

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: P974038

Luminaire Tested: FLR2-22-60HE-L950-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974038
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-L950-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

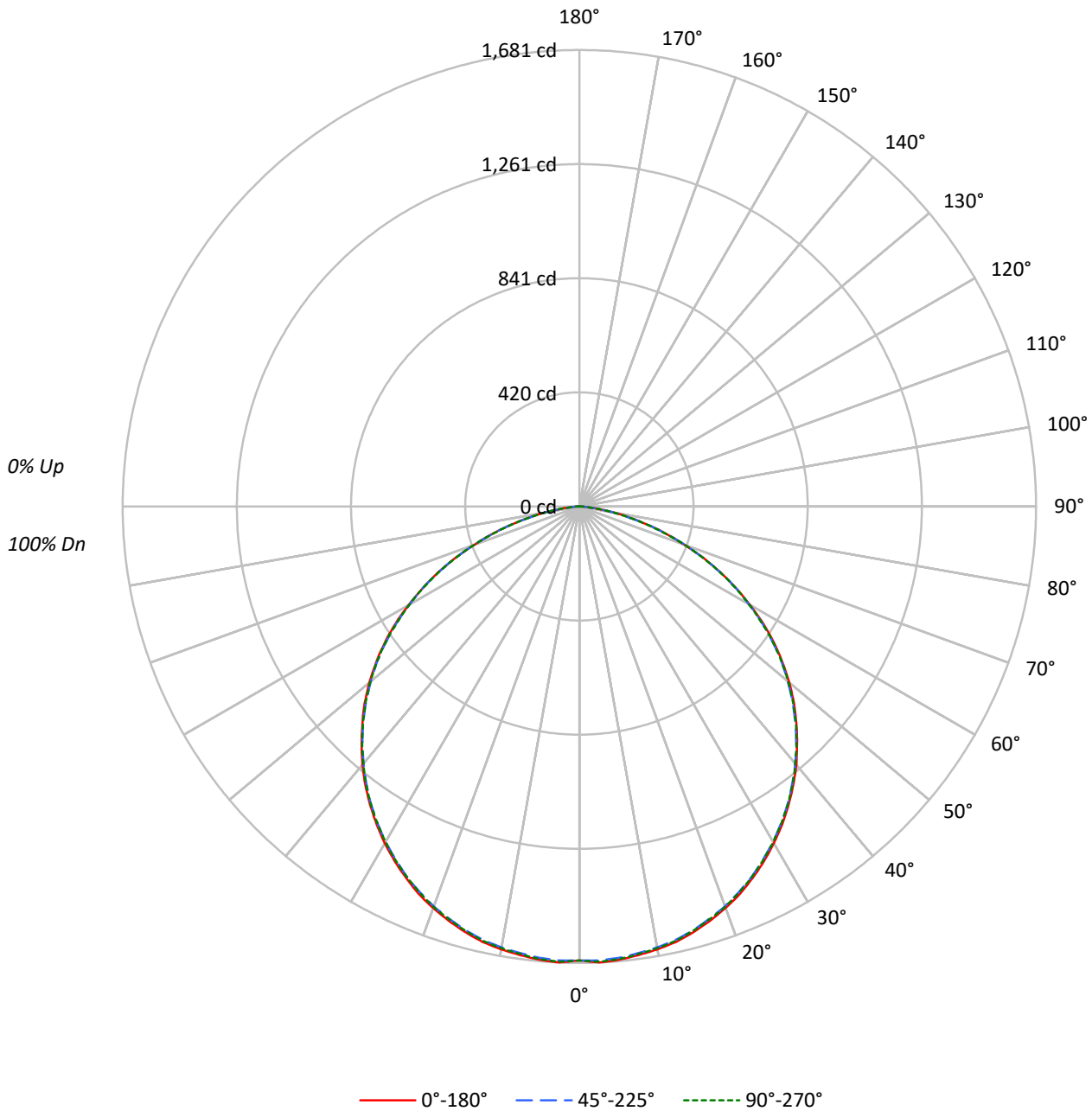
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4675.0 lumens
Efficiency: N/A
Efficacy: 98.6 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									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	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°	4499	4499	4499
5°	4527	4507	4521
10°	4526	4506	4514
15°	4522	4502	4508
20°	4506	4489	4495
25°	4482	4464	4467
30°	4450	4431	4434
35°	4410	4393	4396
40°	4364	4342	4345
45°	4299	4279	4287
50°	4223	4193	4202
55°	4103	4069	4084
60°	3901	3885	3885
65°	3642	3636	3622
70°	3225	3242	3234
75°	2716	2695	2673
80°	1953	1920	1905
85°	1019	1019	988

