

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: P997386

Luminaire Tested: FSP-24-L3C3-CA08-4000K-HI

Issue Date: 6/20/2025

Test Information

Test Method: LM-79-2019
Report Number: P997386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-14)
Test Lab: INNOVATION CENTER
Issue Date: 6/20/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FSP-24-L3C3-CA08-4000K-HI
Description: Fail-Safe Sealed Selectable Panel Clear Outer Lens/Frosted Inner Lens
Light Source: -
Ballast/Driver: -

Summary

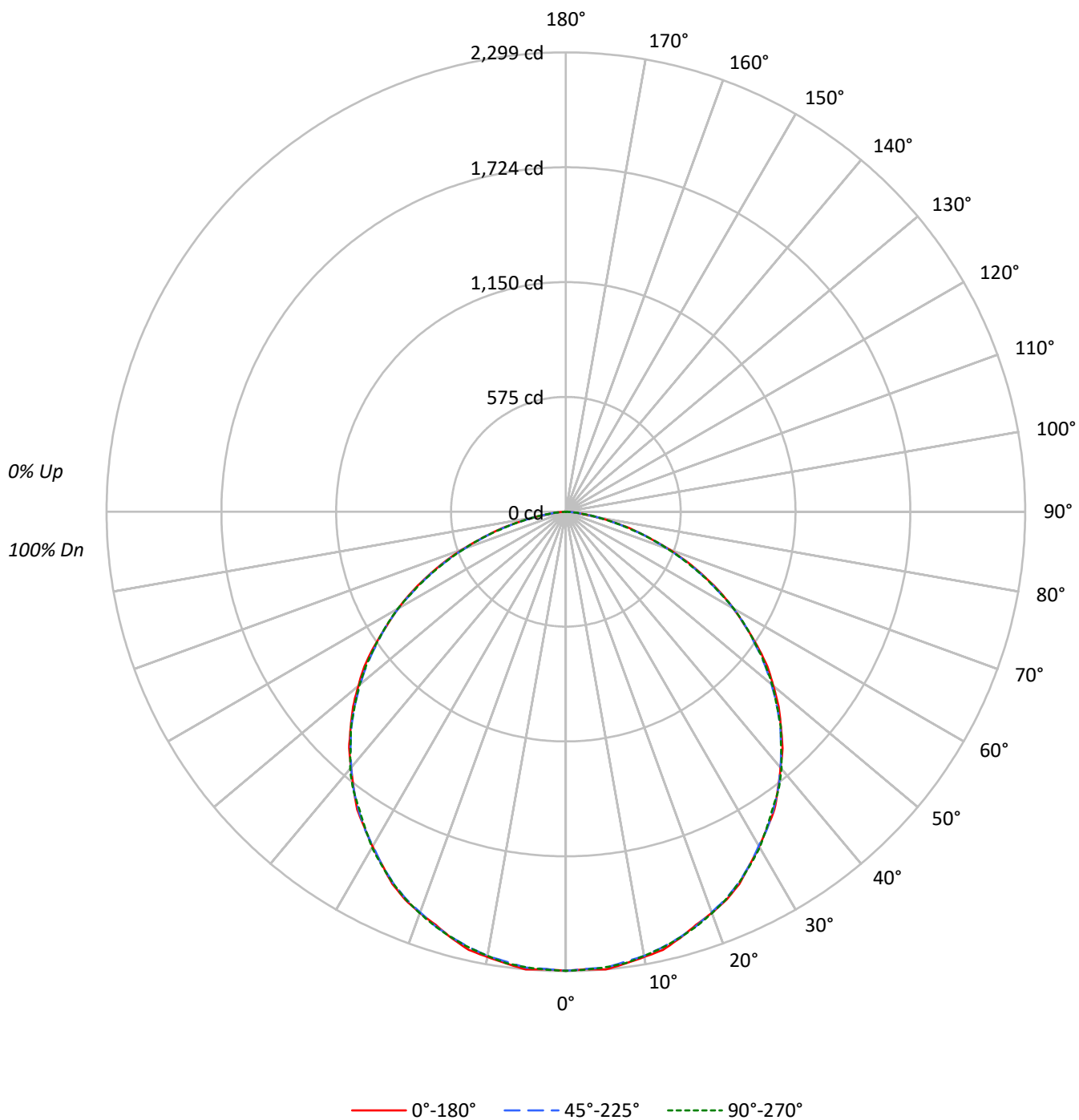
Lumens per Lamp: N/A
Luminaire Lumens: 6299.0 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1.81' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 60.5
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

TEST NUMBER: P997386

CATALOG NUMBER: FSP-24-L3C3-CA08-4000K-HI

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	102	99	95	98	95	92		94	92	90		91
2	100	92	85	79	97	90	84	78	86	81	77		83	79	75		80
3	91	81	73	66	88	79	72	66	76	70	64		73	68	63		71
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63
5	77	64	55	48	74	63	54	48	61	53	48		59	52	47		57
6	71	57	49	42	69	57	48	42	55	47	42		53	46	41		51
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47
8	61	48	39	33	59	47	39	33	46	38	33		44	38	33		43
9	57	44	35	30	56	43	35	30	42	35	30		41	34	30		40
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3578	3578	3578
5°	3595	3581	3578
10°	3578	3569	3569
15°	3562	3556	3559
20°	3541	3535	3544
25°	3532	3519	3523
30°	3480	3473	3490
35°	3461	3447	3436
40°	3400	3400	3415
45°	3353	3341	3349
50°	3286	3254	3268
55°	3175	3140	3155
60°	3019	3019	3025
65°	2816	2788	2782
70°	2510	2460	2468
75°	2104	2037	2015
80°	1443	1443	1460
85°	760	760	826

