

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P997330

Luminaire Tested: FSP-22-L3C3-CA08-3500K-LOW

Issue Date: 6/20/2025

Test Information

Test Method: LM-79-2019
Report Number: P997330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-8)
Test Lab: INNOVATION CENTER
Issue Date: 6/20/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FSP-22-L3C3-CA08-3500K-LOW
Description: Fail-Safe Sealed Selectable Panel Clear Outer Lens/Frosted Inner Lens
Light Source: -
Ballast/Driver: -

Summary

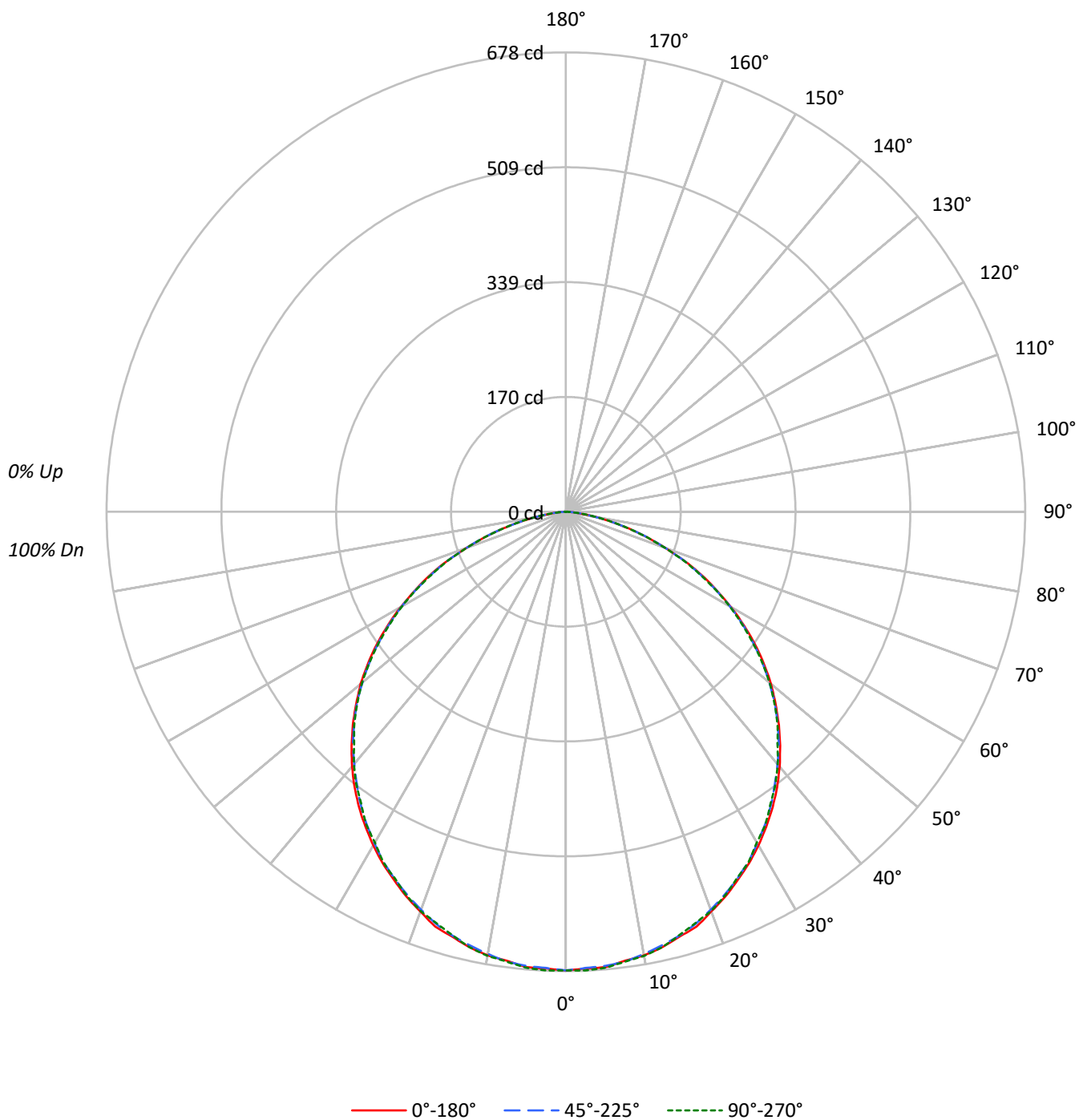
Lumens per Lamp: N/A
Luminaire Lumens: 1836.0 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1.81' x L: 1.81' x H: 0')
CIE Type: Direct

Input Watts (W): 16
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	103	99	95	98	95	92		94	92	90		91
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	66	89	79	72	66	76	70	65		73	68	63		71
4	83	72	63	56	81	70	62	56	68	61	55		65	59	54		63
5	77	64	55	49	75	63	55	48	61	53	48		59	52	47		57
6	71	58	49	42	69	57	48	42	55	47	42		53	47	41		52
7	66	52	44	37	64	51	43	37	50	42	37		48	42	37		47
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40
10	54	40	33	27	52	40	32	27	39	32	27		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2218	2218	2218
5°	2219	2212	2221
10°	2212	2205	2214
15°	2202	2197	2194
20°	2189	2179	2186
25°	2169	2161	2159
30°	2151	2138	2132
35°	2129	2112	2106
40°	2100	2078	2081
45°	2060	2047	2047
50°	2016	1998	2001
55°	1946	1929	1925
60°	1844	1835	1830
65°	1718	1696	1690
70°	1494	1494	1488
75°	1227	1218	1218
80°	874	847	887
85°	455	455	455

