

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: P974906

Luminaire Tested: FLR2-24-55HE-L940-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974906
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-55HE-L940-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

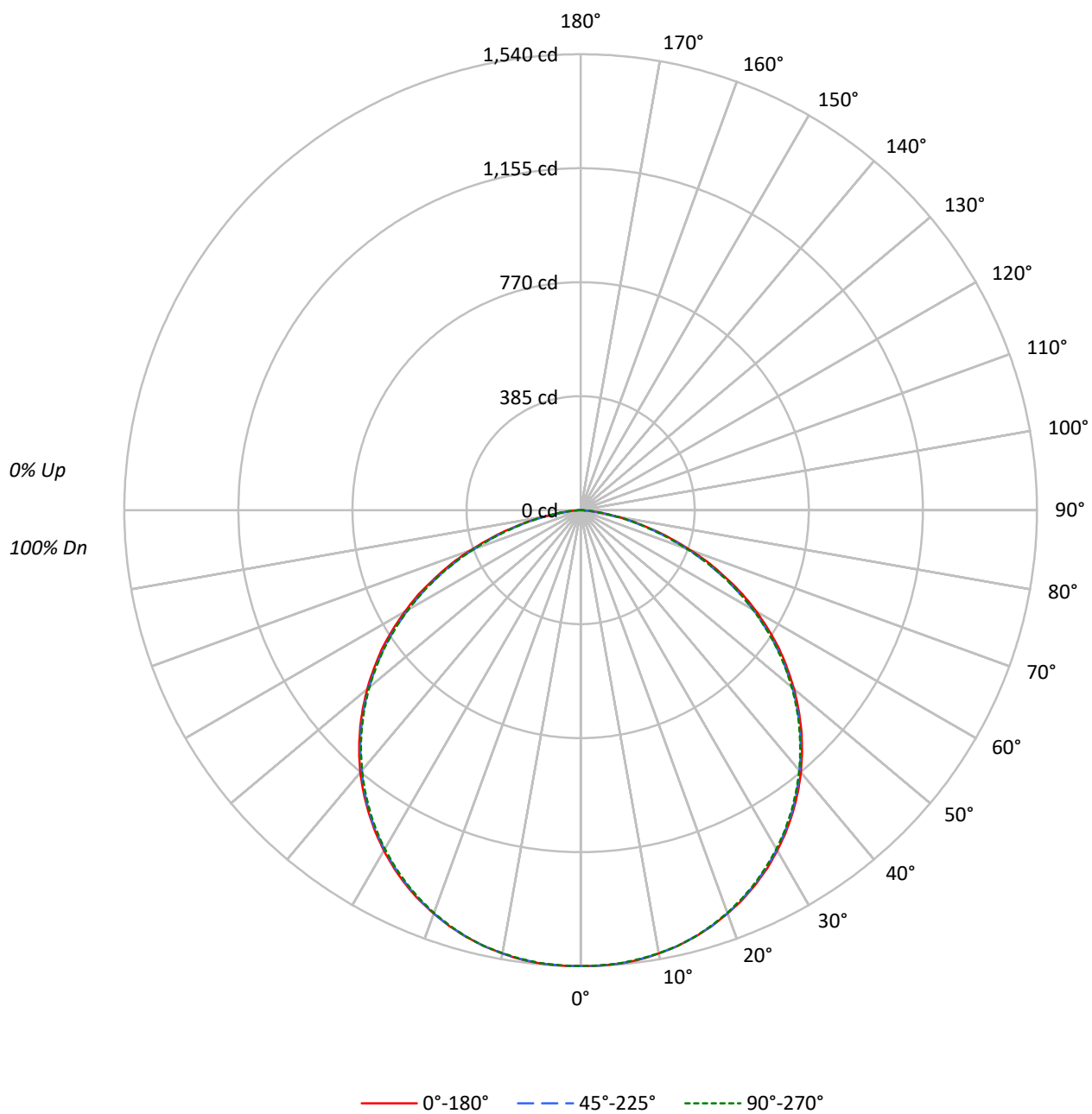
Lumens per Lamp: N/A
Luminaire Lumens: 4352.3 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.3
Input Voltage (V):
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	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	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2072	2072	2072
5°	2076	2076	2075
10°	2078	2077	2076
15°	2078	2077	2077
20°	2076	2075	2072
25°	2072	2068	2065
30°	2063	2057	2053
35°	2049	2044	2037
40°	2031	2019	2016
45°	2005	1993	1987
50°	1967	1952	1946
55°	1921	1894	1891
60°	1841	1808	1808
65°	1722	1682	1687
70°	1550	1502	1498
75°	1301	1250	1243
80°	951	903	942
85°	537	494	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2005 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.2	3.4
10°-20°	421.1	9.7
20°-30°	642.0	14.8
30°-40°	777.9	17.9
40°-50°	808.0	18.6
50°-60°	722.8	16.6
60°-70°	526.8	12.1
70°-80°	260.9	6.0
80°-90°	46.6	1.1
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°	1209.3	27.8
0°-40°	1987.1	45.7
0°-60°	3517.9	80.8
0°-90°	4352.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4352.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1540	1540	1540	1540	1540	
5°	1537	1538	1537	1537	1536	146
15°	1492	1491	1491	1492	1491	421
25°	1396	1394	1393	1392	1391	643
35°	1248	1246	1244	1242	1240	780
