

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: P974494

Luminaire Tested: FLR2-24-55-L950-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974494
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L950-CA080
Ballast/Driver: -

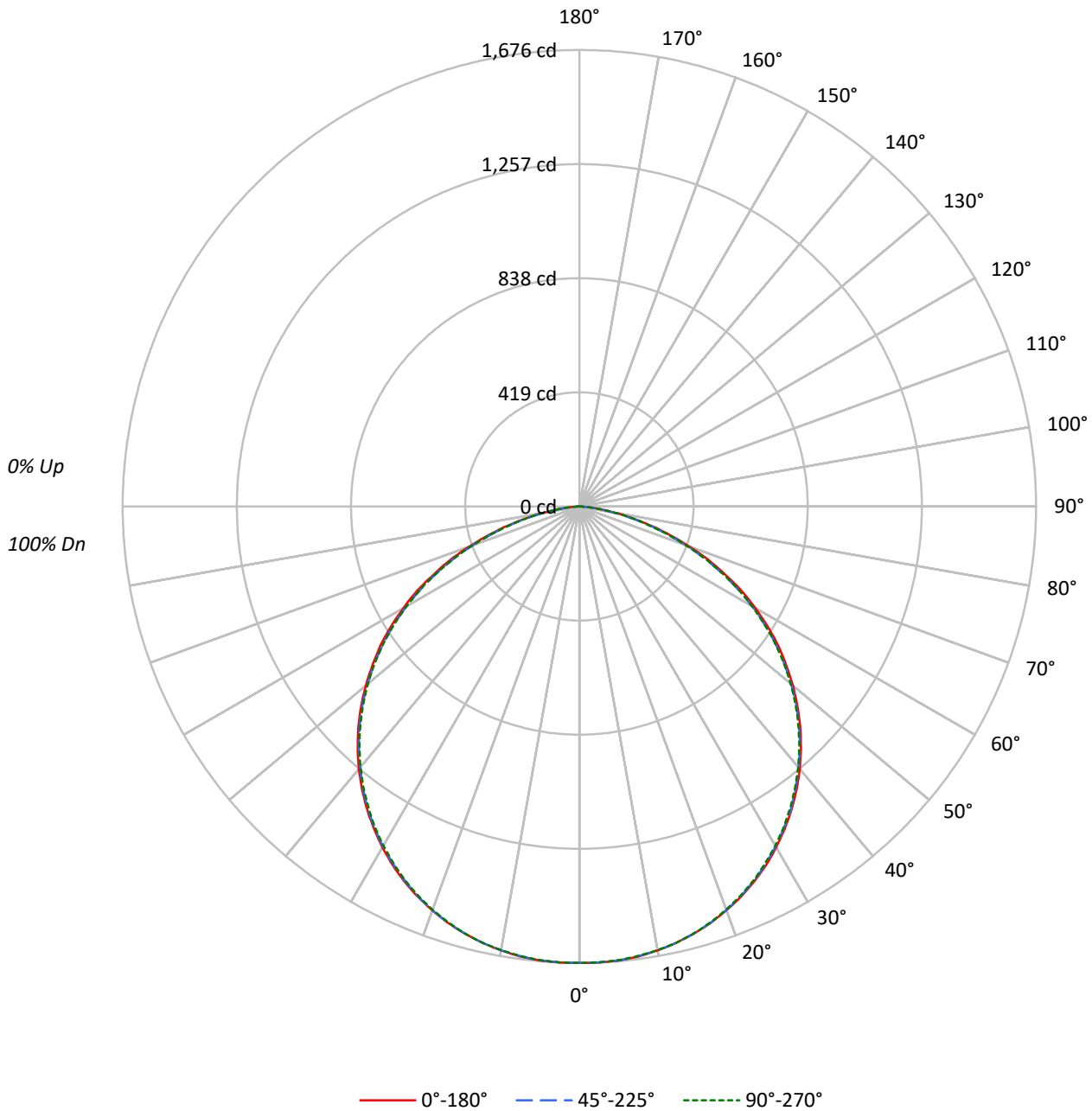
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4737.5 lumens
Efficiency: N/A
Efficacy: 107.4 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	0
RW	70	50	30	10	70	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
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°	2255	2255	2255
5°	2260	2260	2258
10°	2261	2261	2260
15°	2262	2261	2261
20°	2260	2259	2255
25°	2255	2251	2247
30°	2245	2239	2234
35°	2231	2225	2217
40°	2211	2197	2194
45°	2183	2170	2163
50°	2142	2125	2119
55°	2091	2061	2058
60°	2004	1968	1968
65°	1875	1831	1836
70°	1687	1635	1630
75°	1417	1360	1354
80°	1034	983	1025
85°	585	539	548

