

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: P974270

Luminaire Tested: FLR2-24-55-L935-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974270
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L935-CA080
Ballast/Driver: -

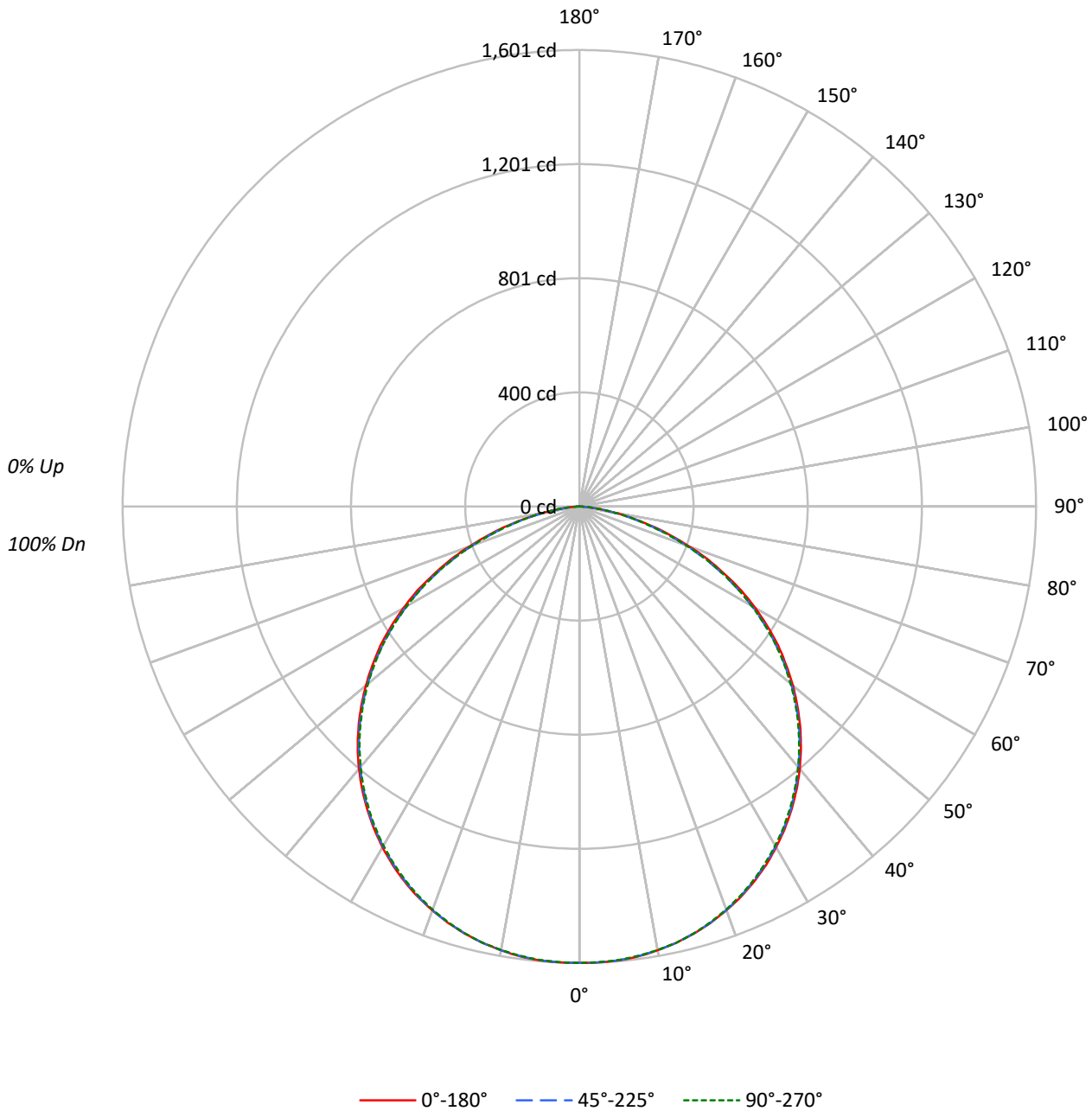
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4524.6 lumens
Efficiency: N/A
Efficacy: 102.6 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): 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°	2154	2154	2154
5°	2158	2158	2157
10°	2160	2159	2158
15°	2160	2159	2159
20°	2158	2157	2154
25°	2154	2150	2146
30°	2144	2138	2134
35°	2130	2125	2117
40°	2112	2099	2096
45°	2084	2072	2066
50°	2045	2030	2024
55°	1997	1969	1966
60°	1914	1880	1880
65°	1790	1748	1754
70°	1611	1561	1557
75°	1353	1299	1293
80°	988	939	979
85°	559	514	523

