

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: P974278

Luminaire Tested: FLR2-24-55-L935-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974278
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: FLR2-24-55-L935-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L935-CA125
Ballast/Driver: -

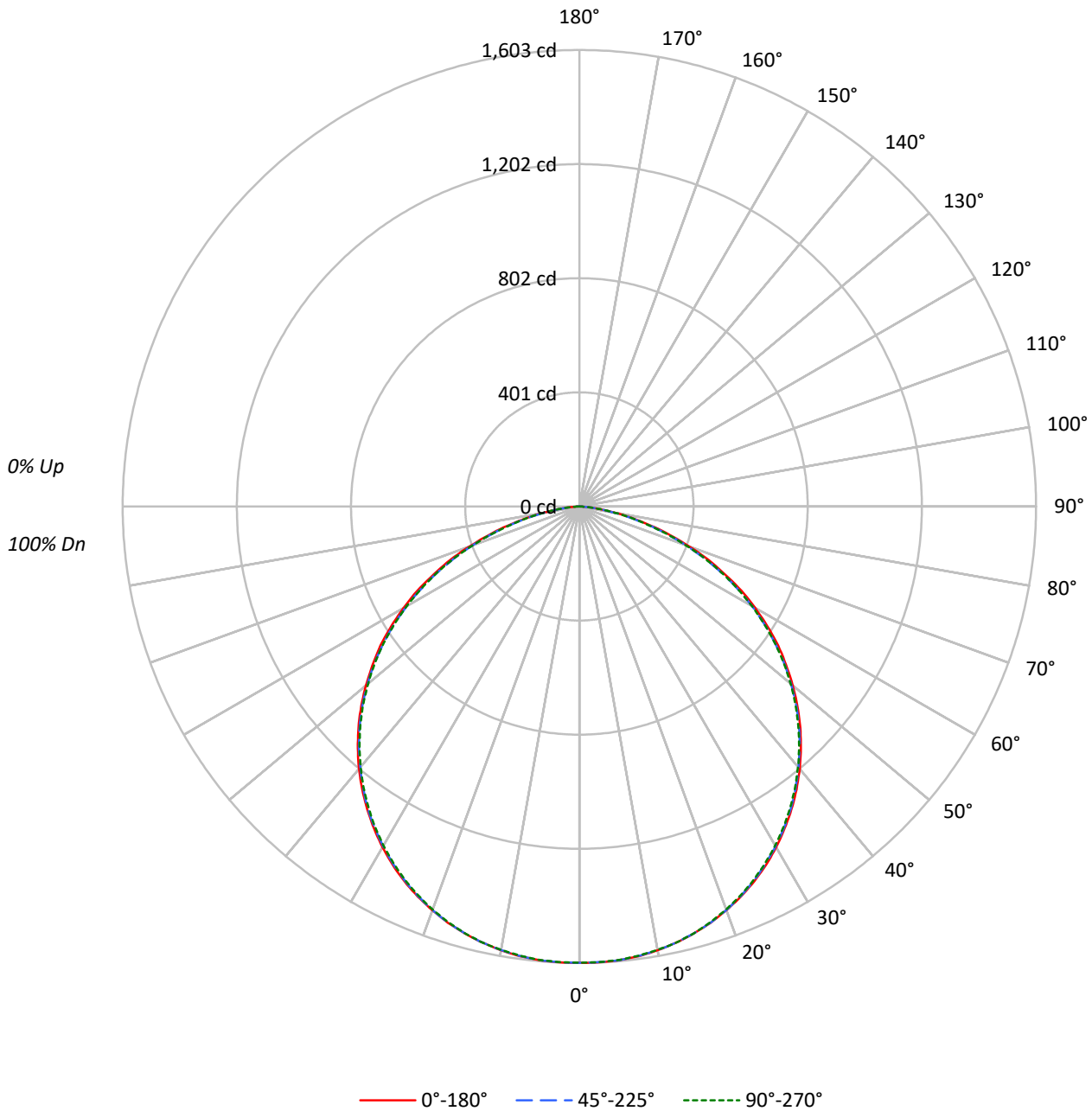
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4529.5 lumens
Efficiency: N/A
Efficacy: 102.7 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): 44.1
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°	2156	2156	2156
5°	2161	2161	2159
10°	2162	2161	2160
15°	2163	2162	2162
20°	2161	2160	2156
25°	2156	2152	2149
30°	2147	2141	2136
35°	2133	2127	2120
40°	2114	2101	2098
45°	2087	2075	2068
50°	2047	2032	2026
55°	1999	1971	1968
60°	1916	1882	1882
65°	1792	1750	1756
70°	1613	1563	1559
75°	1354	1300	1294
80°	989	940	980
85°	559	516	523

