

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: P974134

Luminaire Tested: FLR2-24-55-L930-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974134
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-L930-CP187
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L930-CP187
Ballast/Driver: -

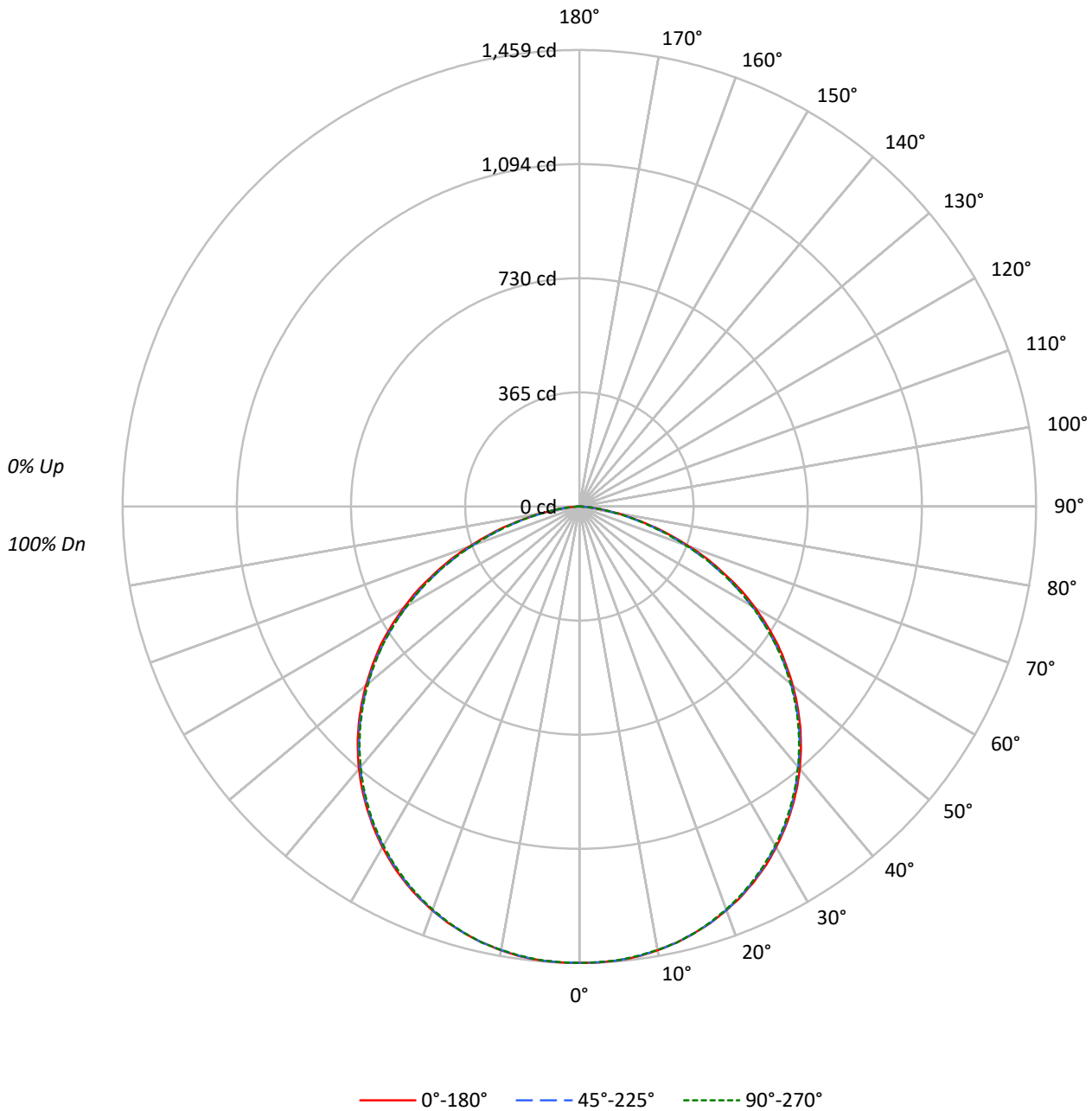
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4122.8 lumens
Efficiency: N/A
Efficacy: 93.5 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	100	100	100	100	100														
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85	85	85	85	85	85	85														
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71	71	71	71	71	71	71														
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60	60	60	60	60	60	60														
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51	51	51	51	51	51	51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44	44	44	44	44	44	44														
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38	38	38	38	38	38	38														
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34	34	34	34	34	34	34														
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30	30	30	30	30	30	30														
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27	27	27	27	27	27	27														
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25	25	25	25	25	25	25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1963	1963	1963
5°	1967	1967	1965
10°	1968	1967	1967
15°	1969	1968	1968
20°	1966	1966	1963
25°	1963	1959	1956
30°	1954	1948	1944
35°	1941	1936	1929
40°	1924	1912	1909
45°	1899	1888	1882
50°	1864	1849	1844
55°	1820	1794	1791
60°	1744	1713	1713
65°	1631	1593	1598
70°	1468	1423	1419
75°	1233	1184	1178
80°	900	855	892
85°	509	469	477

