

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: P975115

Luminaire Tested: FLR2-24-55HE-L950-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975115
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-L950-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

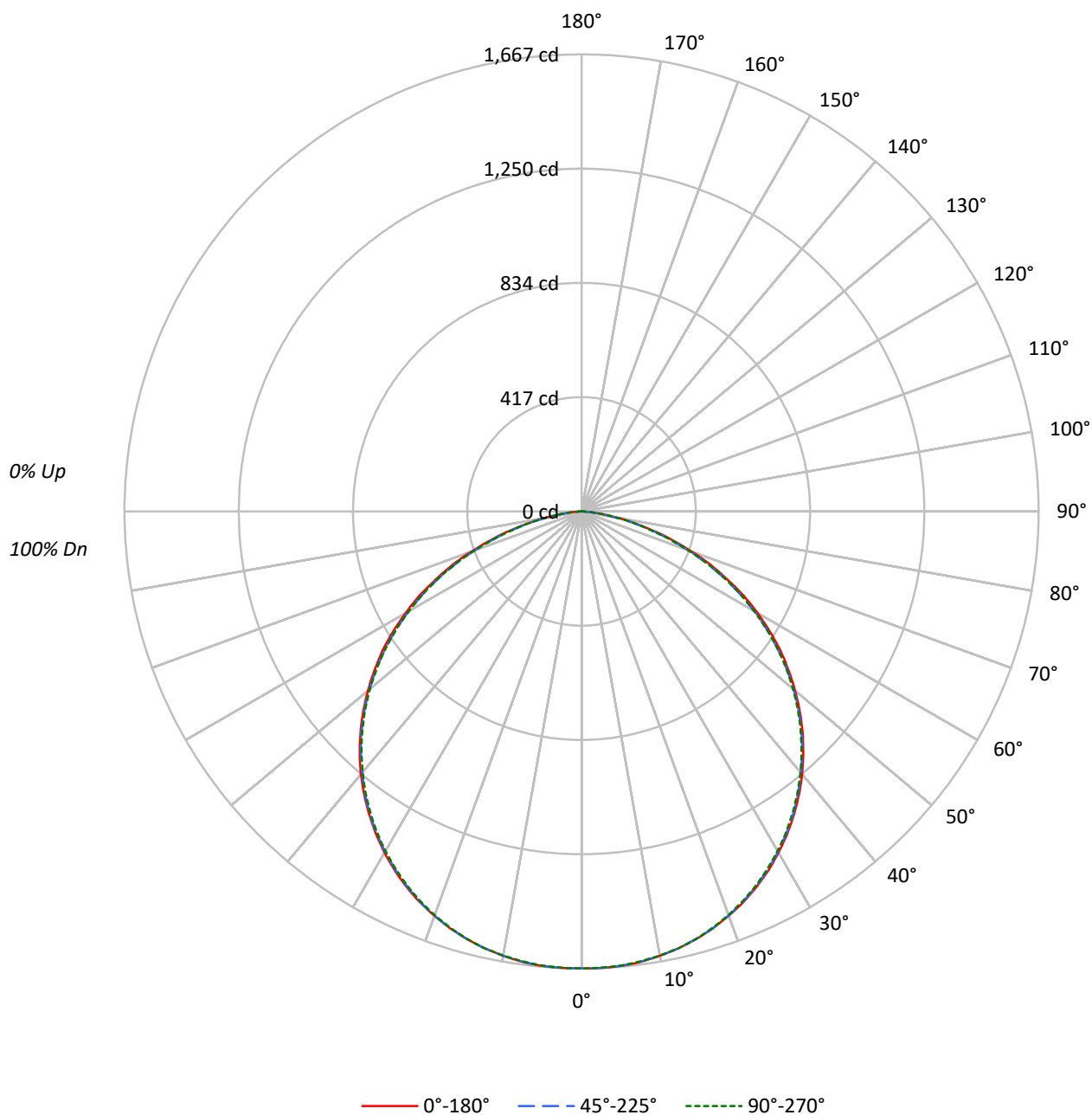
Lumens per Lamp: N/A
Luminaire Lumens: 4711.1 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2243	2243	2243
5°	2247	2247	2246
10°	2249	2248	2247
15°	2249	2249	2249
20°	2247	2246	2243
25°	2243	2238	2235
30°	2233	2226	2222
35°	2218	2212	2204
40°	2199	2185	2182
45°	2170	2158	2151
50°	2129	2113	2107
55°	2079	2050	2047
60°	1992	1957	1957
65°	1864	1820	1826
70°	1677	1626	1621
75°	1408	1353	1346
80°	1029	978	1020
85°	582	536	545

