7	148.4	149.3
80°	101.3	98.6	96.3	99.5	100.4
82.5°	59.3	57.5	56.6	57.1	59.3
85°	28.8	26.5	26.5	26.9	26.9
87.5°	7.8	6.8	7.8	8.2	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)