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4299 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.3	3.4
10°-20°	455.2	9.7
20°-30°	691.8	14.8
30°-40°	836.2	17.9
40°-50°	867.9	18.6
50°-60°	775.9	16.6
60°-70°	564.2	12.1
70°-80°	277.4	5.9
80°-90°	48.1	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°	1305.3	27.9
0°-40°	2141.5	45.8
0°-60°	3785.3	81.0
0°-90°	4675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4675.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1672	1672	1672	1672	1672	
5°	1676	1656	1669	1662	1674	159
15°	1623	1605	1616	1612	1618	458
25°	1510	1493	1503	1500	1504	696
35°	1342	1333	1337	1338	1338	840
45°	1130	1124	1124	1126	1126	871
55°	875	869	867	869	870	780
65°	572	574	571	571	569	564
75°	261	263	259	260	257	277
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°	1671.7	1671.7	1671.7	1671.7	1671.7
2.5°	1681.0	1661.4	1673.8	1666.6	1677.9
5°	1675.9	1656.2	1668.6	1662.4	1673.8
7.5°	1666.6	1647.0	1659.3	1653.1	1662.4
10°	1656.2	1635.6	1649.0	1642.8	1652.1
12.5°	1642.8	1623.2	1635.6	1630.4	1638.7
15°	1623.2	1604.6	1616.0	1611.8	1618.0
17.5°	1599.5	1580.9	1592.2	1589.1	1594.3
20°	1573.6	1556.1	1567.4	1564.3	1569.5
22.5°	1544.7	1526.1	1536.5	1534.4	1538.5
25°	1509.6	1493.1	1503.4	1500.3	1504.5
27.5°	1472.4	1457.0	1465.2	1465.2	1467.3
30°	1432.2	1417.7	1426.0	1426.0	1427.0
32.5°	1388.8	1377.5	1382.6	1383.6	1383.6
35°	1342.3	1333.1	1337.2	1338.2	1338.2
37.5°	1293.8	1284.5	1287.6	1289.7	1289.7
40°	1242.2	1233.9	1236.0	1238.1	1237.0
42.5°	1186.4	1180.2	1181.3	1183.3	1183.3
45°	1129.6	1124.5	1124.5	1126.5	1126.5
47.5°	1071.8	1066.6	1064.6	1066.6	1066.6
50°	1008.8	1003.7	1001.6	1003.7	1003.7
52.5°	942.7	937.6	937.6	937.6	938.6
55°	874.6	869.4	867.4	869.4	870.5
57.5°	802.3	800.2	797.1	798.2	795.1
60°	724.9	724.9	721.8	723.8	721.8
62.5°	649.5	651.6	648.5	648.5	646.4
65°	572.0	574.1	571.0	571.0	568.9
67.5°	492.5	495.6	491.5	491.5	489.4
70°	409.9	416.1	412.0	413.0	411.0
72.5°	335.6	338.7	334.6	334.6	332.5
75°	261.2	263.3	259.2	260.2	257.1
77.5°	187.9	191.0	186.9	187.9	186.9
80°	126.0	127.0	123.9	124.9	122.9
82.5°	73.3	74.3	73.3	72.3	71.2
85°	33.0	34.1	33.0	33.0	32.0
87.5°	8.3	8.3	8.3	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)