

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: P974486

Luminaire Tested: FLR2-24-55-L950-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974486
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-L950-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L950-CP375
Ballast/Driver: -

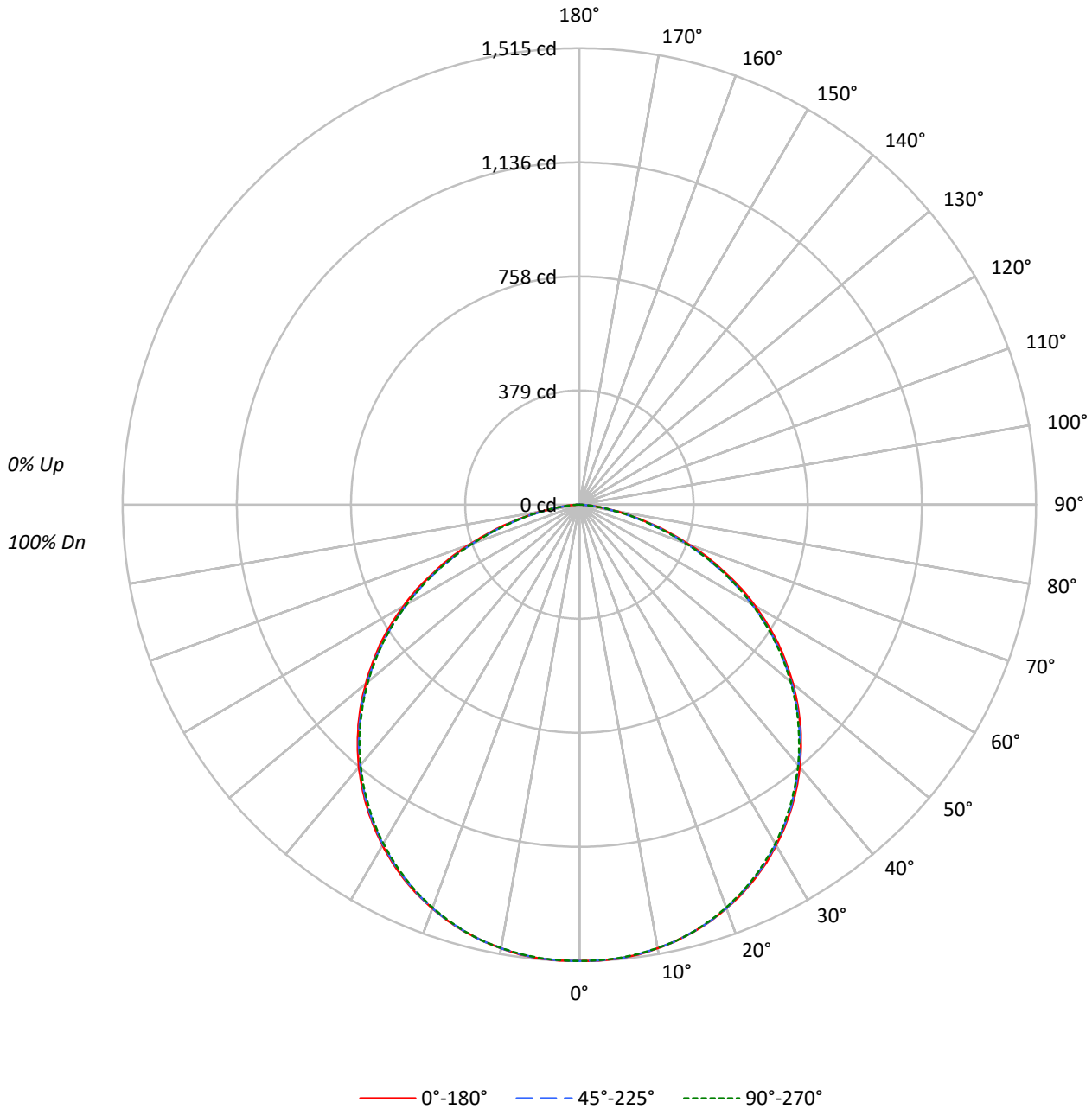
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4282.1 lumens
Efficiency: N/A
Efficacy: 97.1 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): 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				20	
RC	80				70				50				30				10	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2039	2039	2039
5°	2043	2043	2041
10°	2044	2043	2043
15°	2045	2044	2044
20°	2043	2042	2039
25°	2039	2035	2031
30°	2030	2024	2019
35°	2016	2011	2004
40°	1998	1986	1983
45°	1973	1961	1955
50°	1936	1921	1915
55°	1890	1863	1860
60°	1811	1779	1779
65°	1694	1655	1660
70°	1525	1478	1474
75°	1280	1229	1224
80°	935	889	927
85°	528	486	496

