

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: P974188

Luminaire Tested: FLR2-24-40-L835-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974188
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L835-CP187
Ballast/Driver: -

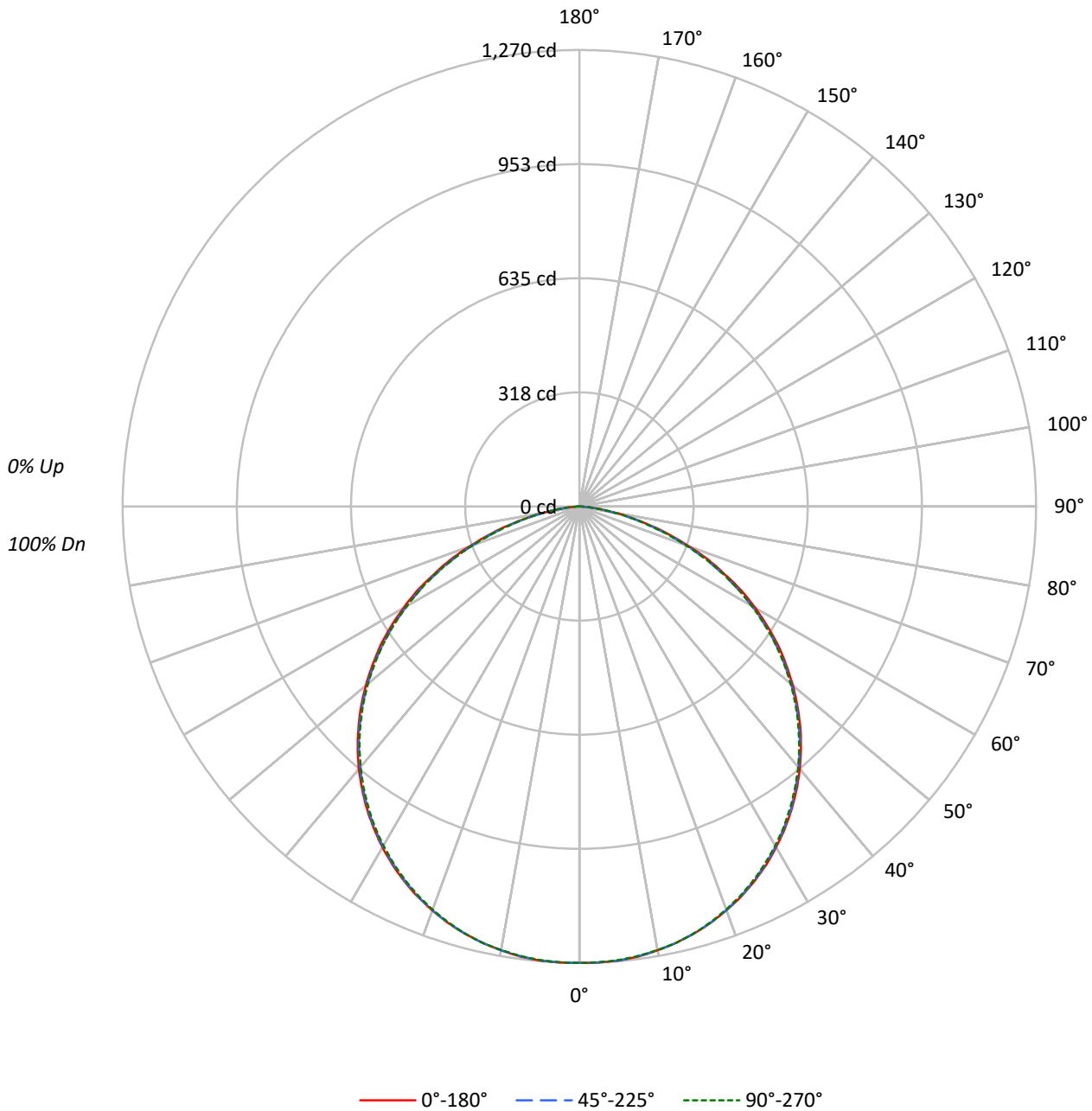
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3589.6 lumens
Efficiency: N/A
Efficacy: 118.5 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

