

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: P974763

Luminaire Tested: FLR2-24-55HE-L935-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974763
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

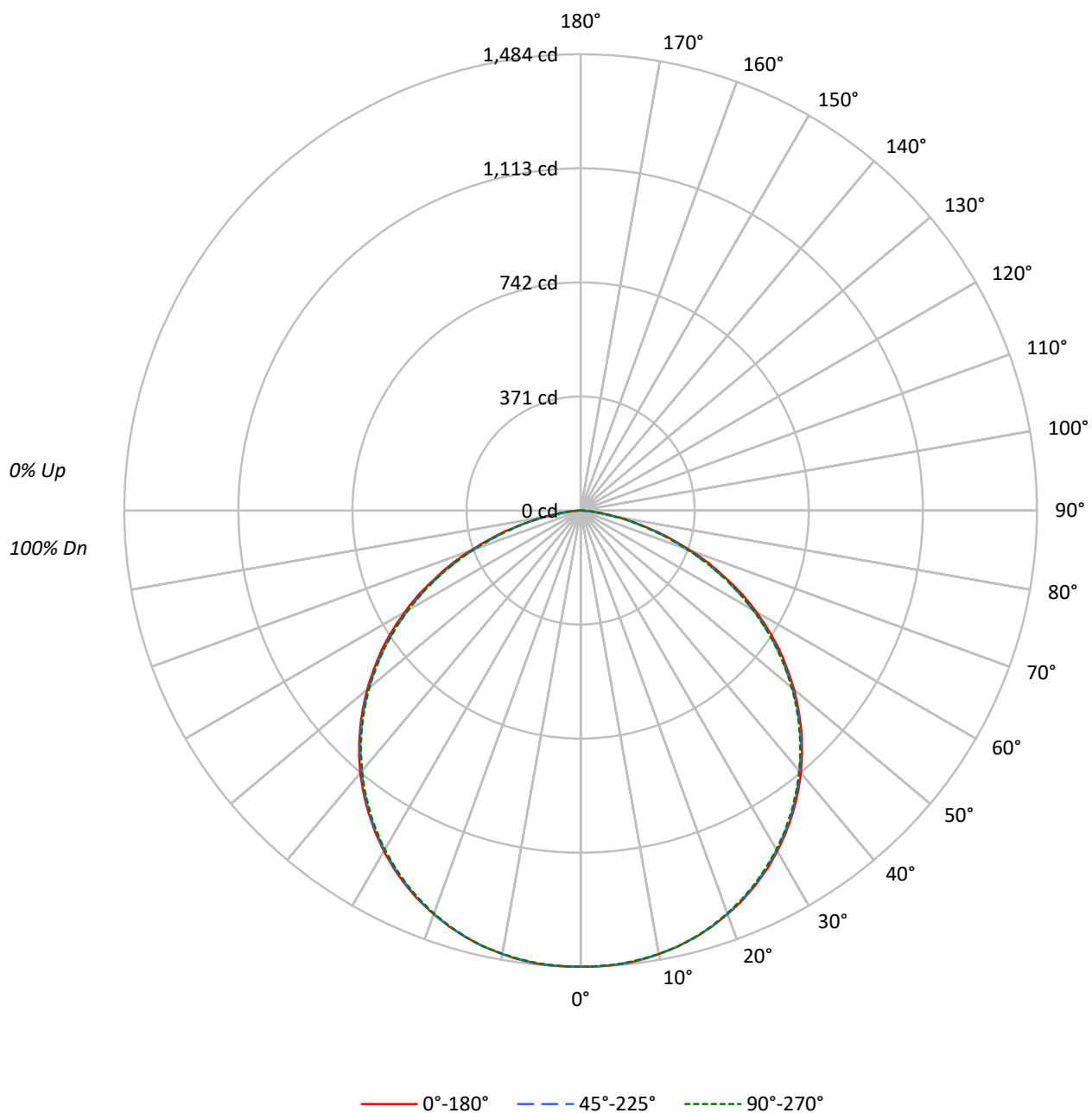
Lumens per Lamp: N/A
Luminaire Lumens: 4194.1 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1997	1997	1997
5°	2001	2001	1999
10°	2002	2001	2000
15°	2003	2002	2002
20°	2000	2000	1997
25°	1997	1993	1990
30°	1988	1982	1978
35°	1975	1970	1963
40°	1957	1945	1942
45°	1932	1921	1915
50°	1896	1881	1876
55°	1851	1825	1822
60°	1774	1742	1742
65°	1660	1621	1626
70°	1493	1447	1443
75°	1254	1204	1199
80°	916	870	907
85°	517	477	485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1932 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.9	3.4
10°-20°	405.8	9.7
20°-30°	618.7	14.8
30°-40°	749.6	17.9
40°-50°	778.6	18.6
50°-60°	696.5	16.6
60°-70°	507.6	12.1
70°-80°	251.4	6.0
80°-90°	44.9	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°	1165.3	27.8
0°-40°	1914.9	45.7
0°-60°	3390.1	80.8
0°-90°	4194.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4194.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1484	1484	1484	1484	1484	
5°	1481	1482	1481	1481	1480	141
15°	1438	1437	1437	1438	1437	406
25°	1345	1343	1342	1342	1340	620
35°	1202	1201	1199	1197	1195	752
45°	1015	1013	1010	1007	1006	783
55°	789	783	778	778	777	703
65°	521	517	509	511	511	517
75°	241	238	232	236	231	257
