

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: P974203

Luminaire Tested: FLR2-24-35-L835-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974203
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-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L835-CP375
Ballast/Driver: -

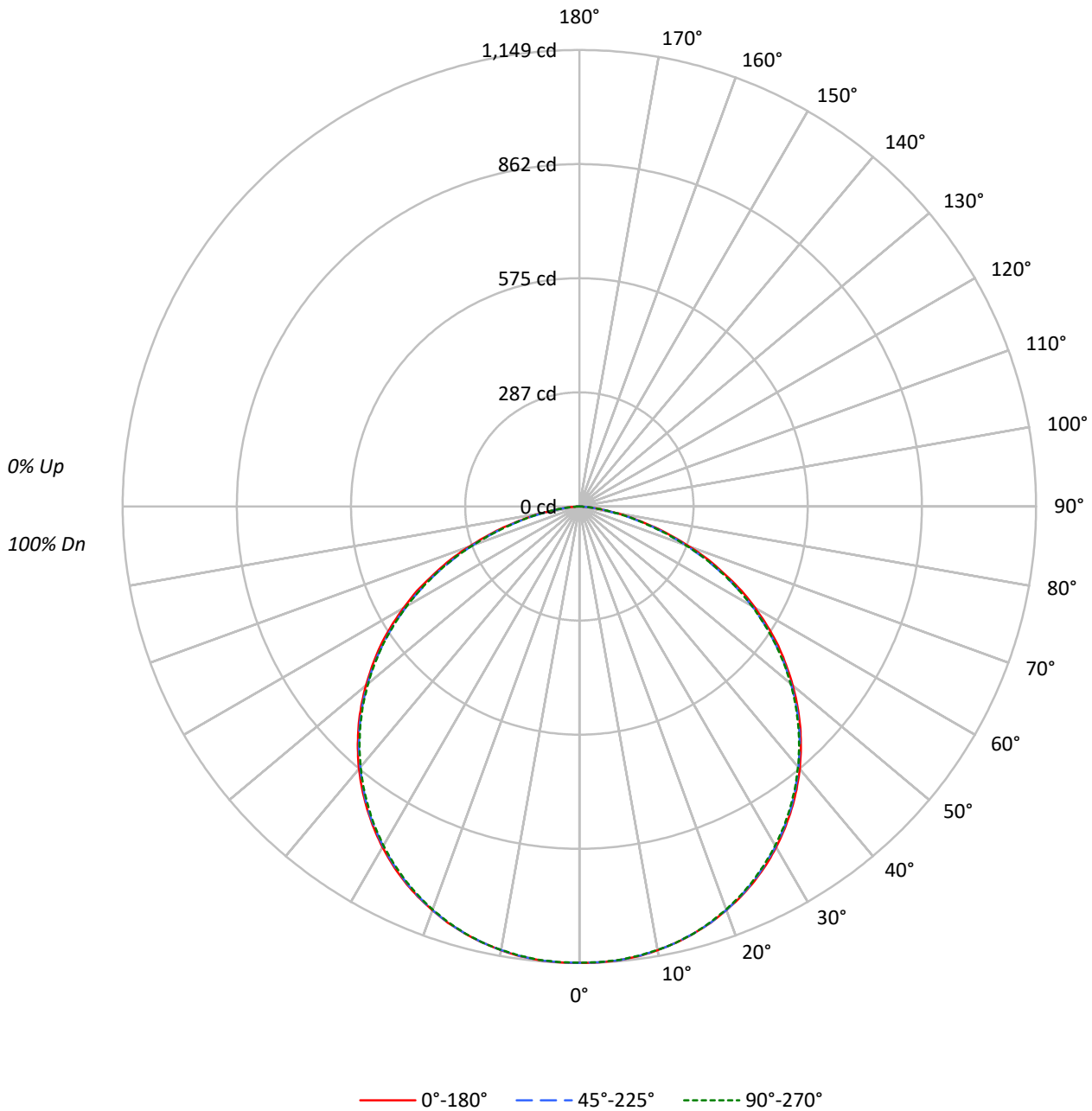
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3246.6 lumens
Efficiency: N/A
Efficacy: 114.3 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: P974203
CATALOG NUMBER: FLR2-24-35-L835-CP375

