

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: P997419

Luminaire Tested: FSP-24-L3C3-CP250-3500K-HI

Issue Date: 6/20/2025

Test Information

Test Method: LM-79-2019
Report Number: P997419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-18)
Test Lab: INNOVATION CENTER
Issue Date: 6/20/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FSP-24-L3C3-CP250-3500K-HI
Description: Fail-Safe Sealed Selectable Panel Clear Outer Lens/Frosted Inner Lens
Light Source: -
Ballast/Driver: -

Summary

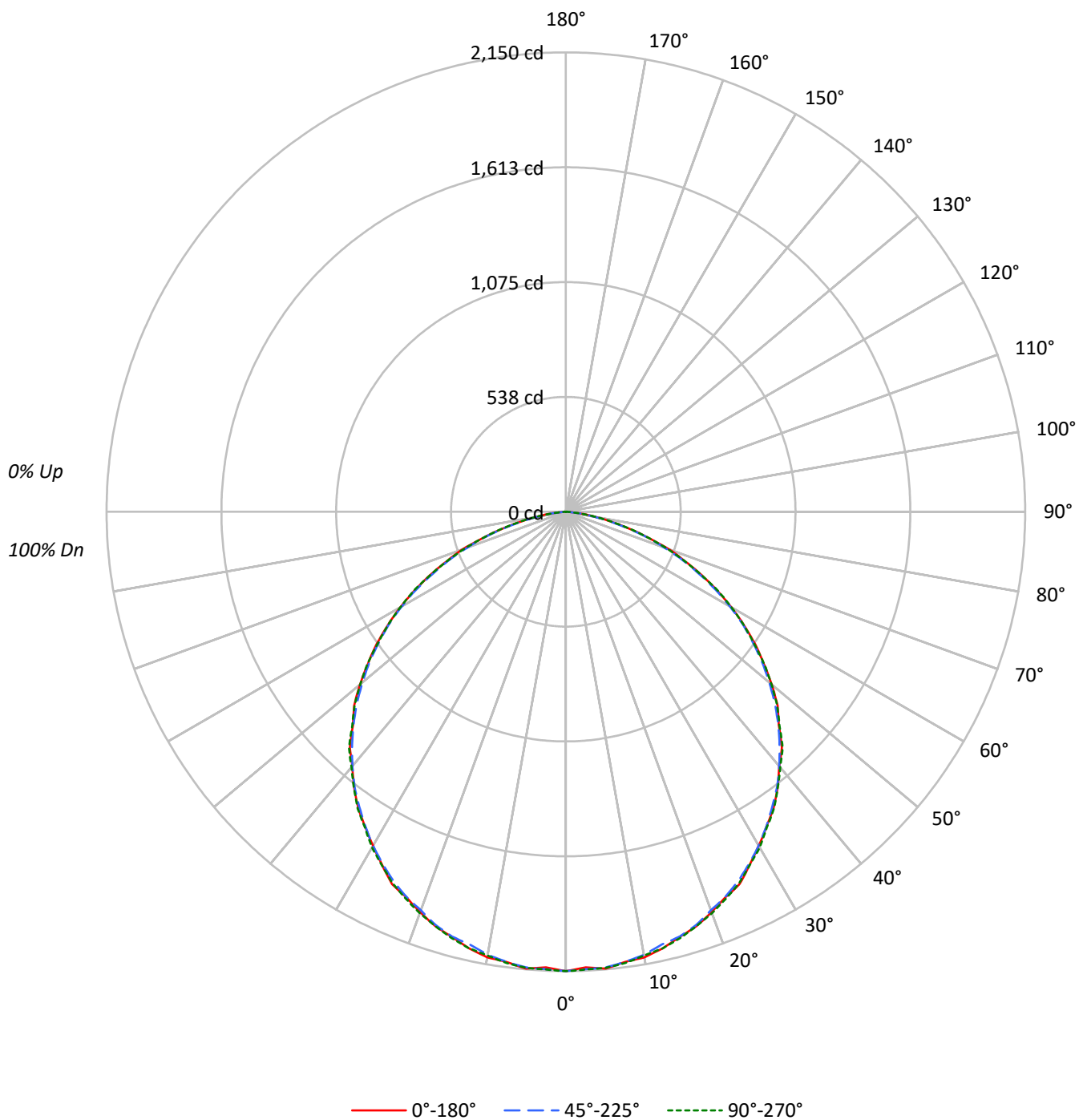
Lumens per Lamp: N/A
Luminaire Lumens: 5823.0 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1.81' x L: 3.81' x H: 0')
CIE Type: Direct

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: P997419

CATALOG NUMBER: FSP-24-L3C3-CP250-3500K-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	103	99	96	98	95	93		95	92	90		91
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	83	72	63	57	81	70	62	56	68	61	55		66	60	55		63
5	77	64	55	49	75	63	55	48	61	54	48		59	52	47		57
6	71	58	49	43	69	57	48	42	55	48	42		53	47	42		52
7	66	52	44	38	64	52	43	37	50	43	37		49	42	37		47
8	61	48	39	34	60	47	39	33	46	38	33		45	38	33		43
9	57	44	36	30	56	43	35	30	42	35	30		41	35	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°	3349	3349	3349
5°	3356	3348	3351
10°	3349	3330	3335
15°	3322	3319	3331
20°	3305	3290	3314
25°	3306	3279	3297
30°	3247	3247	3263
35°	3221	3204	3228
40°	3160	3160	3175
45°	3103	3096	3115
50°	3049	3010	3044
55°	2939	2905	2919
60°	2790	2762	2790
65°	2586	2533	2580
70°	2346	2231	2289
75°	1880	1804	1911
80°	1320	1240	1337
85°	642	577	642