85°	34	31	31	31	31	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1483.9	1483.9	1483.9	1483.9	1483.9
2.5°	1483.9	1483.4	1483.4	1483.9	1482.9
5°	1481.3	1481.8	1481.3	1481.3	1480.2
7.5°	1475.4	1474.9	1474.4	1474.9	1473.3
10°	1465.3	1465.3	1464.8	1465.3	1464.2
12.5°	1453.1	1453.1	1453.1	1453.6	1453.1
15°	1437.6	1437.1	1437.1	1438.1	1437.1
17.5°	1419.5	1419.0	1419.0	1418.4	1417.4
20°	1397.1	1397.1	1396.6	1396.1	1394.5
22.5°	1373.2	1372.7	1371.1	1371.1	1368.9
25°	1345.0	1343.4	1342.3	1341.8	1340.2
27.5°	1314.1	1312.0	1310.4	1309.3	1307.7
30°	1279.5	1277.3	1275.7	1274.1	1273.1
32.5°	1242.2	1241.1	1238.5	1237.9	1235.8
35°	1202.3	1200.7	1199.1	1196.9	1194.8
37.5°	1159.7	1158.1	1154.3	1153.3	1151.7
40°	1114.4	1112.3	1107.5	1107.5	1105.9
42.5°	1066.0	1063.8	1060.6	1058.5	1057.4
45°	1015.4	1013.2	1009.5	1007.4	1006.3
47.5°	961.6	960.0	955.7	954.1	952.6
50°	905.7	903.6	898.8	897.7	896.1
52.5°	847.1	846.1	839.7	839.1	837.5
55°	789.1	783.2	777.9	777.9	776.8
57.5°	725.2	720.9	714.0	714.0	712.9
60°	659.2	655.4	647.5	648.5	647.5
62.5°	594.7	586.8	579.3	582.5	579.8
65°	521.3	517.0	509.0	511.2	510.6
67.5°	454.2	446.2	438.7	443.0	440.9
70°	379.6	375.4	367.9	372.2	366.9
72.5°	309.4	305.6	298.2	303.0	297.6
75°	241.2	237.5	231.6	235.9	230.6
77.5°	176.8	174.1	168.8	173.0	174.1
80°	118.2	115.0	112.3	116.1	117.1
82.5°	69.2	67.1	66.0	66.6	69.2
85°	33.5	30.9	30.9	31.4	31.4
87.5°	9.1	8.0	9.1	9.6	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)