

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: P974201

Luminaire Tested: FLR2-24-20-L835-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974201
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: FLR2-24-20-L835-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-20-L835-CP375
Ballast/Driver: -

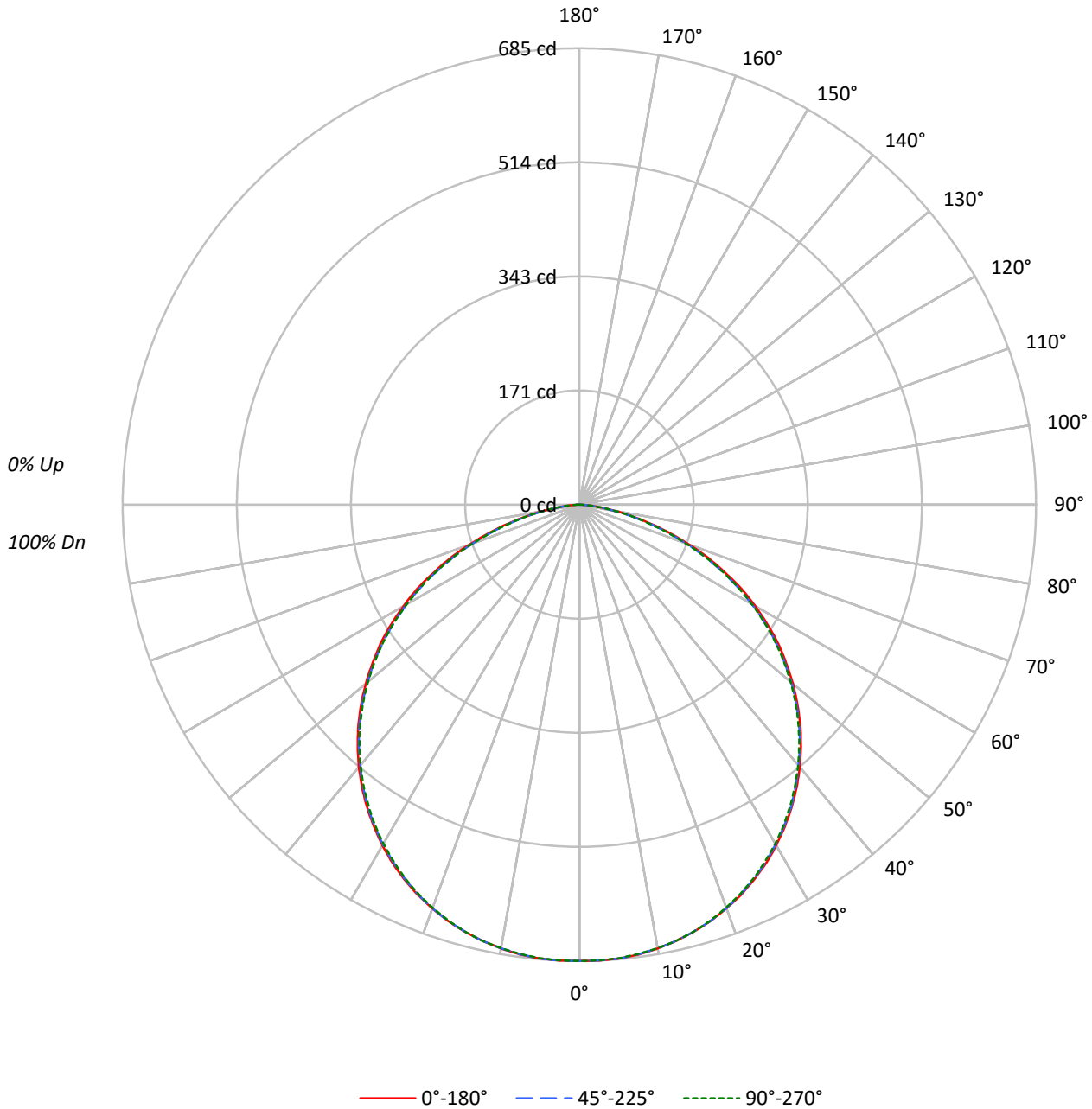
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1936.3 lumens
Efficiency: N/A
Efficacy: 115.9 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): 16.7
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	
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°	922	922	922
5°	924	924	923
10°	924	924	924
15°	925	924	924
20°	924	923	922
25°	922	920	919
30°	918	915	913
35°	912	909	906
40°	904	898	897
45°	892	887	884
50°	875	868	866
55°	855	842	841
60°	819	804	804
65°	766	748	750
70°	690	668	666
75°	579	556	553
80°	423	402	419
85°	239	221	224

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 892 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	3.4
10°-20°	187.3	9.7
20°-30°	285.6	14.8
30°-40°	346.1	17.9
40°-50°	359.5	18.6
50°-60°	321.5	16.6
60°-70°	234.4	12.1
70°-80°	116.1	6.0
80°-90°	20.8	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°	538.0	27.8
0°-40°	884.1	45.7
0°-60°	1565.1	80.8
0°-90°	1936.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1936.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	685	685	685	685	685	
5°	684	684	684	684	683	65
15°	664	664	664	664	664	187
25°	621	620	620	620	619	286
35°	555	554	554	553	552	347
45°	469	468	466	465	465	361
55°	364	362	359	359	359	325
65°	241	239	235	236	236	239
75°	111	110	107	109	106	119
85°	16	14	14	14	14	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	685.1	685.1	685.1	685.1	685.1
2.5°	685.1	684.8	684.8	685.1	684.6
5°	683.9	684.1	683.9	683.9	683.4
7.5°	681.2	680.9	680.7	680.9	680.2
10°	676.5	676.5	676.2	676.5	676.0
12.5°	670.8	670.8	670.8	671.1	670.8
15°	663.7	663.5	663.5	663.9	663.5
17.5°	655.3	655.1	655.1	654.8	654.4
20°	645.0	645.0	644.8	644.5	643.8
22.5°	634.0	633.7	633.0	633.0	632.0
25°	620.9	620.2	619.7	619.5	618.7
27.5°	606.7	605.7	604.9	604.5	603.7
30°	590.7	589.7	589.0	588.2	587.7
32.5°	573.5	573.0	571.8	571.5	570.5
35°	555.0	554.3	553.6	552.6	551.6
37.5°	535.4	534.6	532.9	532.4	531.7
40°	514.5	513.5	511.3	511.3	510.6
42.5°	492.1	491.1	489.7	488.7	488.2
45°	468.8	467.8	466.1	465.1	464.6
47.5°	443.9	443.2	441.2	440.5	439.8
50°	418.1	417.1	414.9	414.4	413.7
52.5°	391.1	390.6	387.6	387.4	386.7
55°	364.3	361.6	359.1	359.1	358.6
57.5°	334.8	332.8	329.6	329.6	329.1
60°	304.3	302.6	298.9	299.4	298.9
62.5°	274.6	270.9	267.4	268.9	267.7
65°	240.7	238.7	235.0	236.0	235.7
67.5°	209.7	206.0	202.6	204.5	203.5
70°	175.3	173.3	169.9	171.8	169.4
72.5°	142.8	141.1	137.7	139.9	137.4
75°	111.4	109.6	106.9	108.9	106.4
77.5°	81.6	80.4	77.9	79.9	80.4
80°	54.6	53.1	51.9	53.6	54.1
82.5°	32.0	31.0	30.5	30.7	32.0
85°	15.5	14.3	14.3	14.5	14.5
87.5°	4.2	3.7	4.2	4.4	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)