

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: P973942

Luminaire Tested: FLR2-22-60HE-L940-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973942  
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-L940-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

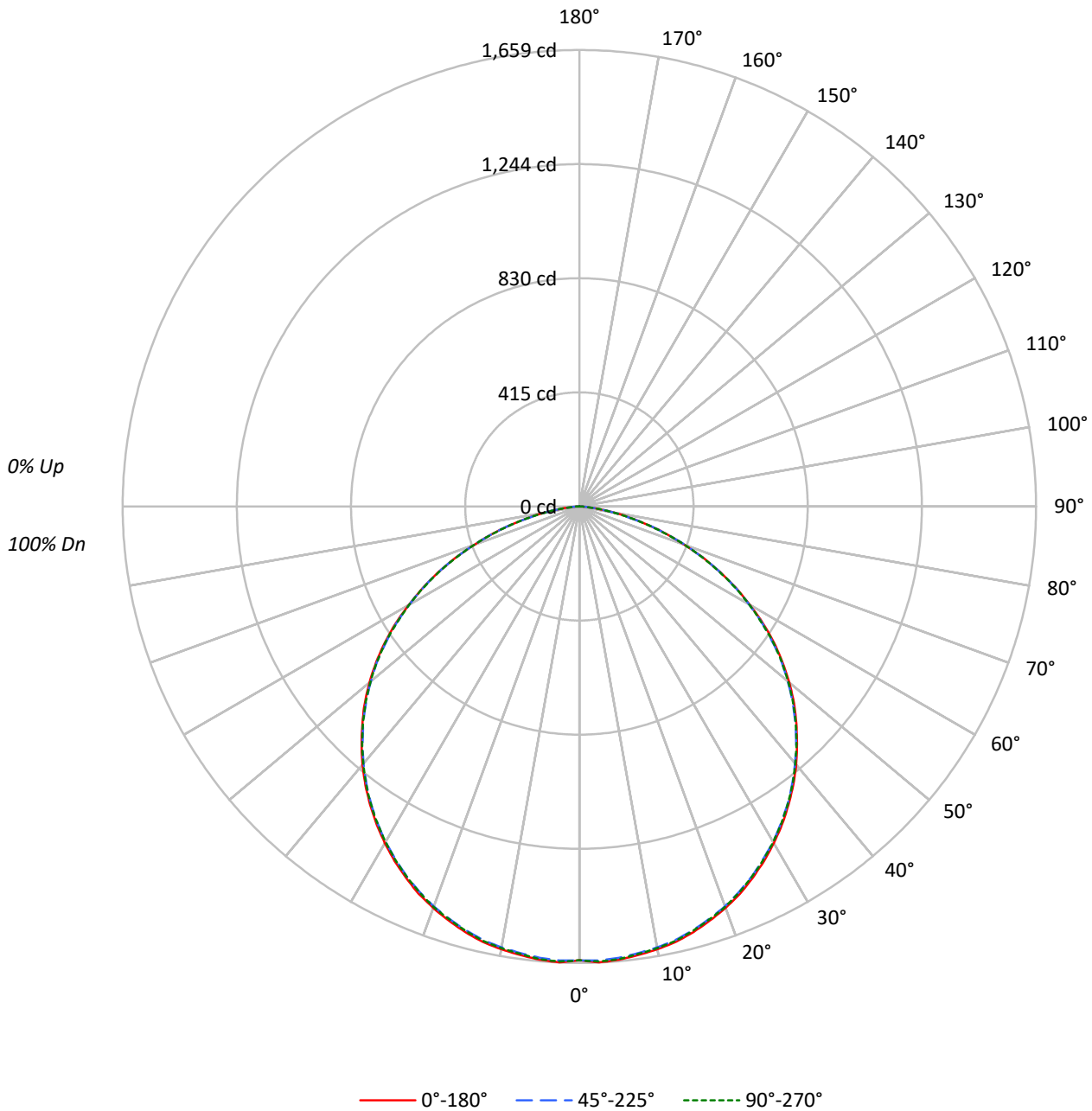
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4612.9 lumens  
Efficiency: N/A  
Efficacy: 97.3 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°	4439	4439	4439
5°	4467	4448	4461
10°	4465	4446	4455
15°	4462	4442	4448
20°	4446	4429	4435
25°	4423	4404	4408
30°	4391	4372	4375
35°	4351	4334	4338
40°	4306	4284	4288
45°	4242	4222	4230
50°	4167	4137	4146
55°	4049	4015	4030
60°	3849	3833	3833
65°	3594	3587	3575
70°	3183	3198	3190
75°	2680	2659	2638
80°	1926	1895	1878
85°	1007	1007	976