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1899 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	3.4
10°-20°	398.9	9.7
20°-30°	608.2	14.8
30°-40°	736.8	17.9
40°-50°	765.4	18.6
50°-60°	684.7	16.6
60°-70°	499.0	12.1
70°-80°	247.1	6.0
80°-90°	44.2	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°	1145.5	27.8
0°-40°	1882.4	45.7
0°-60°	3332.5	80.8
0°-90°	4122.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4122.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1459	1459	1459	1459	1459	
5°	1456	1457	1456	1456	1455	138
15°	1413	1413	1413	1414	1413	399
25°	1322	1320	1320	1319	1317	609
35°	1182	1180	1179	1177	1174	739
45°	998	996	992	990	989	769
55°	776	770	765	765	764	691
65°	512	508	500	502	502	508
75°	237	233	228	232	227	253
85°	33	30	30	31	31	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1458.7	1458.7	1458.7	1458.7	1458.7
2.5°	1458.7	1458.2	1458.2	1458.7	1457.7
5°	1456.1	1456.6	1456.1	1456.1	1455.1
7.5°	1450.3	1449.8	1449.3	1449.8	1448.3
10°	1440.4	1440.4	1439.9	1440.4	1439.4
12.5°	1428.4	1428.4	1428.4	1428.9	1428.4
15°	1413.2	1412.7	1412.7	1413.7	1412.7
17.5°	1395.4	1394.9	1394.9	1394.3	1393.3
20°	1373.4	1373.4	1372.9	1372.4	1370.8
22.5°	1349.9	1349.3	1347.8	1347.8	1345.7
25°	1322.1	1320.5	1319.5	1319.0	1317.4
27.5°	1291.8	1289.7	1288.1	1287.0	1285.5
30°	1257.7	1255.6	1254.1	1252.5	1251.5
32.5°	1221.1	1220.1	1217.4	1216.9	1214.8
35°	1181.8	1180.3	1178.7	1176.6	1174.5
37.5°	1140.0	1138.4	1134.7	1133.7	1132.1
40°	1095.5	1093.4	1088.7	1088.7	1087.1
42.5°	1047.9	1045.8	1042.6	1040.5	1039.5
45°	998.1	996.0	992.4	990.3	989.2
47.5°	945.3	943.7	939.5	937.9	936.4
50°	890.3	888.2	883.5	882.5	880.9
52.5°	832.7	831.7	825.4	824.9	823.3
55°	775.7	769.9	764.7	764.7	763.6
57.5°	712.9	708.7	701.9	701.9	700.8
60°	648.0	644.3	636.5	637.5	636.5
62.5°	584.6	576.8	569.5	572.6	570.0
65°	512.4	508.2	500.4	502.5	501.9
67.5°	446.5	438.6	431.3	435.5	433.4
70°	373.2	369.0	361.7	365.9	360.6
72.5°	304.1	300.4	293.1	297.8	292.6
75°	237.1	233.4	227.7	231.9	226.6
77.5°	173.8	171.2	165.9	170.1	171.2
80°	116.2	113.1	110.4	114.1	115.1
82.5°	68.0	65.9	64.9	65.4	68.0
85°	33.0	30.4	30.4	30.9	30.9
87.5°	8.9	7.9	8.9	9.4	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)