

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: P974774

Luminaire Tested: FLR2-24-55HE-L935-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974774
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-L935-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

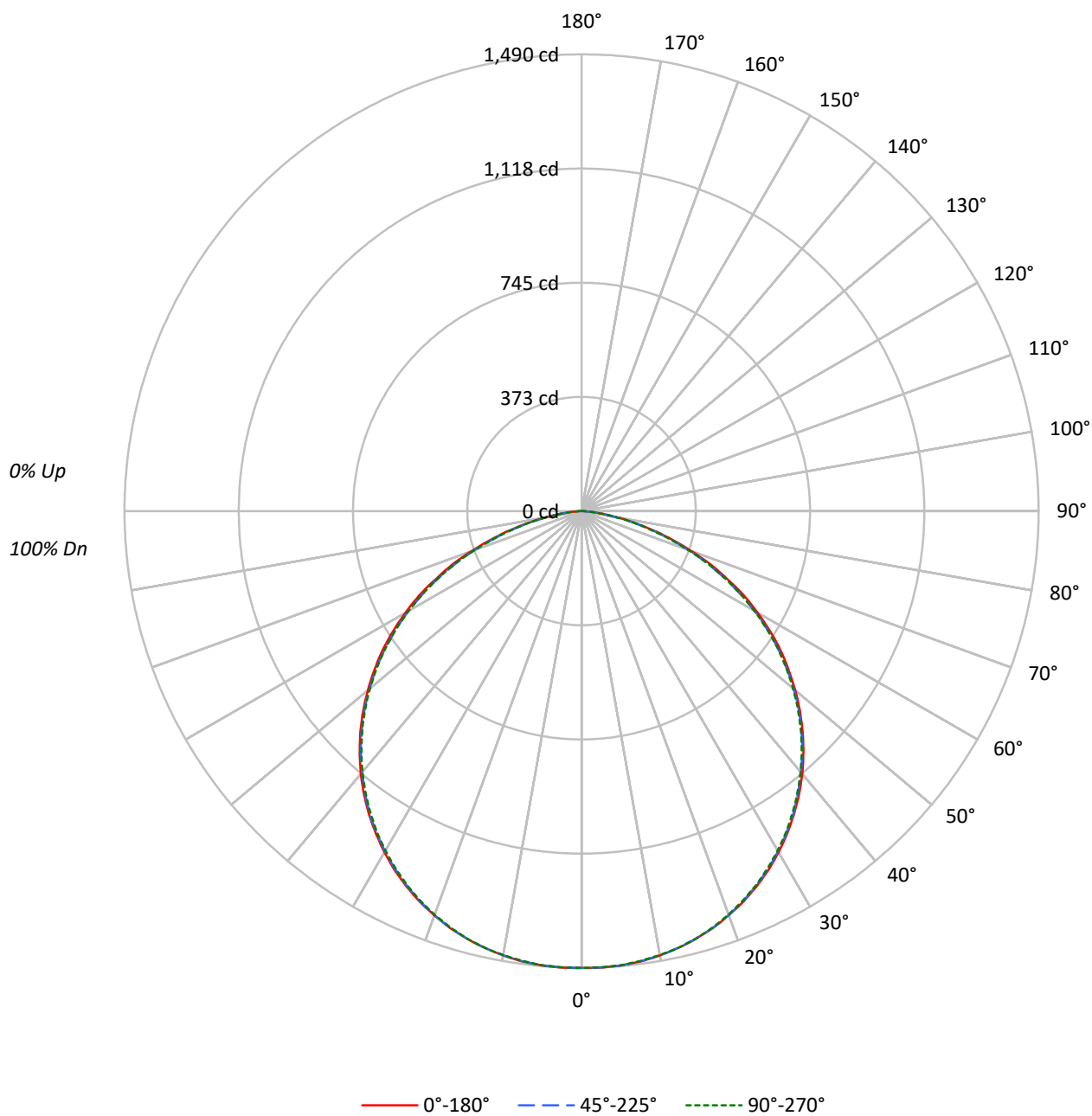
Lumens per Lamp: N/A
Luminaire Lumens: 4212.7 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2005	2005	2005
5°	2009	2009	2008
10°	2011	2010	2009
15°	2011	2011	2011
20°	2009	2009	2006
25°	2006	2002	1998
30°	1997	1991	1987
35°	1984	1978	1971
40°	1966	1954	1951
45°	1941	1929	1923
50°	1904	1890	1884
55°	1859	1833	1830
60°	1782	1750	1750
65°	1667	1628	1633
70°	1500	1454	1450
75°	1260	1209	1204
80°	920	874	912
85°	520	479	488

