

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: P973870

Luminaire Tested: FLR2-22-60HE-L935-CP250

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973870  
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-L935-CP250  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

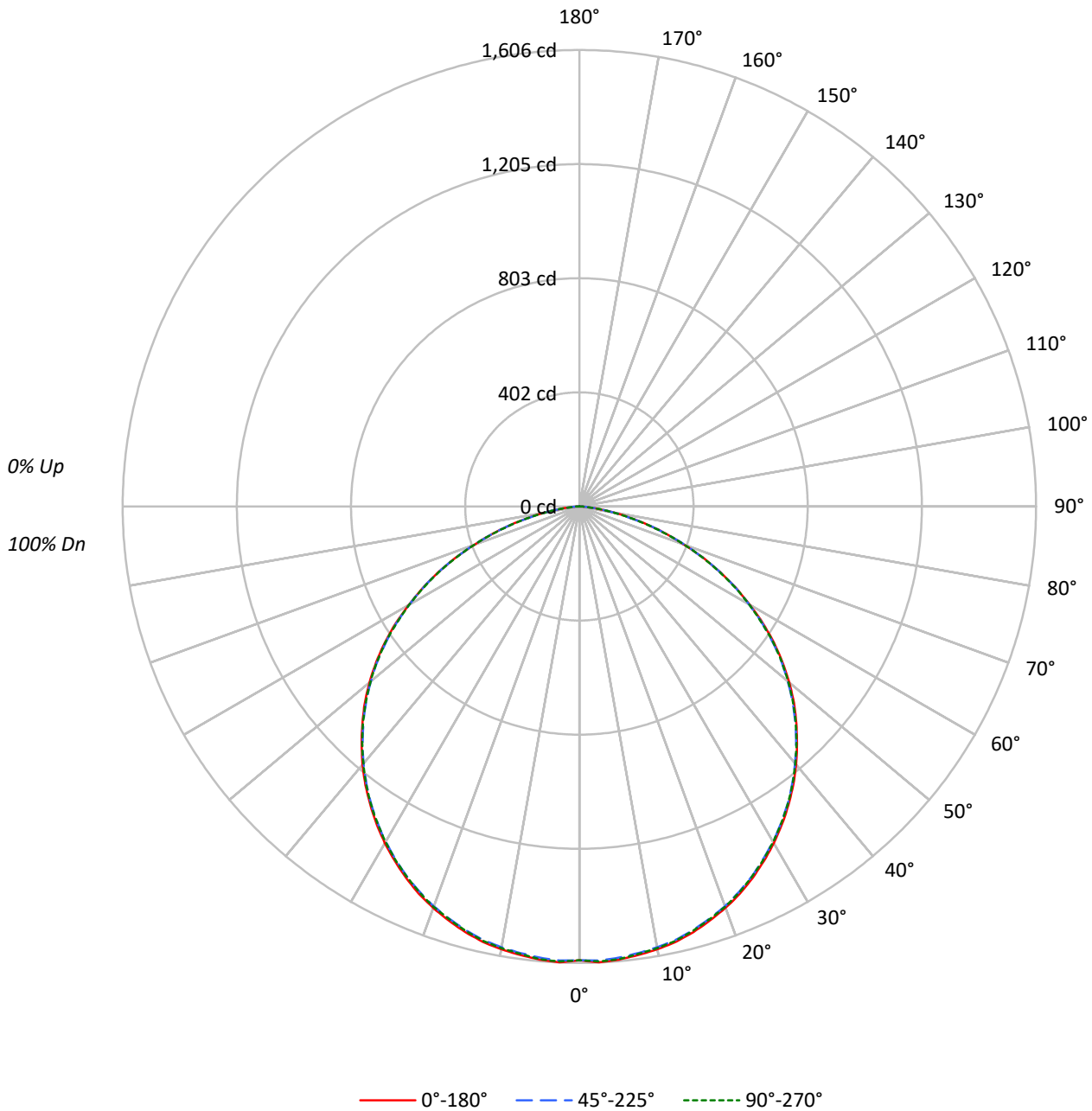
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4464.9 lumens  
Efficiency: N/A  
Efficacy: 94.2 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									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°	4296	4296	4296
5°	4323	4305	4318
10°	4322	4303	4312
15°	4319	4299	4305
20°	4304	4287	4293
25°	4281	4263	4266
30°	4250	4232	4235
35°	4211	4195	4199
40°	4168	4147	4150
45°	4106	4087	4094
50°	4034	4005	4013
55°	3919	3887	3900
60°	3726	3710	3710
65°	3479	3472	3460
70°	3080	3096	3088
75°	2594	2573	2554
80°	1864	1833	1819
85°	976	976	945

