

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: P974387

Luminaire Tested: FLR2-24-35-L940-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974387
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L940-CA125
Ballast/Driver: -

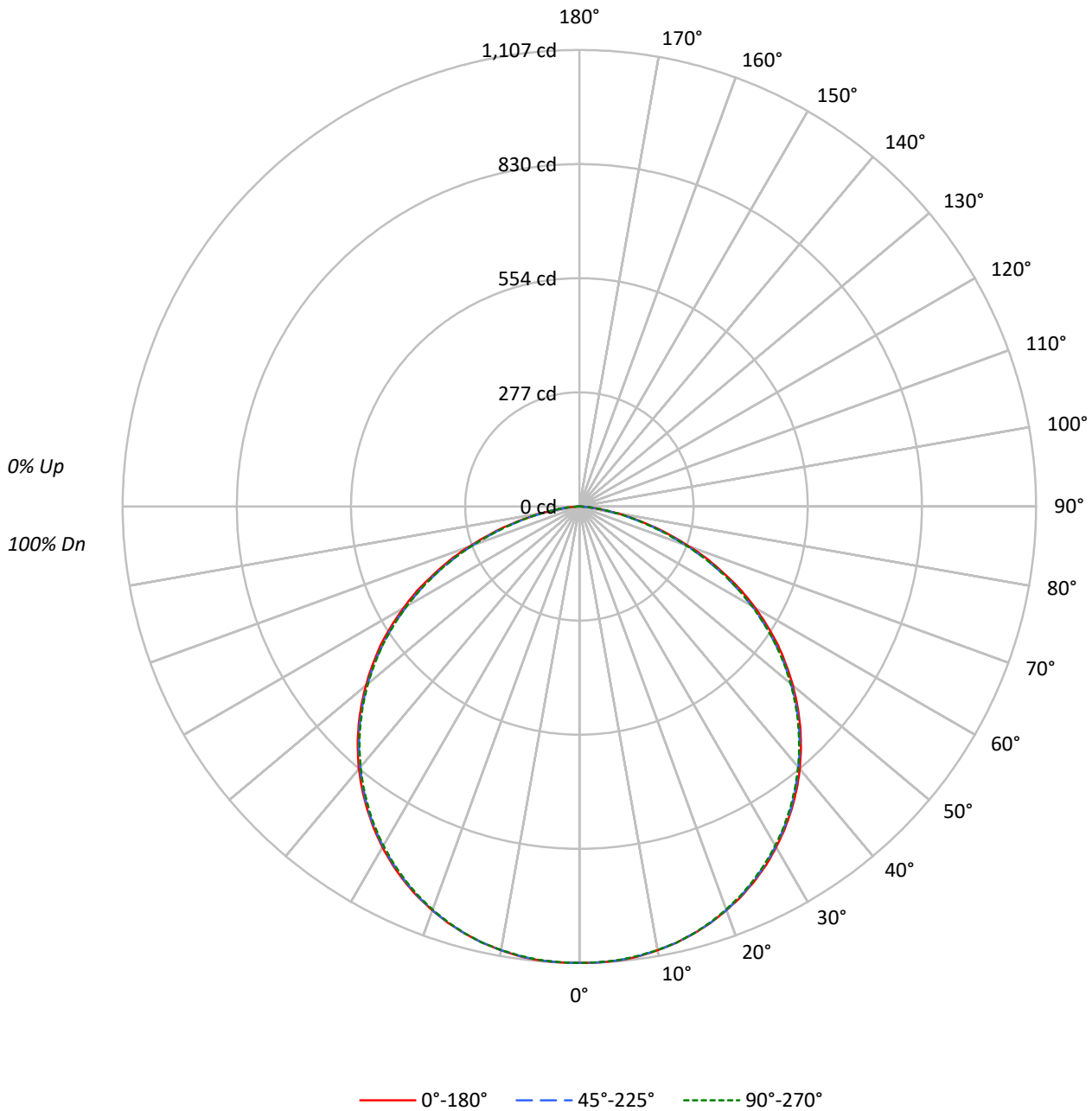
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3128.4 lumens
Efficiency: N/A
Efficacy: 110.2 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

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Luminous Intensity Polar Plot





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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°	1489	1489	1489
5°	1492	1492	1491
10°	1493	1493	1492
15°	1494	1493	1493
20°	1492	1492	1489
25°	1489	1486	1484
30°	1483	1478	1475
35°	1473	1469	1464
40°	1460	1451	1449
45°	1441	1433	1428
50°	1414	1403	1399
55°	1381	1361	1359
60°	1323	1299	1299
65°	1238	1209	1213
70°	1114	1079	1076
75°	935	898	894
80°	683	649	677
85°	386	355	361

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1441 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	3.4
10°-20°	302.7	9.7
20°-30°	461.5	14.8
30°-40°	559.1	17.9
40°-50°	580.8	18.6
50°-60°	519.5	16.6
60°-70°	378.7	12.1
70°-80°	187.5	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°	869.2	27.8
0°-40°	1428.3	45.7
0°-60°	2528.7	80.8
0°-90°	3128.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3128.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1107	1107	1107	1107	1107	
5°	1105	1105	1105	1105	1104	105
15°	1072	1072	1072	1073	1072	303
25°	1003	1002	1001	1001	1000	462
35°	897	896	894	893	891	561
45°	757	756	753	751	751	584
55°	589	584	580	580	580	524
65°	389	386	380	381	381	385
75°	180	177	173	176	172	192
85°	25	23	23	23	23	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1106.9	1106.9	1106.9	1106.9	1106.9
2.5°	1106.9	1106.5	1106.5	1106.9	1106.1
5°	1104.9	1105.3	1104.9	1104.9	1104.1
7.5°	1100.5	1100.1	1099.7	1100.1	1098.9
10°	1093.0	1093.0	1092.6	1093.0	1092.2
12.5°	1083.8	1083.8	1083.8	1084.2	1083.8
15°	1072.3	1071.9	1071.9	1072.7	1071.9
17.5°	1058.8	1058.4	1058.4	1058.0	1057.2
20°	1042.1	1042.1	1041.7	1041.4	1040.2
22.5°	1024.3	1023.9	1022.7	1022.7	1021.1
25°	1003.2	1002.0	1001.2	1000.8	999.6
27.5°	980.2	978.6	977.4	976.6	975.4
30°	954.4	952.8	951.6	950.4	949.6
32.5°	926.6	925.8	923.8	923.4	921.8
35°	896.8	895.6	894.4	892.8	891.2
37.5°	865.0	863.8	861.0	860.2	859.1
40°	831.3	829.7	826.1	826.1	824.9
42.5°	795.1	793.5	791.1	789.6	788.8
45°	757.4	755.8	753.0	751.4	750.6
47.5°	717.3	716.1	712.9	711.7	710.5
50°	675.6	674.0	670.4	669.6	668.4
52.5°	631.9	631.1	626.3	625.9	624.7
55°	588.6	584.2	580.2	580.2	579.5
57.5°	540.9	537.8	532.6	532.6	531.8
60°	491.7	488.9	482.9	483.7	482.9
62.5°	443.6	437.7	432.1	434.5	432.5
65°	388.8	385.6	379.7	381.3	380.9
67.5°	338.8	332.8	327.3	330.4	328.8
70°	283.2	280.0	274.4	277.6	273.6
72.5°	230.7	228.0	222.4	226.0	222.0
75°	179.9	177.1	172.8	175.9	172.0
77.5°	131.9	129.9	125.9	129.1	129.9
80°	88.2	85.8	83.8	86.6	87.4
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°	6.8	6.0	6.8	7.1	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)