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2170 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	3.4
10°-20°	455.8	9.7
20°-30°	695.0	14.8
30°-40°	842.0	17.9
40°-50°	874.6	18.6
50°-60°	782.4	16.6
60°-70°	570.2	12.1
70°-80°	282.4	6.0
80°-90°	50.5	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°	1309.0	27.8
0°-40°	2151.0	45.7
0°-60°	3808.0	80.8
0°-90°	4711.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4711.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1667	1667	1667	1667	1667	
5°	1664	1664	1664	1664	1663	158
15°	1615	1614	1614	1615	1614	456
25°	1511	1509	1508	1507	1505	696
35°	1350	1349	1347	1344	1342	845
45°	1141	1138	1134	1132	1130	879
55°	886	880	874	874	873	790
65°	586	581	572	574	574	580
75°	271	267	260	265	259	289
85°	38	35	35	35	35	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1666.9	1666.9	1666.9	1666.9	1666.9
2.5°	1666.9	1666.3	1666.3	1666.9	1665.7
5°	1663.9	1664.5	1663.9	1663.9	1662.7
7.5°	1657.3	1656.7	1656.1	1656.7	1654.9
10°	1645.9	1645.9	1645.3	1645.9	1644.7
12.5°	1632.2	1632.2	1632.2	1632.8	1632.2
15°	1614.8	1614.2	1614.2	1615.4	1614.2
17.5°	1594.5	1593.9	1593.9	1593.3	1592.1
20°	1569.4	1569.4	1568.8	1568.2	1566.4
22.5°	1542.5	1541.9	1540.1	1540.1	1537.7
25°	1510.8	1509.0	1507.8	1507.2	1505.4
27.5°	1476.1	1473.7	1471.9	1470.7	1468.9
30°	1437.2	1434.8	1433.0	1431.2	1430.0
32.5°	1395.3	1394.1	1391.1	1390.6	1388.2
35°	1350.5	1348.7	1346.9	1344.5	1342.1
37.5°	1302.6	1300.8	1296.7	1295.5	1293.7
40°	1251.8	1249.4	1244.0	1244.0	1242.2
42.5°	1197.4	1195.0	1191.4	1189.0	1187.8
45°	1140.6	1138.2	1134.0	1131.6	1130.4
47.5°	1080.1	1078.3	1073.6	1071.8	1070.0
50°	1017.3	1015.0	1009.6	1008.4	1006.6
52.5°	951.6	950.4	943.2	942.6	940.8
55°	886.4	879.8	873.8	873.8	872.6
57.5°	814.6	809.8	802.0	802.0	800.8
60°	740.4	736.2	727.3	728.5	727.3
62.5°	668.1	659.1	650.7	654.3	651.3
65°	585.5	580.7	571.8	574.2	573.6
67.5°	510.2	501.2	492.8	497.6	495.2
70°	426.4	421.7	413.3	418.1	412.1
72.5°	347.5	343.3	334.9	340.3	334.3
75°	270.9	266.7	260.2	265.0	259.0
77.5°	198.6	195.6	189.6	194.4	195.6
80°	132.8	129.2	126.2	130.4	131.6
82.5°	77.8	75.4	74.2	74.8	77.8
85°	37.7	34.7	34.7	35.3	35.3
87.5°	10.2	9.0	10.2	10.8	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)