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2084 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.0	3.4
10°-20°	437.8	9.7
20°-30°	667.4	14.8
30°-40°	808.7	17.9
40°-50°	840.0	18.6
50°-60°	751.4	16.6
60°-70°	547.7	12.1
70°-80°	271.2	6.0
80°-90°	48.5	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°	1257.2	27.8
0°-40°	2065.8	45.7
0°-60°	3657.2	80.8
0°-90°	4524.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4524.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1601	1601	1601	1601	1601	
5°	1598	1599	1598	1598	1597	152
15°	1551	1550	1550	1552	1550	438
25°	1451	1449	1448	1448	1446	669
35°	1297	1295	1294	1291	1289	811
45°	1095	1093	1089	1087	1086	844
55°	851	845	839	839	838	758
65°	562	558	549	551	551	557
75°	260	256	250	254	249	277
85°	36	33	33	34	34	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1600.9	1600.9	1600.9	1600.9	1600.9
2.5°	1600.9	1600.3	1600.3	1600.9	1599.7
5°	1598.0	1598.6	1598.0	1598.0	1596.9
7.5°	1591.7	1591.1	1590.5	1591.1	1589.4
10°	1580.8	1580.8	1580.2	1580.8	1579.6
12.5°	1567.6	1567.6	1567.6	1568.1	1567.6
15°	1550.9	1550.3	1550.3	1551.5	1550.3
17.5°	1531.4	1530.8	1530.8	1530.2	1529.1
20°	1507.3	1507.3	1506.7	1506.1	1504.4
22.5°	1481.4	1480.8	1479.1	1479.1	1476.8
25°	1451.0	1449.2	1448.1	1447.5	1445.8
27.5°	1417.6	1415.3	1413.6	1412.5	1410.8
30°	1380.3	1378.0	1376.3	1374.6	1373.4
32.5°	1340.1	1339.0	1336.1	1335.5	1333.2
35°	1297.0	1295.3	1293.6	1291.3	1289.0
37.5°	1251.1	1249.3	1245.3	1244.2	1242.5
40°	1202.2	1199.9	1194.8	1194.8	1193.1
42.5°	1150.0	1147.7	1144.2	1141.9	1140.8
45°	1095.4	1093.1	1089.1	1086.8	1085.6
47.5°	1037.4	1035.7	1031.1	1029.3	1027.6
50°	977.1	974.8	969.6	968.5	966.7
52.5°	913.9	912.7	905.8	905.3	903.5
55°	851.3	845.0	839.2	839.2	838.1
57.5°	782.3	777.8	770.3	770.3	769.1
60°	711.1	707.1	698.5	699.6	698.5
62.5°	641.6	633.0	625.0	628.4	625.5
65°	562.3	557.8	549.1	551.4	550.9
67.5°	490.0	481.4	473.3	477.9	475.6
70°	409.6	405.0	396.9	401.5	395.8
72.5°	333.7	329.7	321.7	326.8	321.1
75°	260.2	256.2	249.9	254.5	248.7
77.5°	190.7	187.8	182.1	186.7	187.8
80°	127.5	124.1	121.2	125.2	126.4
82.5°	74.7	72.4	71.2	71.8	74.7
85°	36.2	33.3	33.3	33.9	33.9
87.5°	9.8	8.6	9.8	10.3	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)