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Luminous Intensity Polar Plot





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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°	1709	1709	1709
5°	1712	1712	1711
10°	1713	1713	1712
15°	1714	1713	1713
20°	1712	1711	1709
25°	1709	1705	1703
30°	1701	1696	1693
35°	1690	1686	1680
40°	1675	1665	1662
45°	1654	1644	1639
50°	1623	1610	1605
55°	1584	1562	1560
60°	1518	1491	1491
65°	1420	1387	1391
70°	1278	1239	1235
75°	1073	1030	1026
80°	784	745	777
85°	443	408	415

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1654 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	3.4
10°-20°	347.3	9.7
20°-30°	529.5	14.8
30°-40°	641.6	17.9
40°-50°	666.4	18.6
50°-60°	596.1	16.6
60°-70°	434.5	12.1
70°-80°	215.2	6.0
80°-90°	38.4	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°	997.4	27.8
0°-40°	1638.9	45.7
0°-60°	2901.5	80.8
0°-90°	3589.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3589.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1268	1268	1268	1268	1267	121
15°	1230	1230	1230	1231	1230	347
25°	1151	1150	1149	1148	1147	531
35°	1029	1028	1026	1024	1023	644
45°	869	867	864	862	861	670
55°	675	670	666	666	665	602
65°	446	442	436	438	437	442
75°	206	203	198	202	197	220
85°	29	26	26	27	27	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1270.1	1270.1	1270.1	1270.1	1270.1
2.5°	1270.1	1269.6	1269.6	1270.1	1269.1
5°	1267.8	1268.2	1267.8	1267.8	1266.9
7.5°	1262.8	1262.3	1261.9	1262.3	1260.9
10°	1254.1	1254.1	1253.7	1254.1	1253.2
12.5°	1243.6	1243.6	1243.6	1244.1	1243.6
15°	1230.4	1230.0	1230.0	1230.9	1230.0
17.5°	1214.9	1214.5	1214.5	1214.0	1213.1
20°	1195.8	1195.8	1195.3	1194.9	1193.5
22.5°	1175.3	1174.8	1173.5	1173.5	1171.6
25°	1151.1	1149.8	1148.8	1148.4	1147.0
27.5°	1124.7	1122.9	1121.5	1120.6	1119.2
30°	1095.1	1093.2	1091.9	1090.5	1089.6
32.5°	1063.2	1062.3	1060.0	1059.5	1057.7
35°	1029.0	1027.6	1026.3	1024.4	1022.6
37.5°	992.5	991.2	988.0	987.1	985.7
40°	953.8	952.0	947.9	947.9	946.5
42.5°	912.3	910.5	907.8	905.9	905.0
45°	869.0	867.2	864.0	862.2	861.3
47.5°	823.0	821.6	818.0	816.6	815.3
50°	775.2	773.3	769.2	768.3	767.0
52.5°	725.0	724.1	718.7	718.2	716.8
55°	675.4	670.3	665.8	665.8	664.9
57.5°	620.7	617.0	611.1	611.1	610.2
60°	564.2	561.0	554.1	555.1	554.1
62.5°	509.0	502.2	495.8	498.5	496.3
65°	446.1	442.5	435.7	437.5	437.0
67.5°	388.7	381.9	375.5	379.1	377.3
70°	324.9	321.3	314.9	318.5	314.0
72.5°	264.8	261.6	255.2	259.3	254.7
75°	206.4	203.2	198.2	201.9	197.3
77.5°	151.3	149.0	144.5	148.1	149.0
80°	101.2	98.4	96.2	99.3	100.3
82.5°	59.2	57.4	56.5	57.0	59.2
85°	28.7	26.4	26.4	26.9	26.9
87.5°	7.7	6.8	7.7	8.2	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)