

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: P973804

Luminaire Tested: FLR2-22-60HE-L930-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-60HE-L930-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

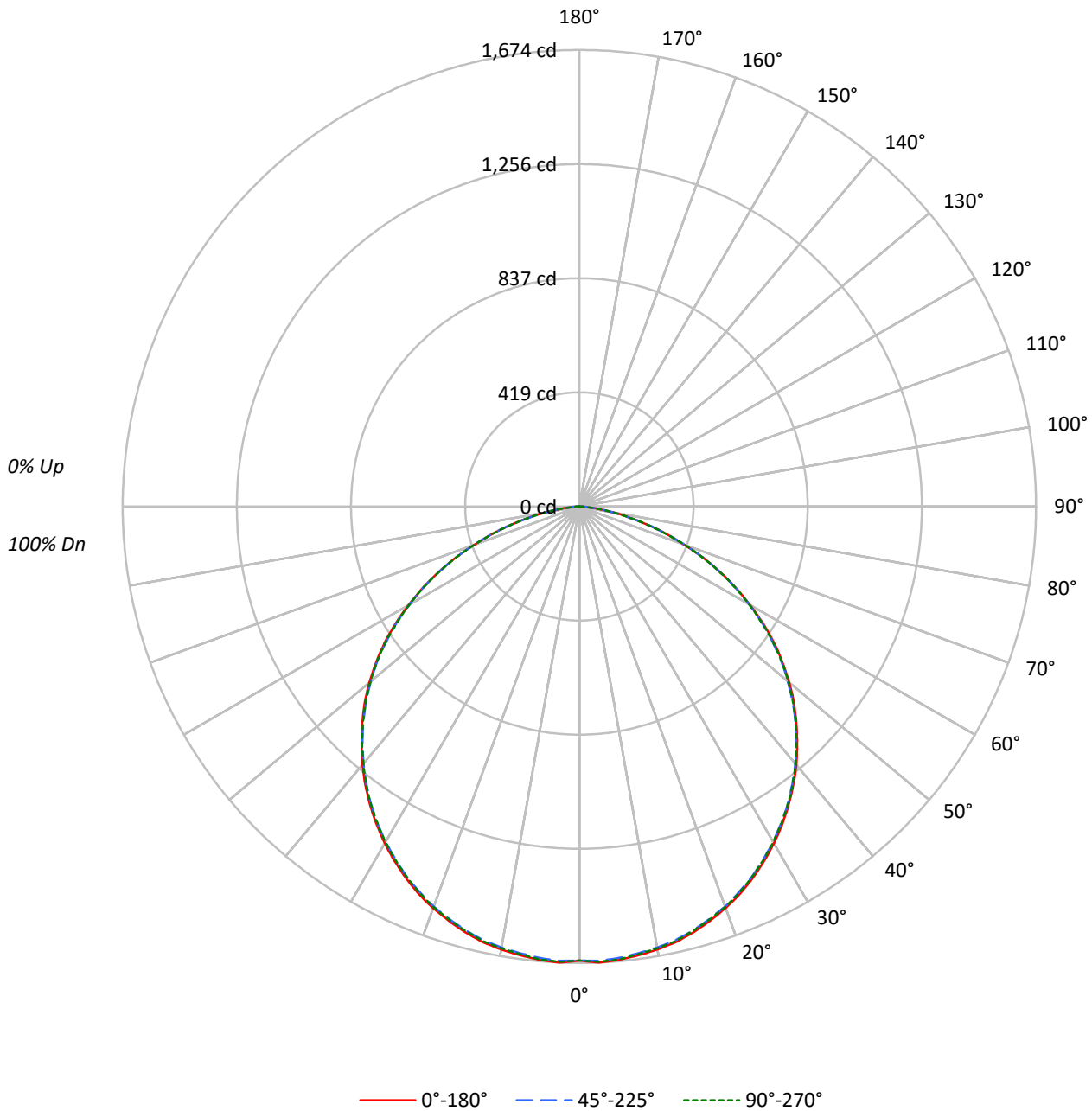
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4656.6 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 47.4
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										
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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44														
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39														
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	39	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	40	34	29	27						27														
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25						25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4481	4481	4481
5°	4509	4490	4504
10°	4508	4488	4497
15°	4504	4484	4490
20°	4489	4471	4477
25°	4465	4446	4449
30°	4433	4414	4417
35°	4392	4375	4379
40°	4346	4325	4328
45°	4282	4262	4270
50°	4207	4176	4185
55°	4087	4053	4068
60°	3886	3869	3869
65°	3628	3622	3608
70°	3212	3229	3220
75°	2705	2685	2663
80°	1945	1912	1897
85°	1016	1016	985