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4242 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.2	3.4
10°-20°	449.2	9.7
20°-30°	682.6	14.8
30°-40°	825.1	17.9
40°-50°	856.4	18.6
50°-60°	765.6	16.6
60°-70°	556.7	12.1
70°-80°	273.7	5.9
80°-90°	47.5	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°	1288.0	27.9
0°-40°	2113.0	45.8
0°-60°	3735.1	81.0
0°-90°	4612.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4612.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1654	1634	1646	1640	1652	157
15°	1602	1583	1594	1590	1596	452
25°	1490	1473	1483	1480	1484	687
35°	1324	1315	1319	1320	1320	829
45°	1115	1110	1110	1112	1112	860
55°	863	858	856	858	859	769
65°	564	566	563	563	561	557
75°	258	260	256	257	254	274
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°	1649.5	1649.5	1649.5	1649.5	1649.5
2.5°	1658.7	1639.3	1651.6	1644.4	1655.6
5°	1653.6	1634.2	1646.5	1640.4	1651.6
7.5°	1644.4	1625.1	1637.3	1631.2	1640.4
10°	1634.2	1613.9	1627.1	1621.0	1630.2
12.5°	1621.0	1601.6	1613.9	1608.8	1616.9
15°	1601.6	1583.3	1594.5	1590.4	1596.5
17.5°	1578.2	1559.9	1571.1	1568.0	1573.1
20°	1552.7	1535.4	1546.6	1543.6	1548.7
22.5°	1524.2	1505.9	1516.1	1514.0	1518.1
25°	1489.6	1473.3	1483.4	1480.4	1484.5
27.5°	1452.9	1437.6	1445.7	1445.7	1447.8
30°	1413.1	1398.9	1407.0	1407.0	1408.1
32.5°	1370.4	1359.1	1364.2	1365.3	1365.3
35°	1324.5	1315.3	1319.4	1320.4	1320.4
37.5°	1276.6	1267.5	1270.5	1272.5	1272.5
40°	1225.7	1217.5	1219.6	1221.6	1220.6
42.5°	1170.7	1164.5	1165.6	1167.6	1167.6
45°	1114.6	1109.5	1109.5	1111.6	1111.6
47.5°	1057.6	1052.5	1050.4	1052.5	1052.5
50°	995.4	990.3	988.3	990.3	990.3
52.5°	930.2	925.1	925.1	925.1	926.1
55°	863.0	857.9	855.8	857.9	858.9
57.5°	791.6	789.6	786.6	787.6	784.5
60°	715.2	715.2	712.2	714.2	712.2
62.5°	640.9	642.9	639.8	639.8	637.8
65°	564.4	566.5	563.4	563.4	561.4
67.5°	486.0	489.0	485.0	485.0	482.9
70°	404.5	410.6	406.5	407.5	405.5
72.5°	331.1	334.2	330.1	330.1	328.1
75°	257.8	259.8	255.7	256.8	253.7
77.5°	185.4	188.5	184.4	185.4	184.4
80°	124.3	125.3	122.3	123.3	121.2
82.5°	72.3	73.4	72.3	71.3	70.3
85°	32.6	33.6	32.6	32.6	31.6
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)