

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: P974379

Luminaire Tested: FLR2-24-35-L940-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974379
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-L940-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L940-CA080
Ballast/Driver: -

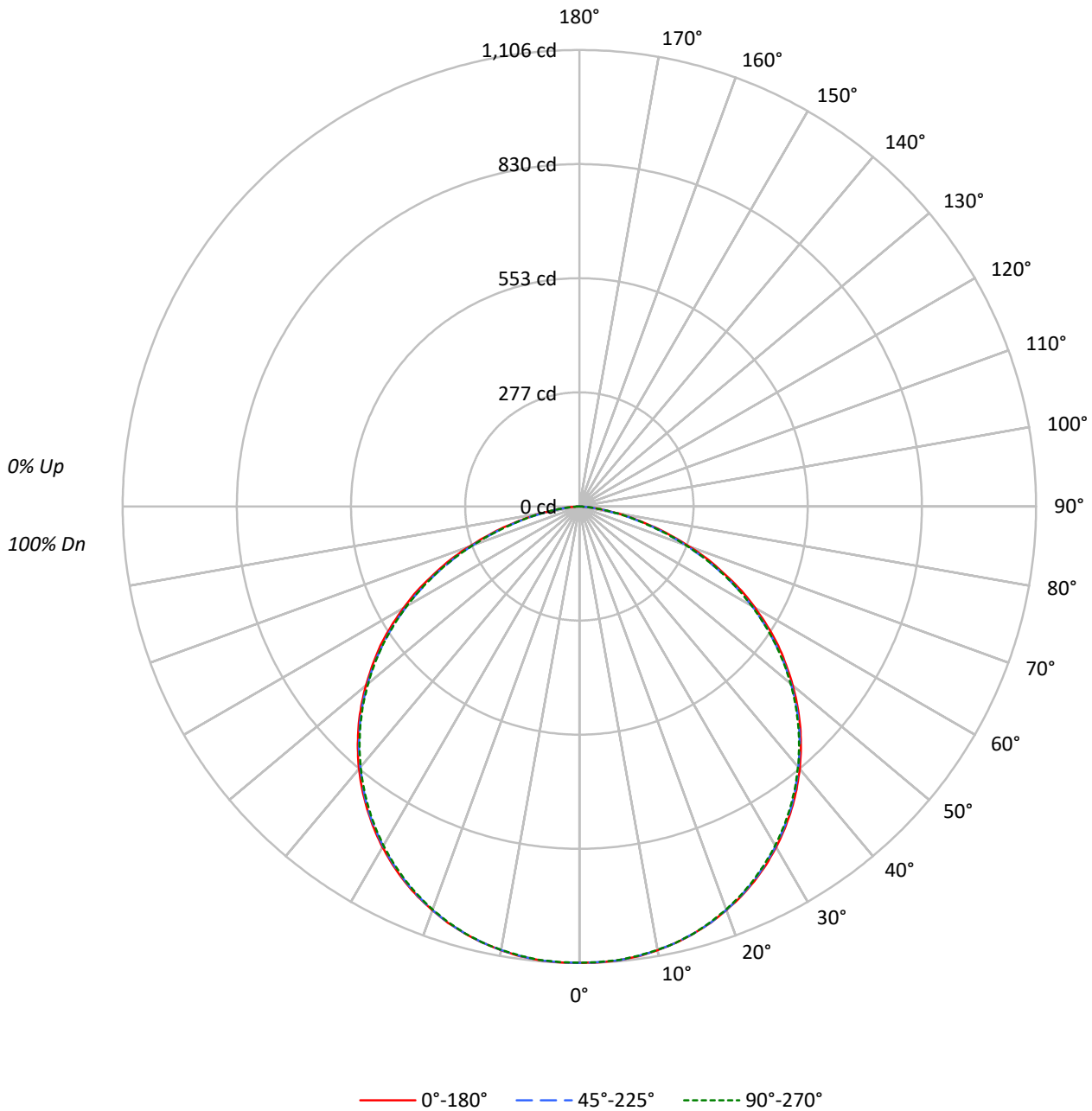
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3125.0 lumens
Efficiency: N/A
Efficacy: 110.0 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): 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: P974379
CATALOG NUMBER: FLR2-24-35-L940-CA080

