

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: P997421

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

Issue Date: 6/20/2025

Test Information

Test Method: LM-79-2019
Report Number: P997421
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-MID
Description: Fail-Safe Sealed Selectable Panel Clear Outer Lens/Frosted Inner Lens
Light Source: -
Ballast/Driver: -

Summary

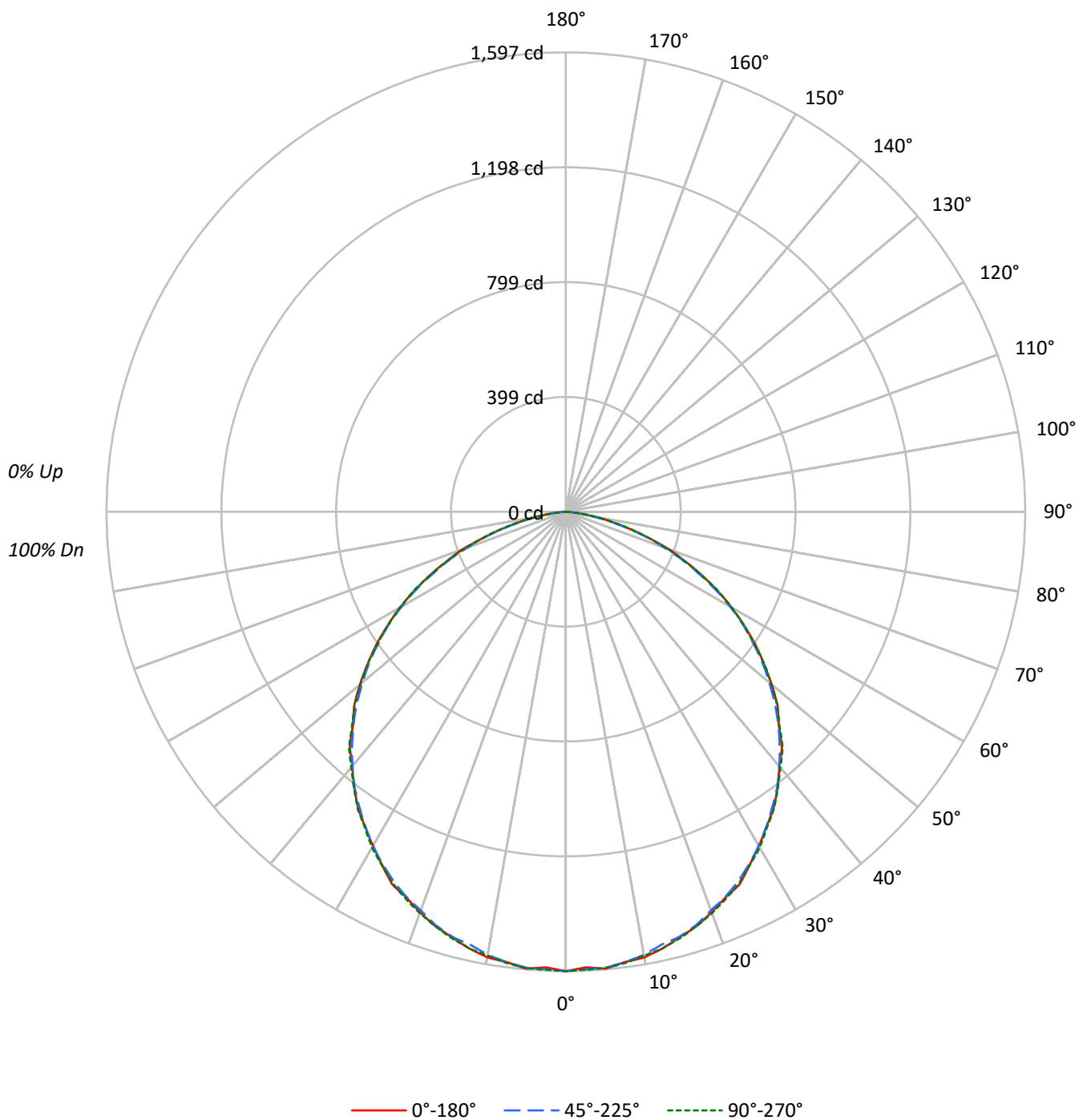
Lumens per Lamp: N/A
Luminaire Lumens: 4326.0 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1.81' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 41.5
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: P997421

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

Luminous Intensity Polar Plot



TEST NUMBER: P997421

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

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°	2488	2488	2488
5°	2493	2487	2489
10°	2488	2474	2478
15°	2468	2466	2475
20°	2455	2444	2462
25°	2456	2436	2450
30°	2412	2412	2424
35°	2393	2381	2398
40°	2348	2348	2359
45°	2306	2300	2314
50°	2265	2236	2262
55°	2183	2158	2169
60°	2073	2052	2073
65°	1921	1882	1917
70°	1743	1658	1700
75°	1396	1340	1420
80°	980	921	993
85°	477	429	477

