

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: P974490

Luminaire Tested: FLR2-24-30-L950-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974490
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: FLR2-24-30-L950-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L950-CA080
Ballast/Driver: -

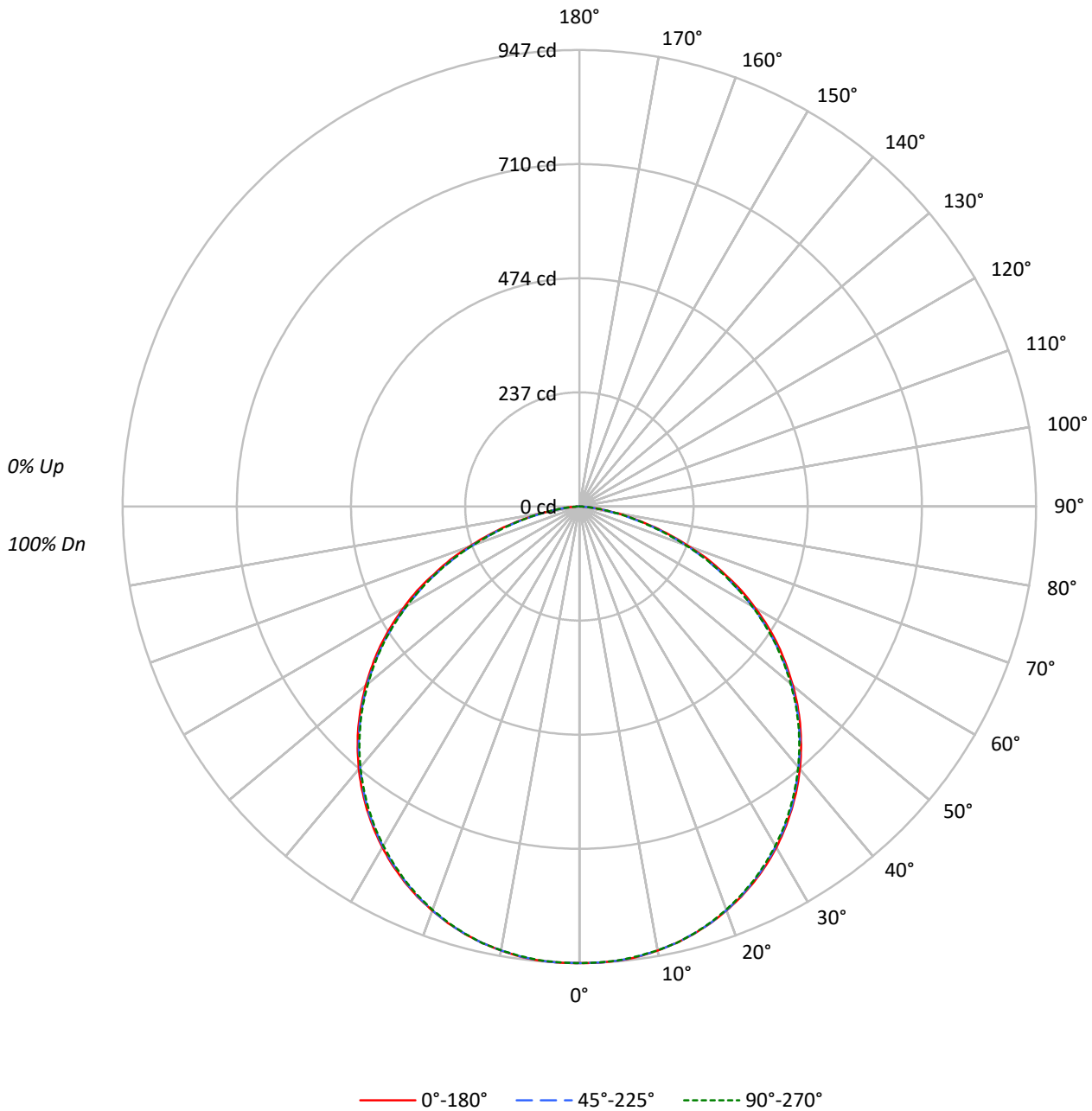
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2677.8 lumens
Efficiency: N/A
Efficacy: 113.0 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): 23.7
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°	1275	1275	1275
5°	1277	1277	1276
10°	1278	1278	1277
15°	1279	1278	1278
20°	1277	1277	1275
25°	1275	1272	1270
30°	1269	1265	1263
35°	1261	1258	1253
40°	1250	1242	1240
45°	1234	1226	1223
50°	1211	1201	1198
55°	1182	1165	1164
60°	1133	1112	1112
65°	1060	1035	1038
70°	954	924	921
75°	801	769	765
80°	585	556	580
85°	330	304	310

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1234 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	3.4
10°-20°	259.1	9.7
20°-30°	395.0	14.8
30°-40°	478.6	17.9
40°-50°	497.1	18.6
50°-60°	444.7	16.6
60°-70°	324.1	12.1
70°-80°	160.5	6.0
80°-90°	28.7	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°	744.0	27.8
0°-40°	1222.6	45.7
0°-60°	2164.4	80.8
0°-90°	2677.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2677.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	947	947	947	947	947	
5°	946	946	946	946	945	90
15°	918	918	918	918	918	259
25°	859	858	857	857	856	396
35°	768	767	766	764	763	480
45°	648	647	644	643	642	500
55°	504	500	497	497	496	449
65°	333	330	325	326	326	330
75°	154	152	148	151	147	164
85°	21	20	20	20	20	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	947.4	947.4	947.4	947.4	947.4
2.5°	947.4	947.1	947.1	947.4	946.8
5°	945.7	946.1	945.7	945.7	945.1
7.5°	942.0	941.7	941.3	941.7	940.6
10°	935.5	935.5	935.2	935.5	934.9
12.5°	927.7	927.7	927.7	928.1	927.7
15°	917.9	917.5	917.5	918.2	917.5
17.5°	906.3	906.0	906.0	905.6	904.9
20°	892.0	892.0	891.7	891.4	890.3
22.5°	876.7	876.4	875.4	875.4	874.0
25°	858.7	857.7	857.0	856.7	855.7
27.5°	839.0	837.6	836.6	835.9	834.9
30°	816.9	815.5	814.5	813.5	812.8
32.5°	793.1	792.4	790.7	790.4	789.0
35°	767.6	766.6	765.6	764.2	762.8
37.5°	740.4	739.4	737.0	736.3	735.3
40°	711.5	710.2	707.1	707.1	706.1
42.5°	680.6	679.2	677.2	675.8	675.1
45°	648.3	646.9	644.5	643.2	642.5
47.5°	614.0	612.9	610.2	609.2	608.2
50°	578.3	576.9	573.8	573.2	572.1
52.5°	540.9	540.2	536.1	535.8	534.7
55°	503.8	500.1	496.7	496.7	496.0
57.5°	463.0	460.3	455.9	455.9	455.2
60°	420.9	418.5	413.4	414.1	413.4
62.5°	379.7	374.6	369.9	371.9	370.2
65°	332.8	330.1	325.0	326.4	326.0
67.5°	290.0	284.9	280.1	282.8	281.5
70°	242.4	239.7	234.9	237.6	234.2
72.5°	197.5	195.1	190.4	193.4	190.0
75°	154.0	151.6	147.9	150.6	147.2
77.5°	112.9	111.2	107.8	110.5	111.2
80°	75.5	73.4	71.7	74.1	74.8
82.5°	44.2	42.8	42.2	42.5	44.2
85°	21.4	19.7	19.7	20.1	20.1
87.5°	5.8	5.1	5.8	6.1	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)