

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: P974196

Luminaire Tested: FLR2-24-40-L835-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974196
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: FLR2-24-40-L835-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L835-CP250
Ballast/Driver: -

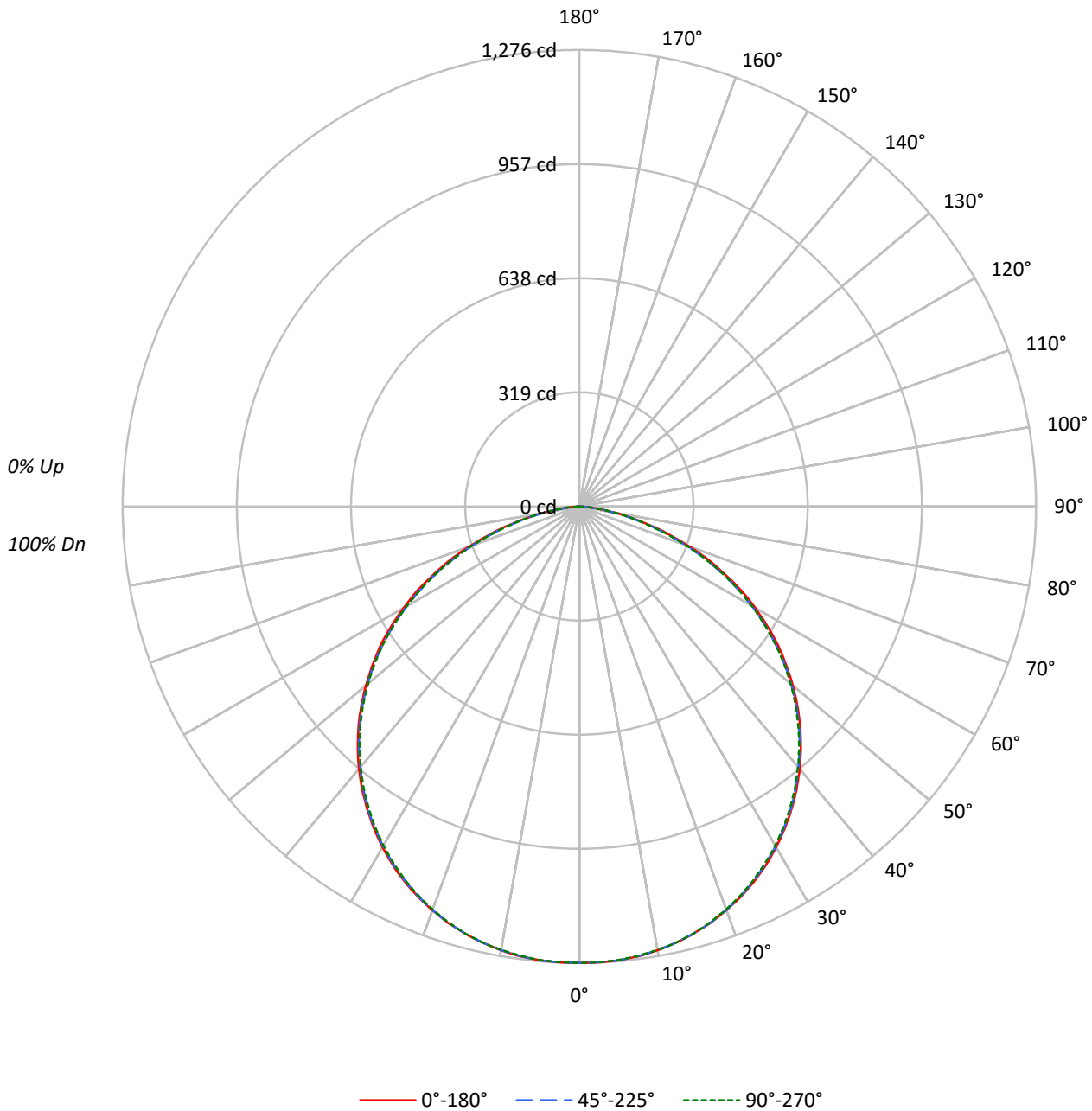
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3605.5 lumens
Efficiency: N/A
Efficacy: 119.0 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): 30.3
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: P974196
CATALOG NUMBER: FLR2-24-40-L835-CP250