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4106 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.2	3.4
10°-20°	434.8	9.7
20°-30°	660.7	14.8
30°-40°	798.6	17.9
40°-50°	828.9	18.6
50°-60°	741.1	16.6
60°-70°	538.8	12.1
70°-80°	265.0	5.9
80°-90°	46.0	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°	1246.7	27.9
0°-40°	2045.3	45.8
0°-60°	3615.2	81.0
0°-90°	4464.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4464.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1597	1597	1597	1597	1597	
5°	1600	1582	1594	1588	1599	152
15°	1550	1532	1543	1539	1545	437
25°	1442	1426	1436	1433	1437	665
35°	1282	1273	1277	1278	1278	802
45°	1079	1074	1074	1076	1076	832
55°	835	830	828	830	831	745
65°	546	548	545	545	543	539
75°	250	252	248	248	246	265
85°	32	32	32	32	31	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1596.6	1596.6	1596.6	1596.6	1596.6
2.5°	1605.5	1586.7	1598.6	1591.7	1602.5
5°	1600.5	1581.8	1593.6	1587.7	1598.6
7.5°	1591.7	1572.9	1584.8	1578.9	1587.7
10°	1581.8	1562.1	1574.9	1569.0	1577.9
12.5°	1569.0	1550.3	1562.1	1557.2	1565.0
15°	1550.3	1532.5	1543.3	1539.4	1545.3
17.5°	1527.6	1509.8	1520.7	1517.7	1522.6
20°	1502.9	1486.2	1497.0	1494.0	1499.0
22.5°	1475.3	1457.6	1467.4	1465.4	1469.4
25°	1441.8	1426.0	1435.9	1432.9	1436.8
27.5°	1406.3	1391.5	1399.4	1399.4	1401.3
30°	1367.8	1354.0	1361.9	1361.9	1362.9
32.5°	1326.4	1315.5	1320.5	1321.5	1321.5
35°	1282.0	1273.1	1277.1	1278.1	1278.1
37.5°	1235.7	1226.8	1229.7	1231.7	1231.7
40°	1186.4	1178.5	1180.4	1182.4	1181.4
42.5°	1133.1	1127.2	1128.2	1130.1	1130.1
45°	1078.9	1073.9	1073.9	1075.9	1075.9
47.5°	1023.6	1018.7	1016.7	1018.7	1018.7
50°	963.5	958.6	956.6	958.6	958.6
52.5°	900.4	895.4	895.4	895.4	896.4
55°	835.3	830.4	828.4	830.4	831.3
57.5°	766.3	764.3	761.3	762.3	759.3
60°	692.3	692.3	689.3	691.3	689.3
62.5°	620.3	622.3	619.3	619.3	617.3
65°	546.3	548.3	545.3	545.3	543.4
67.5°	470.4	473.4	469.4	469.4	467.4
70°	391.5	397.4	393.5	394.5	392.5
72.5°	320.5	323.5	319.5	319.5	317.5
75°	249.5	251.5	247.5	248.5	245.6
77.5°	179.5	182.4	178.5	179.5	178.5
80°	120.3	121.3	118.3	119.3	117.4
82.5°	70.0	71.0	70.0	69.0	68.0
85°	31.6	32.5	31.6	31.6	30.6
87.5°	7.9	7.9	7.9	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)