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2060 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	3.5
10°-20°	182.8	10.0
20°-30°	275.9	15.0
30°-40°	331.3	18.0
40°-50°	341.5	18.6
50°-60°	302.5	16.5
60°-70°	216.6	11.8
70°-80°	103.5	5.6
80°-90°	18.0	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°	522.7	28.5
0°-40°	853.9	46.5
0°-60°	1497.9	81.6
0°-90°	1836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1836.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	677	677	677	677	677	
5°	675	673	673	673	675	64
15°	649	650	648	646	647	183
25°	600	599	598	598	597	277
35°	532	532	528	529	526	333
45°	445	445	442	441	442	343
55°	341	342	338	338	337	304
65°	222	220	219	218	218	218
75°	97	95	96	98	96	103
85°	12	13	12	12	12	18
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	676.9	676.9	676.9	676.9	676.9
2.5°	674.7	674.7	674.0	675.4	677.6
5°	674.7	672.6	672.6	673.3	675.4
7.5°	668.3	669.0	669.7	668.3	669.7
10°	664.8	663.3	662.6	664.0	665.5
12.5°	658.3	656.9	655.5	656.9	658.3
15°	649.1	649.8	647.7	646.2	646.9
17.5°	642.0	637.7	637.7	637.0	636.3
20°	627.7	626.3	624.9	625.6	627.0
22.5°	614.9	614.2	612.0	612.7	613.5
25°	599.9	599.2	597.8	597.8	597.1
27.5°	585.0	584.2	582.8	582.1	583.5
30°	568.6	569.3	565.0	565.0	563.6
32.5°	550.8	550.8	547.2	545.8	547.9
35°	532.2	532.2	528.0	529.4	526.5
37.5°	512.3	513.7	506.6	508.7	508.0
40°	490.9	489.5	485.9	490.2	486.6
42.5°	468.1	470.2	465.3	465.3	462.4
45°	444.6	444.6	441.7	441.0	441.7
47.5°	419.7	420.4	418.2	418.9	417.5
50°	395.4	394.7	391.9	391.2	392.6
52.5°	368.4	369.1	365.5	366.2	365.5
55°	340.6	342.0	337.7	337.7	337.0
57.5°	311.4	311.4	309.2	309.2	307.8
60°	281.4	283.6	280.0	280.0	279.3
62.5°	250.8	250.8	249.4	250.1	248.7
65°	221.6	220.2	218.7	218.0	218.0
67.5°	189.5	188.1	189.5	187.4	188.1
70°	156.0	156.7	156.0	156.0	155.3
72.5°	126.1	126.1	126.8	126.1	126.1
75°	96.9	94.8	96.2	97.6	96.2
77.5°	68.4	68.4	69.8	69.8	70.5
80°	46.3	44.9	44.9	46.3	47.0
82.5°	25.6	26.4	26.4	26.4	26.4
85°	12.1	12.8	12.1	12.1	12.1
87.5°	5.7	5.7	5.0	4.3	3.6
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.52	16.13	14.88	16.44	16.76	14.46	16.07	14.83	16.39	16.70
	3H	16.06	17.51	16.43	17.84	18.20	16.01	17.46	16.38	17.79	18.15
	4H	16.52	17.88	16.92	18.23	18.61	16.48	17.84	16.88	18.19	18.57
	6H	16.75	18.02	17.16	18.38	18.77	16.73	18.00	17.14	18.36	18.75
	8H	16.79	17.99	17.21	18.38	18.78	16.77	17.98	17.20	18.37	18.77
	12H	16.79	17.95	17.22	18.33	18.76	16.78	17.93	17.21	18.31	18.74
4H	2H	15.08	16.45	15.48	16.80	17.17	15.04	16.40	15.44	16.75	17.13
	3H	16.81	17.95	17.22	18.35	18.75	16.77	17.91	17.18	18.31	18.71
	4H	17.36	18.38	17.79	18.80	19.23	17.34	18.37	17.77	18.78	19.22
	6H	17.67	18.57	18.13	19.01	19.46	17.68	18.57	18.13	19.01	19.47
	8H	17.73	18.56	18.19	19.01	19.47	17.73	18.57	18.20	19.01	19.48
	12H	17.75	18.50	18.23	18.97	19.44	17.76	18.50	18.24	18.98	19.45
8H	4H	17.56	18.39	18.02	18.83	19.30	17.54	18.37	18.00	18.82	19.28
	6H	17.93	18.62	18.42	19.11	19.58	17.93	18.62	18.43	19.11	19.59
	8H	18.01	18.63	18.52	19.14	19.62	18.02	18.64	18.53	19.15	19.63
	12H	18.06	18.60	18.57	19.09	19.66	18.07	18.61	18.57	19.10	19.66
12H	4H	17.56	18.31	18.04	18.78	19.25	17.54	18.29	18.02	18.77	19.24
	6H	17.93	18.55	18.44	19.06	19.54	17.94	18.55	18.45	19.06	19.55
	8H	18.05	18.59	18.56	19.08	19.65	18.06	18.60	18.56	19.09	19.65