Luminous Intensity Polar Plot





TEST NUMBER: P974196
 CATALOG NUMBER: FLR2-24-40-L835-CP250

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1716	1716	1716
5°	1720	1720	1719
10°	1721	1720	1720
15°	1722	1721	1721
20°	1720	1719	1716
25°	1716	1713	1710
30°	1709	1704	1700
35°	1698	1693	1687
40°	1683	1672	1670
45°	1661	1651	1646
50°	1630	1617	1613
55°	1591	1569	1567
60°	1525	1498	1498
65°	1427	1393	1398
70°	1284	1244	1241
75°	1078	1035	1030
80°	787	748	780
85°	445	409	417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1661 cd/sqm



TEST NUMBER: P974196
 CATALOG NUMBER: FLR2-24-40-L835-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.1	3.4
10°-20°	348.8	9.7
20°-30°	531.9	14.8
30°-40°	644.4	17.9
40°-50°	669.4	18.6
50°-60°	598.8	16.6
60°-70°	436.4	12.1
70°-80°	216.1	6.0
80°-90°	38.6	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°	1001.8	27.8
0°-40°	1646.2	45.7
0°-60°	2914.3	80.8
0°-90°	3605.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3605.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1276	1276	1276	1276	1276	
5°	1273	1274	1273	1273	1272	121
15°	1236	1235	1235	1236	1235	349
25°	1156	1155	1154	1154	1152	533
35°	1034	1032	1031	1029	1027	646
45°	873	871	868	866	865	673
55°	678	673	669	669	668	604
65°	448	444	438	439	439	444
75°	207	204	199	203	198	221
85°	29	26	26	27	27	40
90°	0	0	0	0	0	



TEST NUMBER: P974196
 CATALOG NUMBER: FLR2-24-40-L835-CP250

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1275.7	1275.7	1275.7	1275.7	1275.7
2.5°	1275.7	1275.2	1275.2	1275.7	1274.8
5°	1273.4	1273.9	1273.4	1273.4	1272.5
7.5°	1268.4	1267.9	1267.4	1267.9	1266.5
10°	1259.7	1259.7	1259.2	1259.7	1258.7
12.5°	1249.1	1249.1	1249.1	1249.6	1249.1
15°	1235.9	1235.4	1235.4	1236.3	1235.4
17.5°	1220.3	1219.8	1219.8	1219.4	1218.5
20°	1201.1	1201.1	1200.6	1200.2	1198.8
22.5°	1180.5	1180.0	1178.6	1178.6	1176.8
25°	1156.2	1154.8	1153.9	1153.5	1152.1
27.5°	1129.7	1127.8	1126.5	1125.6	1124.2
30°	1099.9	1098.1	1096.7	1095.3	1094.4
32.5°	1067.9	1067.0	1064.7	1064.2	1062.4
35°	1033.5	1032.2	1030.8	1029.0	1027.1
37.5°	996.9	995.6	992.4	991.4	990.1
40°	958.0	956.2	952.1	952.1	950.7
42.5°	916.4	914.5	911.8	910.0	909.0
45°	872.9	871.1	867.9	866.0	865.1
47.5°	826.7	825.3	821.6	820.2	818.9
50°	778.6	776.8	772.6	771.7	770.4
52.5°	728.2	727.3	721.8	721.4	720.0
55°	678.4	673.3	668.7	668.7	667.8
57.5°	623.4	619.8	613.8	613.8	612.9
60°	566.7	563.5	556.6	557.5	556.6
62.5°	511.3	504.4	498.0	500.8	498.5
65°	448.1	444.5	437.6	439.4	439.0
67.5°	390.4	383.6	377.2	380.8	379.0
70°	326.4	322.7	316.3	320.0	315.4
72.5°	265.9	262.7	256.3	260.4	255.9
75°	207.4	204.1	199.1	202.8	198.2
77.5°	152.0	149.7	145.1	148.8	149.7
80°	101.6	98.9	96.6	99.8	100.7
82.5°	59.5	57.7	56.8	57.2	59.5
85°	28.8	26.5	26.5	27.0	27.0
87.5°	7.8	6.9	7.8	8.2	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)