Luminous Intensity Polar Plot





TEST NUMBER: P974203
 CATALOG NUMBER: FLR2-24-35-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	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°	1546	1546	1546
5°	1549	1549	1548
10°	1550	1549	1549
15°	1550	1550	1550
20°	1549	1548	1546
25°	1546	1543	1540
30°	1539	1534	1531
35°	1529	1525	1519
40°	1515	1506	1504
45°	1496	1487	1482
50°	1468	1456	1452
55°	1433	1413	1411
60°	1373	1349	1349
65°	1285	1254	1259
70°	1156	1120	1117
75°	971	932	928
80°	709	674	703
85°	401	369	375

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1496 cd/sqm



TEST NUMBER: P974203
 CATALOG NUMBER: FLR2-24-35-L835-CP375

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	3.4
10°-20°	314.1	9.7
20°-30°	478.9	14.8
30°-40°	580.3	17.9
40°-50°	602.7	18.6
50°-60°	539.2	16.6
60°-70°	393.0	12.1
70°-80°	194.6	6.0
80°-90°	34.8	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°	902.1	27.8
0°-40°	1482.3	45.7
0°-60°	2624.3	80.8
0°-90°	3246.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3246.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1149	1149	1149	1149	1149	
5°	1147	1147	1147	1147	1146	109
15°	1113	1112	1112	1113	1112	314
25°	1041	1040	1039	1039	1037	480
35°	931	930	928	927	925	582
45°	786	784	782	780	779	606
55°	611	606	602	602	601	544
65°	404	400	394	396	395	400
75°	187	184	179	183	178	199
85°	26	24	24	24	24	36
90°	0	0	0	0	0	



TEST NUMBER: P974203
 CATALOG NUMBER: FLR2-24-35-L835-CP375

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1148.7	1148.7	1148.7	1148.7	1148.7
2.5°	1148.7	1148.3	1148.3	1148.7	1147.9
5°	1146.7	1147.1	1146.7	1146.7	1145.8
7.5°	1142.1	1141.7	1141.3	1141.7	1140.5
10°	1134.3	1134.3	1133.9	1134.3	1133.5
12.5°	1124.8	1124.8	1124.8	1125.2	1124.8
15°	1112.9	1112.5	1112.5	1113.3	1112.5
17.5°	1098.9	1098.4	1098.4	1098.0	1097.2
20°	1081.5	1081.5	1081.1	1080.7	1079.5
22.5°	1063.0	1062.6	1061.3	1061.3	1059.7
25°	1041.2	1039.9	1039.1	1038.7	1037.4
27.5°	1017.2	1015.6	1014.4	1013.5	1012.3
30°	990.5	988.8	987.6	986.3	985.5
32.5°	961.6	960.8	958.7	958.3	956.7
35°	930.7	929.5	928.2	926.6	924.9
37.5°	897.7	896.5	893.6	892.8	891.5
40°	862.7	861.0	857.3	857.3	856.1
42.5°	825.2	823.5	821.0	819.4	818.6
45°	786.0	784.4	781.5	779.8	779.0
47.5°	744.4	743.1	739.9	738.6	737.4
50°	701.1	699.5	695.7	694.9	693.7
52.5°	655.8	654.9	650.0	649.6	648.3
55°	610.8	606.3	602.2	602.2	601.4
57.5°	561.4	558.1	552.7	552.7	551.9
60°	510.3	507.4	501.2	502.0	501.2
62.5°	460.4	454.2	448.4	450.9	448.9
65°	403.5	400.2	394.0	395.7	395.3
67.5°	351.6	345.4	339.6	342.9	341.3
70°	293.9	290.6	284.8	288.1	284.0
72.5°	239.5	236.6	230.8	234.5	230.4
75°	186.7	183.8	179.3	182.6	178.5
77.5°	136.8	134.8	130.7	134.0	134.8
80°	91.5	89.0	87.0	89.9	90.7
82.5°	53.6	51.9	51.1	51.5	53.6
85°	26.0	23.9	23.9	24.3	24.3
87.5°	7.0	6.2	7.0	7.4	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)