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2314 cd/sqm

TEST NUMBER: P997421

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	3.5
10°-20°	432.1	10.0
20°-30°	654.0	15.1
30°-40°	784.8	18.1
40°-50°	808.0	18.7
50°-60°	711.6	16.4
60°-70°	506.0	11.7
70°-80°	240.1	5.5
80°-90°	38.3	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°	1237.3	28.6
0°-40°	2022.1	46.7
0°-60°	3541.7	81.9
0°-90°	4326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4326.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1597	1597	1597	1597	1597	
5°	1595	1592	1591	1595	1592	151
15°	1531	1532	1529	1531	1535	433
25°	1429	1424	1417	1420	1425	655
35°	1259	1257	1252	1256	1261	785
45°	1047	1048	1044	1048	1051	811
55°	804	793	795	799	799	717
65°	521	497	511	513	520	516
75°	232	212	223	227	236	248
85°	27	23	24	25	27	41
90°	0	0	0	0	0	

TEST NUMBER: P997421

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1597.2	1597.2	1597.2	1597.2	1597.2
2.5°	1585.2	1598.6	1591.9	1593.2	1593.2
5°	1594.6	1591.9	1590.6	1594.6	1591.9
7.5°	1578.6	1585.2	1578.6	1582.6	1582.6
10°	1573.2	1569.2	1563.9	1562.6	1566.6
12.5°	1554.6	1551.9	1541.2	1553.2	1554.6
15°	1530.6	1531.9	1529.2	1530.6	1534.6
17.5°	1510.6	1510.6	1506.6	1509.2	1510.6
20°	1481.2	1487.9	1474.6	1481.2	1485.2
22.5°	1450.6	1453.2	1449.2	1450.6	1455.9
25°	1429.2	1423.9	1417.2	1419.9	1425.2
27.5°	1383.9	1386.6	1379.9	1381.2	1385.2
30°	1341.2	1339.9	1341.2	1341.2	1347.9
32.5°	1298.6	1298.6	1297.2	1297.2	1301.2
35°	1258.6	1257.2	1251.9	1255.9	1261.2
37.5°	1209.2	1207.9	1206.6	1207.9	1210.6
40°	1154.6	1158.6	1154.6	1155.9	1159.9
42.5°	1111.9	1106.6	1099.9	1107.9	1115.9
45°	1046.6	1047.9	1043.9	1047.9	1050.6
47.5°	998.6	985.3	985.3	990.6	995.9
50°	934.6	925.3	922.6	929.3	933.3
52.5°	867.9	859.9	861.3	863.9	869.3
55°	803.9	793.3	794.6	798.6	798.6
57.5°	734.6	721.3	730.6	731.9	733.3
60°	665.3	649.3	658.6	660.0	665.3
62.5°	593.3	573.3	588.0	589.3	597.3
65°	521.3	497.3	510.6	513.3	520.0
67.5°	446.6	426.6	441.3	437.3	445.3
70°	382.6	353.3	364.0	366.6	373.3
72.5°	300.0	280.0	296.0	294.6	300.0
75°	232.0	212.0	222.7	226.7	236.0
77.5°	164.0	150.7	160.0	164.0	166.7
80°	109.3	98.7	102.7	106.7	110.7
82.5°	62.7	54.7	58.7	58.7	60.0
85°	26.7	22.7	24.0	25.3	26.7
87.5°	6.7	5.3	5.3	5.3	5.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P997421

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

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	14.82	16.43	15.18	16.74	17.05	14.90	16.51	15.26	16.82	17.14
	3H	16.36	17.81	16.74	18.14	18.50	16.44	17.88	16.81	18.21	18.57
	4H	16.83	18.19	17.22	18.54	18.91	16.92	18.28	17.31	18.63	19.00
	6H	17.06	18.32	17.47	18.69	19.08	17.17	18.43	17.58	18.79	19.18
	8H	17.10	18.30	17.53	18.69	19.09	17.20	18.40	17.63	18.79	19.19
	12H	17.11	18.26	17.53	18.64	19.07	17.20	18.35	17.63	18.74	19.16
4H	2H	15.39	16.75	15.79	17.10	17.48	15.46	16.82	15.85	17.17	17.54
	3H	17.10	18.24	17.51	18.63	19.03	17.18	18.31	17.59	18.71	19.11
	4H	17.64	18.66	18.07	19.08	19.51	17.75	18.77	18.18	19.19	19.62
	6H	17.95	18.84	18.41	19.28	19.74	18.08	18.97	18.54	19.41	19.87
	8H	18.00	18.84	18.47	19.28	19.74	18.14	18.97	18.60	19.41	19.88
	12H	18.02	18.77	18.50	19.24	19.71	18.15	18.90	18.63	19.37	19.84
8H	4H	17.84	18.67	18.30	19.11	19.57	17.94	18.77	18.40	19.21	19.68
	6H	18.19	18.88	18.69	19.37	19.85	18.32	19.01	18.82	19.50	19.98
	8H	18.27	18.88	18.78	19.39	19.88	18.40	19.02	18.91	19.52	20.01
	12H	18.31	18.85	18.81	19.34	19.90	18.44	18.98	18.95	19.47	20.03
12H	4H	17.84	18.58	18.32	19.06	19.53	17.94	18.68	18.42	19.16	19.63
	6H	18.19	18.81	18.71	19.32	19.80	18.32	18.94	18.83	19.44	19.93
	8H	18.30	18.84	18.81	19.34	19.90	18.43	18.97	18.94	19.46	20.03