

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: P973972

Luminaire Tested: FLR2-22-60HE-L940-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973972
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

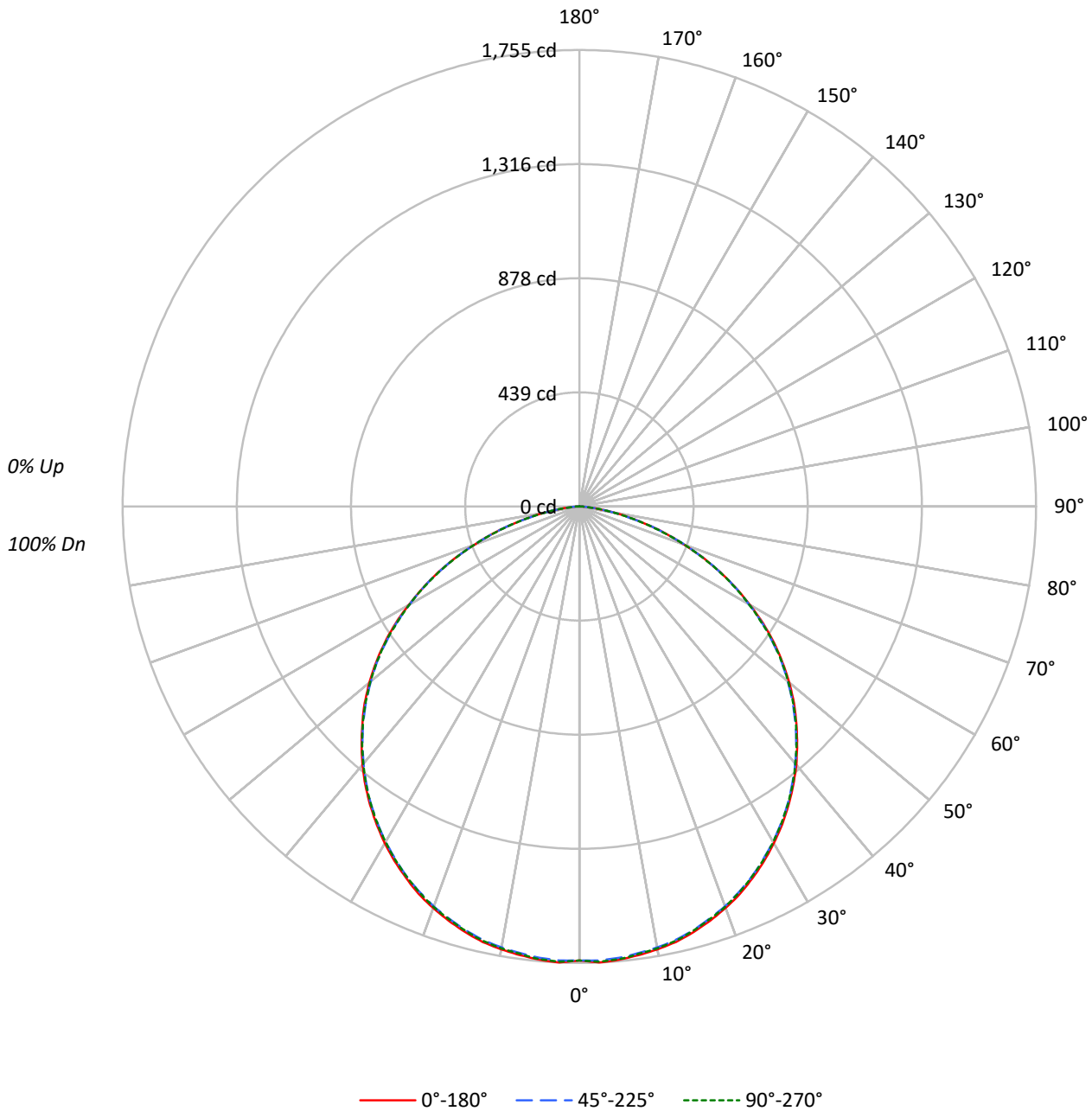
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4881.0 lumens
Efficiency: N/A
Efficacy: 103.0 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				20	
RC	80				70				50				30				10	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4697	4697	4697
5°	4726	4706	4720
10°	4725	4705	4713
15°	4721	4700	4706
20°	4705	4686	4693
25°	4680	4661	4664
30°	4646	4626	4630
35°	4604	4586	4590
40°	4556	4533	4537
45°	4488	4468	4476
50°	4410	4378	4387
55°	4284	4249	4264
60°	4073	4056	4056
65°	3803	3796	3782
70°	3367	3384	3376
75°	2836	2813	2791
80°	2038	2005	1988
85°	1065	1065	1031