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1941 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	3.4
10°-20°	407.6	9.7
20°-30°	621.4	14.8
30°-40°	752.9	17.9
40°-50°	782.1	18.6
50°-60°	699.6	16.6
60°-70°	509.9	12.1
70°-80°	252.5	6.0
80°-90°	45.1	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°	1170.5	27.8
0°-40°	1923.4	45.7
0°-60°	3405.1	80.8
0°-90°	4212.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4212.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1490	1490	1490	1490	1490	
5°	1488	1488	1488	1488	1487	142
15°	1444	1443	1443	1444	1443	408
25°	1351	1349	1348	1348	1346	623
35°	1208	1206	1204	1202	1200	755
45°	1020	1018	1014	1012	1011	786
55°	793	787	781	781	780	706
65°	524	519	511	513	513	519
75°	242	238	233	237	232	258
85°	34	31	31	32	32	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1490.5	1490.5	1490.5	1490.5	1490.5
2.5°	1490.5	1490.0	1490.0	1490.5	1489.4
5°	1487.8	1488.4	1487.8	1487.8	1486.8
7.5°	1482.0	1481.4	1480.9	1481.4	1479.8
10°	1471.8	1471.8	1471.3	1471.8	1470.7
12.5°	1459.5	1459.5	1459.5	1460.0	1459.5
15°	1444.0	1443.4	1443.4	1444.5	1443.4
17.5°	1425.8	1425.3	1425.3	1424.7	1423.7
20°	1403.3	1403.3	1402.8	1402.3	1400.7
22.5°	1379.3	1378.7	1377.1	1377.1	1375.0
25°	1350.9	1349.3	1348.2	1347.7	1346.1
27.5°	1319.9	1317.8	1316.2	1315.1	1313.5
30°	1285.1	1283.0	1281.4	1279.8	1278.7
32.5°	1247.7	1246.6	1244.0	1243.4	1241.3
35°	1207.6	1206.0	1204.4	1202.2	1200.1
37.5°	1164.8	1163.2	1159.5	1158.4	1156.8
40°	1119.4	1117.2	1112.4	1112.4	1110.8
42.5°	1070.7	1068.5	1065.3	1063.2	1062.1
45°	1019.9	1017.7	1014.0	1011.9	1010.8
47.5°	965.9	964.3	960.0	958.4	956.8
50°	909.7	907.6	902.8	901.7	900.1
52.5°	850.9	849.8	843.4	842.9	841.3
55°	792.6	786.7	781.4	781.4	780.3
57.5°	728.4	724.1	717.2	717.2	716.1
60°	662.1	658.3	650.3	651.4	650.3
62.5°	597.4	589.4	581.9	585.1	582.4
65°	523.6	519.3	511.3	513.4	512.9
67.5°	456.2	448.2	440.7	445.0	442.8
70°	381.3	377.0	369.6	373.8	368.5
72.5°	310.7	307.0	299.5	304.3	299.0
75°	242.3	238.5	232.6	236.9	231.6
77.5°	177.6	174.9	169.5	173.8	174.9
80°	118.7	115.5	112.8	116.6	117.7
82.5°	69.5	67.4	66.3	66.9	69.5
85°	33.7	31.0	31.0	31.6	31.6
87.5°	9.1	8.0	9.1	9.6	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)