45°	1054	1052	1048	1045	1044	812
55°	819	813	807	807	806	730
65°	541	536	528	530	530	536
75°	250	246	240	245	239	267
85°	35	32	32	33	33	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1539.9	1539.9	1539.9	1539.9	1539.9
2.5°	1539.9	1539.4	1539.4	1539.9	1538.8
5°	1537.1	1537.7	1537.1	1537.1	1536.0
7.5°	1531.1	1530.5	1530.0	1530.5	1528.9
10°	1520.6	1520.6	1520.0	1520.6	1519.5
12.5°	1507.9	1507.9	1507.9	1508.4	1507.9
15°	1491.8	1491.3	1491.3	1492.4	1491.3
17.5°	1473.1	1472.5	1472.5	1471.9	1470.8
20°	1449.8	1449.8	1449.3	1448.7	1447.1
22.5°	1425.0	1424.4	1422.8	1422.8	1420.6
25°	1395.7	1394.0	1392.9	1392.4	1390.7
27.5°	1363.7	1361.4	1359.8	1358.7	1357.0
30°	1327.7	1325.5	1323.9	1322.2	1321.1
32.5°	1289.1	1288.0	1285.2	1284.6	1282.4
35°	1247.6	1246.0	1244.3	1242.1	1239.9
37.5°	1203.4	1201.8	1197.9	1196.8	1195.1
40°	1156.5	1154.2	1149.3	1149.3	1147.6
42.5°	1106.2	1104.0	1100.6	1098.4	1097.3
45°	1053.7	1051.5	1047.6	1045.4	1044.3
47.5°	997.9	996.2	991.8	990.1	988.5
50°	939.9	937.6	932.7	931.6	929.9
52.5°	879.1	878.0	871.3	870.8	869.1
55°	818.9	812.8	807.3	807.3	806.1
57.5°	752.5	748.1	740.9	740.9	739.8
60°	684.0	680.2	671.9	673.0	671.9
62.5°	617.2	608.9	601.2	604.5	601.7
65°	540.9	536.5	528.2	530.4	529.9
67.5°	471.3	463.0	455.3	459.7	457.5
70°	394.0	389.5	381.8	386.2	380.7
72.5°	321.0	317.2	309.4	314.4	308.9
75°	250.3	246.4	240.4	244.8	239.2
77.5°	183.4	180.7	175.2	179.6	180.7
80°	122.7	119.3	116.6	120.5	121.6
82.5°	71.8	69.6	68.5	69.1	71.8
85°	34.8	32.0	32.0	32.6	32.6
87.5°	9.4	8.3	9.4	9.9	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)