Luminous Intensity Polar Plot





TEST NUMBER: P974379
 CATALOG NUMBER: FLR2-24-35-L940-CA080

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	1488	1488	1488
5°	1491	1491	1490
10°	1492	1491	1491
15°	1492	1492	1492
20°	1491	1490	1488
25°	1488	1485	1483
30°	1481	1477	1474
35°	1471	1467	1462
40°	1459	1449	1447
45°	1440	1431	1427
50°	1412	1402	1398
55°	1379	1360	1358
60°	1322	1298	1298
65°	1237	1208	1211
70°	1113	1078	1075
75°	934	897	893
80°	683	649	676
85°	386	355	361

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1440 cd/sqm



TEST NUMBER: P974379
 CATALOG NUMBER: FLR2-24-35-L940-CA080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	3.4
10°-20°	302.4	9.7
20°-30°	461.0	14.8
30°-40°	558.5	17.9
40°-50°	580.2	18.6
50°-60°	519.0	16.6
60°-70°	378.2	12.1
70°-80°	187.3	6.0
80°-90°	33.5	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°	868.3	27.8
0°-40°	1426.8	45.7
0°-60°	2526.0	80.8
0°-90°	3125.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3125.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1106	1106	1106	1106	1106	
5°	1104	1104	1104	1104	1103	105
15°	1071	1071	1071	1072	1071	302
25°	1002	1001	1000	1000	999	462
35°	896	895	893	892	890	560
45°	757	755	752	751	750	583
55°	588	584	580	580	579	524
65°	388	385	379	381	380	385
75°	180	177	173	176	172	192
85°	25	23	23	23	23	35
90°	0	0	0	0	0	



TEST NUMBER: P974379
 CATALOG NUMBER: FLR2-24-35-L940-CA080

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1105.7	1105.7	1105.7	1105.7	1105.7
2.5°	1105.7	1105.3	1105.3	1105.7	1104.9
5°	1103.7	1104.1	1103.7	1103.7	1102.9
7.5°	1099.3	1098.9	1098.5	1098.9	1097.8
10°	1091.8	1091.8	1091.4	1091.8	1091.0
12.5°	1082.7	1082.7	1082.7	1083.1	1082.7
15°	1071.2	1070.8	1070.8	1071.6	1070.8
17.5°	1057.7	1057.3	1057.3	1056.9	1056.1
20°	1041.0	1041.0	1040.6	1040.2	1039.0
22.5°	1023.2	1022.8	1021.6	1021.6	1020.0
25°	1002.1	1001.0	1000.2	999.8	998.6
27.5°	979.1	977.5	976.4	975.6	974.4
30°	953.3	951.8	950.6	949.4	948.6
32.5°	925.6	924.8	922.8	922.4	920.8
35°	895.8	894.6	893.4	891.9	890.3
37.5°	864.1	862.9	860.1	859.3	858.1
40°	830.4	828.8	825.2	825.2	824.0
42.5°	794.3	792.7	790.3	788.7	787.9
45°	756.6	755.0	752.2	750.6	749.8
47.5°	716.5	715.3	712.1	710.9	709.8
50°	674.8	673.3	669.7	668.9	667.7
52.5°	631.2	630.4	625.6	625.2	624.1
55°	588.0	583.6	579.6	579.6	578.8
57.5°	540.3	537.2	532.0	532.0	531.2
60°	491.2	488.4	482.4	483.2	482.4
62.5°	443.1	437.2	431.6	434.0	432.0
65°	388.4	385.2	379.3	380.9	380.5
67.5°	338.4	332.5	326.9	330.1	328.5
70°	282.9	279.7	274.1	277.3	273.3
72.5°	230.5	227.7	222.2	225.7	221.8
75°	179.7	176.9	172.6	175.8	171.8
77.5°	131.7	129.7	125.8	128.9	129.7
80°	88.1	85.7	83.7	86.5	87.3
82.5°	51.6	50.0	49.2	49.6	51.6
85°	25.0	23.0	23.0	23.4	23.4
87.5°	6.7	6.0	6.7	7.1	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)