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4282 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.7	3.4
10°-20°	453.4	9.7
20°-30°	689.1	14.8
30°-40°	832.9	17.9
40°-50°	864.5	18.6
50°-60°	772.9	16.6
60°-70°	561.9	12.1
70°-80°	276.3	5.9
80°-90°	47.9	1.0
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°	1300.2	27.9
0°-40°	2133.1	45.8
0°-60°	3770.4	81.0
0°-90°	4656.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4656.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1665	1665	1665	1665	1665	
5°	1669	1650	1662	1656	1667	159
15°	1617	1598	1610	1606	1612	456
25°	1504	1487	1498	1494	1498	693
35°	1337	1328	1332	1333	1333	836
45°	1125	1120	1120	1122	1122	868
55°	871	866	864	866	867	776
65°	570	572	569	569	567	562
75°	260	262	258	259	256	276
85°	33	34	33	33	32	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1665.1	1665.1	1665.1	1665.1	1665.1
2.5°	1674.4	1654.9	1667.2	1660.0	1671.3
5°	1669.3	1649.7	1662.1	1655.9	1667.2
7.5°	1660.0	1640.5	1652.8	1646.6	1655.9
10°	1649.7	1629.1	1642.5	1636.3	1645.6
12.5°	1636.3	1616.8	1629.1	1624.0	1632.2
15°	1616.8	1598.3	1609.6	1605.5	1611.7
17.5°	1593.1	1574.6	1585.9	1582.9	1588.0
20°	1567.4	1549.9	1561.3	1558.2	1563.3
22.5°	1538.6	1520.1	1530.4	1528.4	1532.5
25°	1503.7	1487.2	1497.5	1494.4	1498.5
27.5°	1466.6	1451.2	1459.4	1459.4	1461.5
30°	1426.5	1412.1	1420.4	1420.4	1421.4
32.5°	1383.3	1372.0	1377.2	1378.2	1378.2
35°	1337.1	1327.8	1331.9	1332.9	1332.9
37.5°	1288.7	1279.5	1282.5	1284.6	1284.6
40°	1237.3	1229.1	1231.1	1233.2	1232.1
42.5°	1181.7	1175.6	1176.6	1178.7	1178.7
45°	1125.2	1120.0	1120.0	1122.1	1122.1
47.5°	1067.6	1062.4	1060.4	1062.4	1062.4
50°	1004.8	999.7	997.6	999.7	999.7
52.5°	939.0	933.9	933.9	933.9	934.9
55°	871.1	866.0	863.9	866.0	867.0
57.5°	799.1	797.1	794.0	795.0	791.9
60°	722.0	722.0	718.9	721.0	718.9
62.5°	646.9	649.0	645.9	645.9	643.8
65°	569.8	571.8	568.8	568.8	566.7
67.5°	490.6	493.7	489.6	489.6	487.5
70°	408.3	414.5	410.4	411.4	409.3
72.5°	334.3	337.3	333.2	333.2	331.2
75°	260.2	262.3	258.2	259.2	256.1
77.5°	187.2	190.3	186.2	187.2	186.2
80°	125.5	126.5	123.4	124.4	122.4
82.5°	73.0	74.1	73.0	72.0	71.0
85°	32.9	33.9	32.9	32.9	31.9
87.5°	8.2	8.2	8.2	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)