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1973 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.8	3.4
10°-20°	414.3	9.7
20°-30°	631.7	14.8
30°-40°	765.3	17.9
40°-50°	795.0	18.6
50°-60°	711.1	16.6
60°-70°	518.3	12.1
70°-80°	256.7	6.0
80°-90°	45.9	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°	1189.8	27.8
0°-40°	1955.1	45.7
0°-60°	3461.2	80.8
0°-90°	4282.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4282.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1515	1515	1515	1515	1515	
5°	1512	1513	1512	1512	1511	144
15°	1468	1467	1467	1468	1467	414
25°	1373	1372	1370	1370	1368	633
35°	1228	1226	1224	1222	1220	768
45°	1037	1034	1031	1028	1027	799
55°	806	800	794	794	793	718
65°	532	528	520	522	521	528
75°	246	242	236	241	235	263
85°	34	32	32	32	32	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1515.1	1515.1	1515.1	1515.1	1515.1
2.5°	1515.1	1514.5	1514.5	1515.1	1514.0
5°	1512.4	1512.9	1512.4	1512.4	1511.3
7.5°	1506.4	1505.8	1505.3	1505.8	1504.2
10°	1496.0	1496.0	1495.5	1496.0	1495.0
12.5°	1483.5	1483.5	1483.5	1484.1	1483.5
15°	1467.8	1467.2	1467.2	1468.3	1467.2
17.5°	1449.3	1448.8	1448.8	1448.2	1447.1
20°	1426.5	1426.5	1425.9	1425.4	1423.7
22.5°	1402.0	1401.5	1399.8	1399.8	1397.7
25°	1373.2	1371.6	1370.5	1369.9	1368.3
27.5°	1341.7	1339.5	1337.9	1336.8	1335.1
30°	1306.3	1304.1	1302.5	1300.9	1299.8
32.5°	1268.3	1267.2	1264.5	1263.9	1261.7
35°	1227.5	1225.9	1224.2	1222.1	1219.9
37.5°	1184.0	1182.4	1178.6	1177.5	1175.9
40°	1137.8	1135.6	1130.7	1130.7	1129.1
42.5°	1088.3	1086.2	1082.9	1080.7	1079.6
45°	1036.7	1034.5	1030.7	1028.5	1027.4
47.5°	981.8	980.2	975.8	974.2	972.5
50°	924.7	922.5	917.6	916.5	914.9
52.5°	864.9	863.8	857.3	856.7	855.1
55°	805.6	799.7	794.2	794.2	793.1
57.5°	740.4	736.1	729.0	729.0	727.9
60°	673.0	669.2	661.0	662.1	661.0
62.5°	607.2	599.1	591.5	594.7	592.0
65°	532.2	527.9	519.7	521.9	521.3
67.5°	463.7	455.6	447.9	452.3	450.1
70°	387.6	383.3	375.6	380.0	374.6
72.5°	315.8	312.0	304.4	309.3	303.9
75°	246.3	242.5	236.5	240.8	235.4
77.5°	180.5	177.8	172.3	176.7	177.8
80°	120.7	117.4	114.7	118.5	119.6
82.5°	70.7	68.5	67.4	68.0	70.7
85°	34.2	31.5	31.5	32.1	32.1
87.5°	9.2	8.2	9.2	9.8	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)