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2183 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.1	3.4
10°-20°	458.4	9.7
20°-30°	698.9	14.8
30°-40°	846.7	17.9
40°-50°	879.5	18.6
50°-60°	786.8	16.6
60°-70°	573.4	12.1
70°-80°	284.0	6.0
80°-90°	50.8	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°	1316.3	27.8
0°-40°	2163.0	45.7
0°-60°	3829.3	80.8
0°-90°	4737.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4737.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1676	1676	1676	1676	1676	
5°	1673	1674	1673	1673	1672	159
15°	1624	1623	1623	1624	1623	458
25°	1519	1517	1516	1516	1514	700
35°	1358	1356	1354	1352	1350	849
45°	1147	1144	1140	1138	1137	884
55°	891	885	879	879	878	794
65°	589	584	575	577	577	584
75°	272	268	262	266	260	291
85°	38	35	35	36	36	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1676.2	1676.2	1676.2	1676.2	1676.2
2.5°	1676.2	1675.6	1675.6	1676.2	1675.0
5°	1673.2	1673.8	1673.2	1673.2	1672.0
7.5°	1666.6	1666.0	1665.4	1666.0	1664.2
10°	1655.2	1655.2	1654.6	1655.2	1654.0
12.5°	1641.3	1641.3	1641.3	1641.9	1641.3
15°	1623.9	1623.3	1623.3	1624.5	1623.3
17.5°	1603.4	1602.8	1602.8	1602.2	1601.0
20°	1578.2	1578.2	1577.6	1577.0	1575.2
22.5°	1551.1	1550.5	1548.7	1548.7	1546.3
25°	1519.2	1517.4	1516.2	1515.6	1513.8
27.5°	1484.4	1482.0	1480.2	1478.9	1477.1
30°	1445.3	1442.9	1441.1	1439.3	1438.0
32.5°	1403.2	1402.0	1399.0	1398.4	1395.9
35°	1358.1	1356.3	1354.4	1352.0	1349.6
37.5°	1309.9	1308.1	1303.9	1302.7	1300.9
40°	1258.8	1256.4	1251.0	1251.0	1249.2
42.5°	1204.1	1201.7	1198.1	1195.7	1194.5
45°	1147.0	1144.5	1140.3	1137.9	1136.7
47.5°	1086.2	1084.4	1079.6	1077.8	1076.0
50°	1023.1	1020.6	1015.2	1014.0	1012.2
52.5°	956.9	955.7	948.5	947.9	946.1
55°	891.3	884.7	878.7	878.7	877.5
57.5°	819.2	814.4	806.5	806.5	805.3
60°	744.6	740.4	731.4	732.6	731.4
62.5°	671.8	662.8	654.4	658.0	655.0
65°	588.8	584.0	575.0	577.4	576.8
67.5°	513.0	504.0	495.6	500.4	498.0
70°	428.8	424.0	415.6	420.4	414.4
72.5°	349.4	345.2	336.8	342.2	336.2
75°	272.5	268.2	261.6	266.4	260.4
77.5°	199.7	196.7	190.7	195.5	196.7
80°	133.5	129.9	126.9	131.1	132.3
82.5°	78.2	75.8	74.6	75.2	78.2
85°	37.9	34.9	34.9	35.5	35.5
87.5°	10.2	9.0	10.2	10.8	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)