

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: P974246

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

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974246
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: FLR2-24-55-L935-CP187
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L935-CP187
Ballast/Driver: -

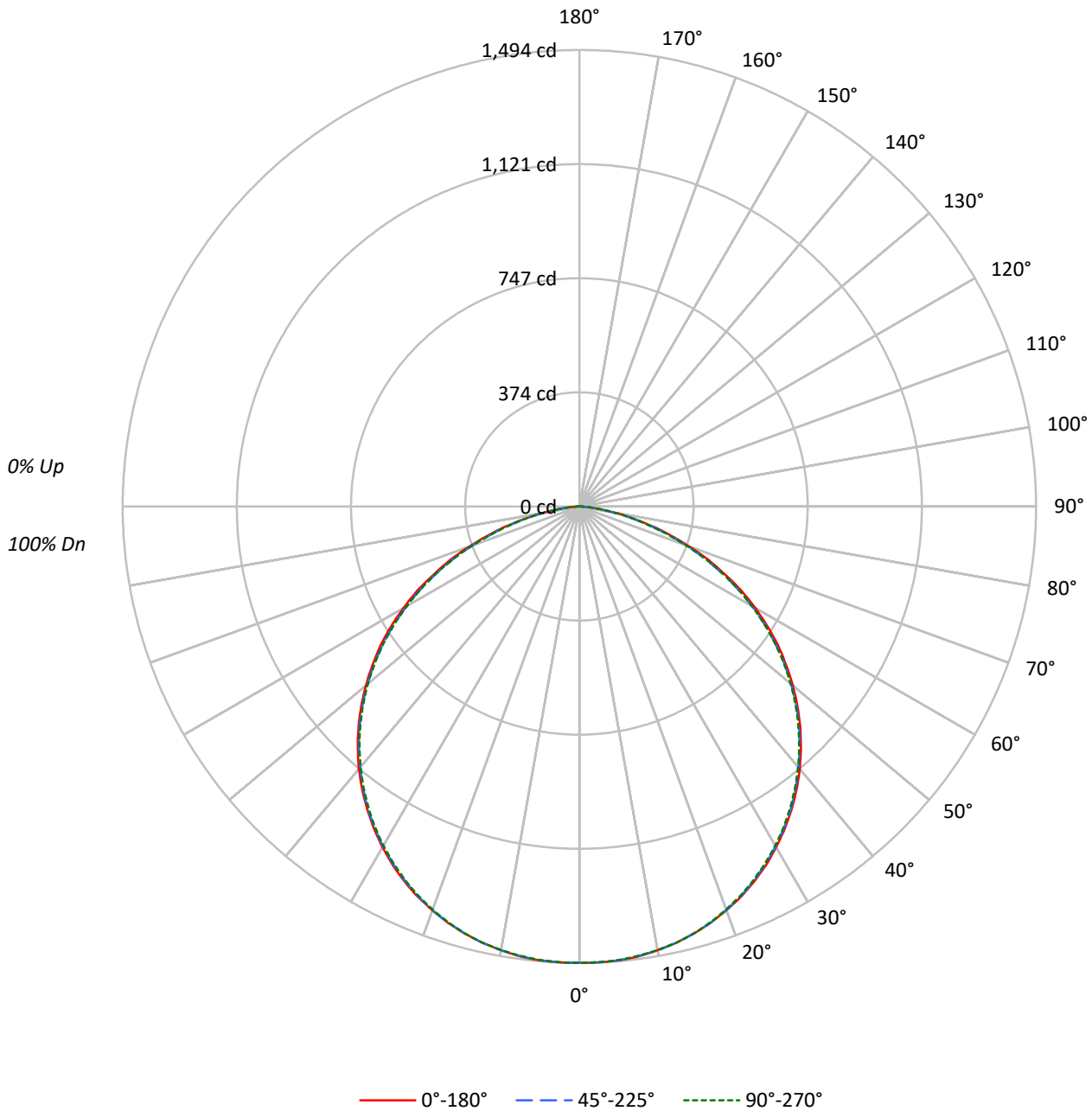
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4222.1 lumens
Efficiency: N/A
Efficacy: 95.7 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): 44.1
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										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	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°	2010	2010	2010
5°	2014	2014	2013
10°	2015	2015	2014
15°	2016	2015	2015
20°	2014	2013	2010
25°	2010	2006	2003
30°	2001	1995	1991
35°	1988	1983	1976
40°	1971	1958	1955
45°	1945	1934	1928
50°	1909	1894	1888
55°	1863	1837	1834
60°	1786	1754	1754
65°	1671	1631	1636
70°	1504	1457	1453
75°	1262	1212	1207
80°	922	876	914
85°	522	480	488