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3115 cd/sqm

TEST NUMBER: P997419

CATALOG NUMBER: FSP-24-L3C3-CP250-3500K-HI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.4	3.5
10°-20°	581.6	10.0
20°-30°	880.4	15.1
30°-40°	1056.4	18.1
40°-50°	1087.6	18.7
50°-60°	957.8	16.4
60°-70°	681.1	11.7
70°-80°	323.1	5.5
80°-90°	51.5	0.9
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°	1665.4	28.6
0°-40°	2721.9	46.7
0°-60°	4767.3	81.9
0°-90°	5823.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5823.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2150	2150	2150	2150	2150	
5°	2146	2143	2141	2146	2143	203
15°	2060	2062	2058	2060	2066	582
25°	1924	1917	1908	1911	1918	881
35°	1694	1692	1685	1690	1698	1057
45°	1409	1411	1405	1411	1414	1092
55°	1082	1068	1070	1075	1075	965
65°	702	669	687	691	700	694
75°	312	285	300	305	318	334
85°	36	30	32	34	36	55
90°	0	0	0	0	0	

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CATALOG NUMBER: FSP-24-L3C3-CP250-3500K-HI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2149.9	2149.9	2149.9	2149.9	2149.9
2.5°	2133.8	2151.7	2142.8	2144.5	2144.5
5°	2146.3	2142.8	2141.0	2146.3	2142.8
7.5°	2124.8	2133.8	2124.8	2130.2	2130.2
10°	2117.6	2112.2	2105.1	2103.3	2108.7
12.5°	2092.5	2088.9	2074.6	2090.7	2092.5
15°	2060.2	2062.0	2058.4	2060.2	2065.6
17.5°	2033.3	2033.3	2027.9	2031.5	2033.3
20°	1993.8	2002.8	1984.8	1993.8	1999.2
22.5°	1952.5	1956.1	1950.7	1952.5	1959.7
25°	1923.8	1916.6	1907.7	1911.3	1918.4
27.5°	1862.8	1866.4	1857.4	1859.2	1864.6
30°	1805.4	1803.6	1805.4	1805.4	1814.3
32.5°	1747.9	1747.9	1746.1	1746.1	1751.5
35°	1694.1	1692.3	1685.1	1690.5	1697.7
37.5°	1627.7	1625.9	1624.1	1625.9	1629.5
40°	1554.1	1559.5	1554.1	1555.9	1561.3
42.5°	1496.7	1489.5	1480.5	1491.3	1502.1
45°	1408.8	1410.6	1405.2	1410.6	1414.1
47.5°	1344.2	1326.2	1326.2	1333.4	1340.6
50°	1258.0	1245.5	1241.9	1250.8	1256.2
52.5°	1168.3	1157.5	1159.3	1162.9	1170.1
55°	1082.1	1067.8	1069.6	1075.0	1075.0
57.5°	988.8	970.9	983.4	985.2	987.0
60°	895.5	874.0	886.5	888.3	895.5
62.5°	798.6	771.7	791.4	793.2	804.0
65°	701.7	669.4	687.3	690.9	699.9
67.5°	601.2	574.3	594.0	588.6	599.4
70°	515.1	475.6	489.9	493.5	502.5
72.5°	403.8	376.9	398.4	396.6	403.8
75°	312.3	285.3	299.7	305.1	317.6
77.5°	220.7	202.8	215.4	220.7	224.3
80°	147.2	132.8	138.2	143.6	149.0
82.5°	84.3	73.6	79.0	79.0	80.8
85°	35.9	30.5	32.3	34.1	35.9
87.5°	9.0	7.2	7.2	7.2	7.2
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	15.85	17.46	16.21	17.77	18.09	15.93	17.54	16.30	17.85	18.17
	3H	17.39	18.84	17.77	19.17	19.53	17.47	18.92	17.84	19.24	19.60
	4H	17.86	19.22	18.26	19.57	19.94	17.95	19.31	18.35	19.66	20.03
	6H	18.10	19.36	18.51	19.72	20.11	18.20	19.46	18.61	19.82	20.21
	8H	18.13	19.34	18.56	19.73	20.12	18.23	19.44	18.66	19.82	20.22
	12H	18.14	19.29	18.57	19.67	20.10	18.24	19.39	18.67	19.77	20.20
4H	2H	16.42	17.79	16.82	18.13	18.51	16.49	17.85	16.89	18.20	18.58
	3H	18.14	19.27	18.54	19.67	20.07	18.21	19.35	18.62	19.75	20.15
	4H	18.67	19.69	19.10	20.11	20.54	18.78	19.81	19.22	20.22	20.66
	6H	18.98	19.87	19.44	20.31	20.77	19.12	20.00	19.57	20.45	20.90
	8H	19.04	19.87	19.50	20.31	20.78	19.17	20.00	19.63	20.44	20.91
	12H	19.05	19.80	19.54	20.27	20.74	19.18	19.93	19.67	20.40	20.87
8H	4H	18.87	19.70	19.33	20.14	20.61	18.97	19.80	19.43	20.24	20.71
	6H	19.23	19.91	19.72	20.40	20.88	19.36	20.04	19.85	20.53	21.01
	8H	19.30	19.92	19.81	20.42	20.91	19.43	20.05	19.95	20.56	21.04
	12H	19.34	19.88	19.85	20.37	20.93	19.47	20.01	19.98	20.50	21.07
12H	4H	18.87	19.61	19.35	20.09	20.56	18.97	19.71	19.45	20.19	20.66
	6H	19.23	19.84	19.74	20.35	20.84	19.35	19.97	19.86	20.48	20.96
	8H	19.34	19.88	19.84	20.37	20.93	19.46	20.00	19.97	20.50	21.06