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3353 cd/sqm

TEST NUMBER: P997386

CATALOG NUMBER: FSP-24-L3C3-CA08-4000K-HI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.3	3.5
10°-20°	622.4	9.9
20°-30°	942.6	15.0
30°-40°	1133.6	18.0
40°-50°	1170.2	18.6
50°-60°	1039.5	16.5
60°-70°	748.2	11.9
70°-80°	362.1	5.7
80°-90°	63.0	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°	1782.3	28.3
0°-40°	2915.9	46.3
0°-60°	5125.6	81.4
0°-90°	6299.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6299.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2297	2297	2297	2297	2297	
5°	2299	2294	2290	2282	2288	218
15°	2208	2207	2205	2199	2207	623
25°	2055	2046	2048	2048	2050	944
35°	1820	1814	1813	1814	1807	1134
45°	1522	1520	1517	1517	1520	1175
55°	1169	1167	1156	1162	1162	1043
65°	764	758	756	749	755	755
75°	350	342	338	337	335	367
85°	42	42	42	42	46	63
90°	0	0	0	0	0	

TEST NUMBER: P997386

CATALOG NUMBER: FSP-24-L3C3-CA08-4000K-HI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2297.3	2297.3	2297.3	2297.3	2297.3
2.5°	2291.8	2291.8	2289.9	2291.8	2293.6
5°	2299.2	2293.6	2289.9	2282.5	2288.1
7.5°	2280.7	2275.1	2271.4	2265.9	2278.8
10°	2262.2	2262.2	2256.6	2247.4	2256.6
12.5°	2245.5	2234.4	2232.6	2230.7	2234.4
15°	2208.5	2206.7	2204.8	2199.3	2206.7
17.5°	2167.8	2173.4	2173.4	2173.4	2175.2
20°	2136.4	2132.7	2132.7	2132.7	2138.2
22.5°	2101.2	2093.8	2095.7	2088.3	2097.5
25°	2055.0	2045.8	2047.6	2047.6	2049.5
27.5°	1992.1	1992.1	1992.1	1994.0	1995.8
30°	1934.8	1938.5	1931.1	1929.2	1940.3
32.5°	1875.6	1875.6	1877.4	1870.0	1871.9
35°	1820.1	1814.5	1812.7	1814.5	1807.1
37.5°	1744.3	1748.0	1746.1	1744.3	1749.8
40°	1672.1	1677.7	1672.1	1670.3	1679.5
42.5°	1605.5	1600.0	1594.4	1590.7	1594.4
45°	1522.3	1520.4	1516.7	1516.7	1520.4
47.5°	1444.6	1440.9	1431.7	1429.8	1431.7
50°	1355.8	1352.1	1342.9	1350.3	1348.4
52.5°	1270.7	1263.3	1254.1	1257.8	1257.8
55°	1169.0	1167.2	1156.1	1161.6	1161.6
57.5°	1063.6	1071.0	1067.3	1065.4	1067.3
60°	969.2	974.8	969.2	963.7	971.1
62.5°	871.2	867.5	860.1	860.1	860.1
65°	763.9	758.4	756.5	749.1	754.7
67.5°	658.5	652.9	649.2	647.4	647.4
70°	551.2	547.5	540.1	538.3	542.0
72.5°	440.2	442.1	438.4	434.7	440.2
75°	349.6	342.2	338.5	336.6	334.8
77.5°	247.9	244.2	242.3	242.3	244.2
80°	160.9	160.9	160.9	160.9	162.8
82.5°	92.5	94.3	92.5	96.2	98.0
85°	42.5	42.5	42.5	42.5	46.2
87.5°	14.8	12.9	12.9	14.8	14.8
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	16.22	17.84	16.59	18.15	18.47	16.19	17.81	16.56	18.12	18.44
	3H	17.80	19.26	18.18	19.59	19.95	17.75	19.20	18.12	19.53	19.89
	4H	18.29	19.66	18.69	20.01	20.39	18.22	19.59	18.62	19.94	20.32
	6H	18.55	19.81	18.96	20.18	20.57	18.48	19.74	18.89	20.11	20.50
	8H	18.59	19.80	19.01	20.18	20.58	18.52	19.73	18.95	20.12	20.52
	12H	18.59	19.75	19.02	20.13	20.56	18.54	19.69	18.97	20.08	20.50
4H	2H	16.80	18.17	17.20	18.51	18.89	16.77	18.14	17.17	18.49	18.87
	3H	18.56	19.70	18.97	20.10	20.50	18.51	19.65	18.92	20.05	20.45
	4H	19.15	20.18	19.58	20.59	21.03	19.09	20.11	19.52	20.53	20.96
	6H	19.49	20.38	19.94	20.82	21.28	19.42	20.32	19.88	20.76	21.22
	8H	19.55	20.38	20.01	20.83	21.29	19.49	20.33	19.95	20.77	21.24
	12H	19.57	20.32	20.05	20.79	21.26	19.52	20.27	20.00	20.75	21.21
8H	4H	19.35	20.19	19.81	20.63	21.10	19.29	20.13	19.75	20.57	21.04
	6H	19.75	20.44	20.24	20.93	21.40	19.69	20.38	20.19	20.87	21.35
	8H	19.84	20.46	20.35	20.96	21.45	19.79	20.41	20.30	20.92	21.40
	12H	19.88	20.43	20.39	20.92	21.48	19.84	20.39	20.35	20.88	21.44
12H	4H	19.36	20.11	19.84	20.58	21.05	19.30	20.05	19.78	20.52	20.99
	6H	19.75	20.37	20.26	20.88	21.37	19.70	20.32	20.21	20.82	21.31
	8H	19.87	20.42	20.38	20.91	21.47	19.83	20.38	20.34	20.87	21.43