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2087 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.1	3.4
10°-20°	438.2	9.7
20°-30°	668.2	14.8
30°-40°	809.5	17.9
40°-50°	840.9	18.6
50°-60°	752.2	16.6
60°-70°	548.2	12.1
70°-80°	271.5	6.0
80°-90°	48.5	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°	1258.5	27.8
0°-40°	2068.1	45.7
0°-60°	3661.2	80.8
0°-90°	4529.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4529.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1603	1603	1603	1603	1603	
5°	1600	1600	1600	1600	1599	152
15°	1553	1552	1552	1553	1552	438
25°	1452	1451	1450	1449	1447	669
35°	1298	1297	1295	1293	1290	812
45°	1097	1094	1090	1088	1087	845
55°	852	846	840	840	839	759
65°	563	558	550	552	552	558
75°	260	256	250	255	249	278
85°	36	33	33	34	34	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1602.6	1602.6	1602.6	1602.6	1602.6
2.5°	1602.6	1602.0	1602.0	1602.6	1601.5
5°	1599.7	1600.3	1599.7	1599.7	1598.6
7.5°	1593.4	1592.8	1592.3	1592.8	1591.1
10°	1582.5	1582.5	1581.9	1582.5	1581.3
12.5°	1569.3	1569.3	1569.3	1569.8	1569.3
15°	1552.6	1552.0	1552.0	1553.2	1552.0
17.5°	1533.0	1532.5	1532.5	1531.9	1530.7
20°	1508.9	1508.9	1508.3	1507.7	1506.0
22.5°	1483.0	1482.4	1480.7	1480.7	1478.4
25°	1452.5	1450.8	1449.7	1449.1	1447.4
27.5°	1419.2	1416.9	1415.2	1414.0	1412.3
30°	1381.8	1379.5	1377.8	1376.0	1374.9
32.5°	1341.5	1340.4	1337.5	1336.9	1334.6
35°	1298.4	1296.7	1295.0	1292.7	1290.4
37.5°	1252.4	1250.7	1246.7	1245.5	1243.8
40°	1203.5	1201.2	1196.1	1196.1	1194.3
42.5°	1151.2	1148.9	1145.5	1143.2	1142.0
45°	1096.6	1094.3	1090.3	1088.0	1086.8
47.5°	1038.5	1036.8	1032.2	1030.5	1028.7
50°	978.1	975.8	970.7	969.5	967.8
52.5°	914.9	913.7	906.8	906.2	904.5
55°	852.2	845.9	840.1	840.1	839.0
57.5°	783.2	778.6	771.1	771.1	770.0
60°	711.9	707.9	699.2	700.4	699.2
62.5°	642.3	633.7	625.6	629.1	626.2
65°	563.0	558.4	549.7	552.0	551.5
67.5°	490.5	481.9	473.8	478.4	476.1
70°	410.0	405.4	397.3	401.9	396.2
72.5°	334.1	330.1	322.0	327.2	321.4
75°	260.5	256.5	250.1	254.7	249.0
77.5°	190.9	188.0	182.3	186.9	188.0
80°	127.7	124.2	121.3	125.4	126.5
82.5°	74.8	72.5	71.3	71.9	74.8
85°	36.2	33.4	33.4	33.9	33.9
87.5°	9.8	8.6	9.8	10.4	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)