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1945 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	3.4
10°-20°	408.5	9.7
20°-30°	622.8	14.8
30°-40°	754.6	17.9
40°-50°	783.8	18.6
50°-60°	701.2	16.6
60°-70°	511.1	12.1
70°-80°	253.1	6.0
80°-90°	45.2	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°	1173.1	27.8
0°-40°	1927.7	45.7
0°-60°	3412.8	80.8
0°-90°	4222.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4222.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1494	1494	1494	1494	1494	
5°	1491	1492	1491	1491	1490	142
15°	1447	1447	1447	1448	1447	409
25°	1354	1352	1351	1351	1349	624
35°	1210	1209	1207	1205	1203	757
45°	1022	1020	1016	1014	1013	788
55°	794	788	783	783	782	708
65°	525	520	512	515	514	520
75°	243	239	233	238	232	259
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°	1493.9	1493.9	1493.9	1493.9	1493.9
2.5°	1493.9	1493.3	1493.3	1493.9	1492.8
5°	1491.2	1491.7	1491.2	1491.2	1490.1
7.5°	1485.3	1484.8	1484.2	1484.8	1483.2
10°	1475.1	1475.1	1474.6	1475.1	1474.0
12.5°	1462.8	1462.8	1462.8	1463.3	1462.8
15°	1447.2	1446.7	1446.7	1447.8	1446.7
17.5°	1429.0	1428.5	1428.5	1427.9	1426.9
20°	1406.5	1406.5	1406.0	1405.4	1403.8
22.5°	1382.4	1381.8	1380.2	1380.2	1378.1
25°	1354.0	1352.4	1351.3	1350.8	1349.1
27.5°	1322.9	1320.7	1319.1	1318.1	1316.5
30°	1288.0	1285.9	1284.3	1282.7	1281.6
32.5°	1250.5	1249.4	1246.8	1246.2	1244.1
35°	1210.3	1208.7	1207.1	1205.0	1202.8
37.5°	1167.4	1165.8	1162.1	1161.0	1159.4
40°	1121.9	1119.7	1114.9	1114.9	1113.3
42.5°	1073.1	1071.0	1067.7	1065.6	1064.5
45°	1022.2	1020.0	1016.3	1014.1	1013.1
47.5°	968.0	966.4	962.1	960.5	958.9
50°	911.8	909.6	904.8	903.7	902.1
52.5°	852.8	851.7	845.3	844.8	843.2
55°	794.4	788.5	783.1	783.1	782.0
57.5°	730.1	725.8	718.8	718.8	717.7
60°	663.6	659.8	651.8	652.9	651.8
62.5°	598.7	590.7	583.2	586.4	583.7
65°	524.8	520.5	512.4	514.6	514.0
67.5°	457.2	449.2	441.7	446.0	443.8
70°	382.2	377.9	370.4	374.7	369.3
72.5°	311.4	307.7	300.2	305.0	299.6
75°	242.8	239.1	233.2	237.5	232.1
77.5°	178.0	175.3	169.9	174.2	175.3
80°	119.0	115.8	113.1	116.9	117.9
82.5°	69.7	67.5	66.5	67.0	69.7
85°	33.8	31.1	31.1	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)