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4488 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.3	3.4
10°-20°	475.3	9.7
20°-30°	722.3	14.8
30°-40°	873.0	17.9
40°-50°	906.1	18.6
50°-60°	810.1	16.6
60°-70°	589.0	12.1
70°-80°	289.6	5.9
80°-90°	50.2	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°	1362.8	27.9
0°-40°	2235.9	45.8
0°-60°	3952.1	81.0
0°-90°	4881.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4881.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1745	1745	1745	1745	1745	
5°	1750	1729	1742	1736	1748	166
15°	1695	1675	1687	1683	1689	478
25°	1576	1559	1570	1566	1571	726
35°	1402	1392	1396	1397	1397	877
45°	1179	1174	1174	1176	1176	910
55°	913	908	906	908	909	814
65°	597	599	596	596	594	589
75°	273	275	271	272	268	290
85°	34	36	34	34	33	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1745.4	1745.4	1745.4	1745.4	1745.4
2.5°	1755.1	1734.6	1747.5	1740.0	1751.9
5°	1749.7	1729.2	1742.2	1735.7	1747.5
7.5°	1740.0	1719.5	1732.5	1726.0	1735.7
10°	1729.2	1707.7	1721.7	1715.2	1724.9
12.5°	1715.2	1694.7	1707.7	1702.3	1710.9
15°	1694.7	1675.3	1687.2	1682.9	1689.3
17.5°	1669.9	1650.5	1662.4	1659.1	1664.5
20°	1643.0	1624.6	1636.5	1633.3	1638.7
22.5°	1612.8	1593.4	1604.2	1602.0	1606.3
25°	1576.1	1558.9	1569.7	1566.4	1570.7
27.5°	1537.3	1521.2	1529.8	1529.8	1531.9
30°	1495.3	1480.2	1488.8	1488.8	1489.9
32.5°	1450.0	1438.1	1443.5	1444.6	1444.6
35°	1401.5	1391.8	1396.1	1397.2	1397.2
37.5°	1350.8	1341.1	1344.3	1346.5	1346.5
40°	1296.9	1288.3	1290.4	1292.6	1291.5
42.5°	1238.7	1232.2	1233.3	1235.5	1235.5
45°	1179.4	1174.0	1174.0	1176.2	1176.2
47.5°	1119.0	1113.6	1111.5	1113.6	1113.6
50°	1053.3	1047.9	1045.7	1047.9	1047.9
52.5°	984.3	978.9	978.9	978.9	980.0
55°	913.1	907.7	905.6	907.7	908.8
57.5°	837.7	835.5	832.3	833.3	830.1
60°	756.8	756.8	753.6	755.7	753.6
62.5°	678.1	680.3	677.0	677.0	674.9
65°	597.2	599.4	596.2	596.2	594.0
67.5°	514.2	517.5	513.2	513.2	511.0
70°	428.0	434.5	430.1	431.2	429.1
72.5°	350.4	353.6	349.3	349.3	347.1
75°	272.8	274.9	270.6	271.7	268.4
77.5°	196.2	199.4	195.1	196.2	195.1
80°	131.5	132.6	129.4	130.4	128.3
82.5°	76.5	77.6	76.5	75.5	74.4
85°	34.5	35.6	34.5	34.5	33.4
87.5°	8.6	8.6	8.6	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)