

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: P973658

Luminaire Tested: FLR2-22-25-L940-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-25-L940-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

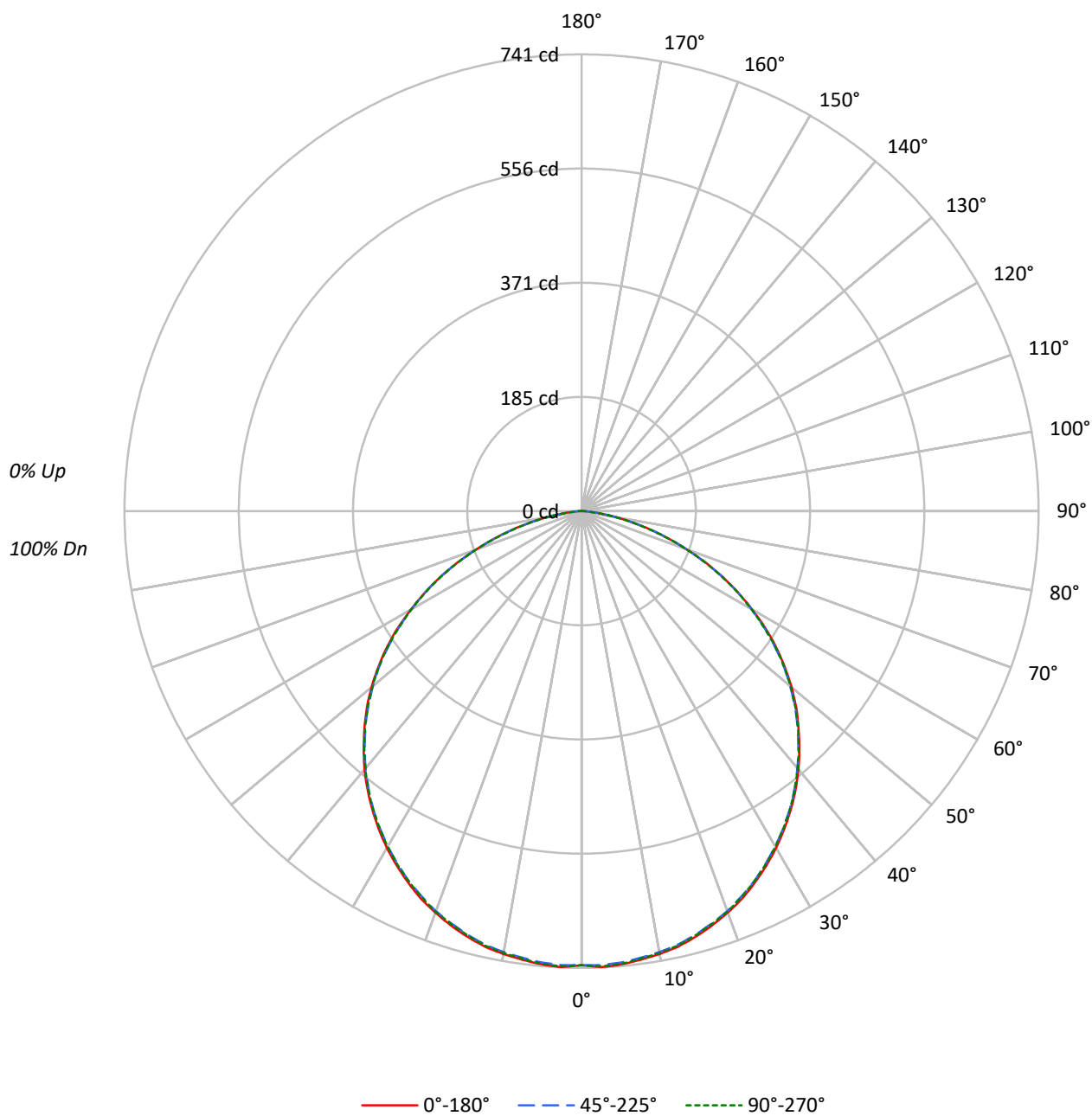
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2059.7 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 18.9
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71		71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60		60
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44		44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30		30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27		27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1982	1982	1982
5°	1994	1986	1992
10°	1994	1985	1989
15°	1992	1983	1986
20°	1985	1978	1980
25°	1975	1967	1968
30°	1961	1952	1954
35°	1943	1935	1937
40°	1923	1913	1914
45°	1894	1885	1889
50°	1861	1847	1851
55°	1808	1793	1799
60°	1719	1711	1711
65°	1605	1602	1596
70°	1421	1428	1425
75°	1197	1187	1178
80°	860	846	838
85°	451	451	435

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1894 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	3.4
10°-20°	200.6	9.7
20°-30°	304.8	14.8
30°-40°	368.4	17.9
40°-50°	382.4	18.6
50°-60°	341.9	16.6
60°-70°	248.6	12.1
70°-80°	122.2	5.9
80°-90°	21.2	1.0
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°	575.1	27.9
0°-40°	943.5	45.8
0°-60°	1667.7	81.0
0°-90°	2059.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2059.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	736	736	736	736	736	
5°	738	730	735	732	737	70
15°	715	707	712	710	713	202
25°	665	658	662	661	663	307
35°	591	587	589	590	590	370
45°	498	495	495	496	496	384
55°	385	383	382	383	384	343
65°	252	253	252	252	251	249
75°	115	116	114	115	113	122
85°	15	15	15	15	14	21
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	736.5	736.5	736.5	736.5	736.5
2.5°	740.6	732.0	737.4	734.2	739.2
5°	738.3	729.7	735.1	732.4	737.4
7.5°	734.2	725.6	731.0	728.3	732.4
10°	729.7	720.6	726.5	723.8	727.9
12.5°	723.8	715.1	720.6	718.3	722.0
15°	715.1	706.9	711.9	710.1	712.9
17.5°	704.7	696.5	701.5	700.1	702.4
20°	693.3	685.6	690.6	689.2	691.5
22.5°	680.6	672.4	676.9	676.0	677.8
25°	665.1	657.8	662.4	661.0	662.8
27.5°	648.7	641.9	645.5	645.5	646.4
30°	631.0	624.6	628.2	628.2	628.7
32.5°	611.9	606.9	609.1	609.6	609.6
35°	591.4	587.3	589.1	589.6	589.6
37.5°	570.0	565.9	567.3	568.2	568.2
40°	547.3	543.6	544.5	545.4	545.0
42.5°	522.7	520.0	520.4	521.3	521.3
45°	497.7	495.4	495.4	496.3	496.3
47.5°	472.2	469.9	469.0	469.9	469.9
50°	444.5	442.2	441.3	442.2	442.2
52.5°	415.3	413.1	413.1	413.1	413.5
55°	385.3	383.0	382.1	383.0	383.5
57.5°	353.5	352.6	351.2	351.7	350.3
60°	319.4	319.4	318.0	318.9	318.0
62.5°	286.1	287.1	285.7	285.7	284.8
65°	252.0	252.9	251.6	251.6	250.7
67.5°	217.0	218.4	216.5	216.5	215.6
70°	180.6	183.3	181.5	182.0	181.1
72.5°	147.8	149.2	147.4	147.4	146.5
75°	115.1	116.0	114.2	114.6	113.3
77.5°	82.8	84.2	82.3	82.8	82.3
80°	55.5	56.0	54.6	55.0	54.1
82.5°	32.3	32.8	32.3	31.8	31.4
85°	14.6	15.0	14.6	14.6	14.1
87.5°	3.6	3.6	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)