

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: P997412

Luminaire Tested: FSP-24-L3C3-CP187-3500K-MID

Issue Date: 6/20/2025

Test Information

Test Method: LM-79-2019
Report Number: P997412
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-17)
Test Lab: INNOVATION CENTER
Issue Date: 6/20/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FSP-24-L3C3-CP187-3500K-MID
Description: Fail-Safe Sealed Selectable Panel Clear Outer Lens/Frosted Inner Lens
Light Source: -
Ballast/Driver: -

Summary

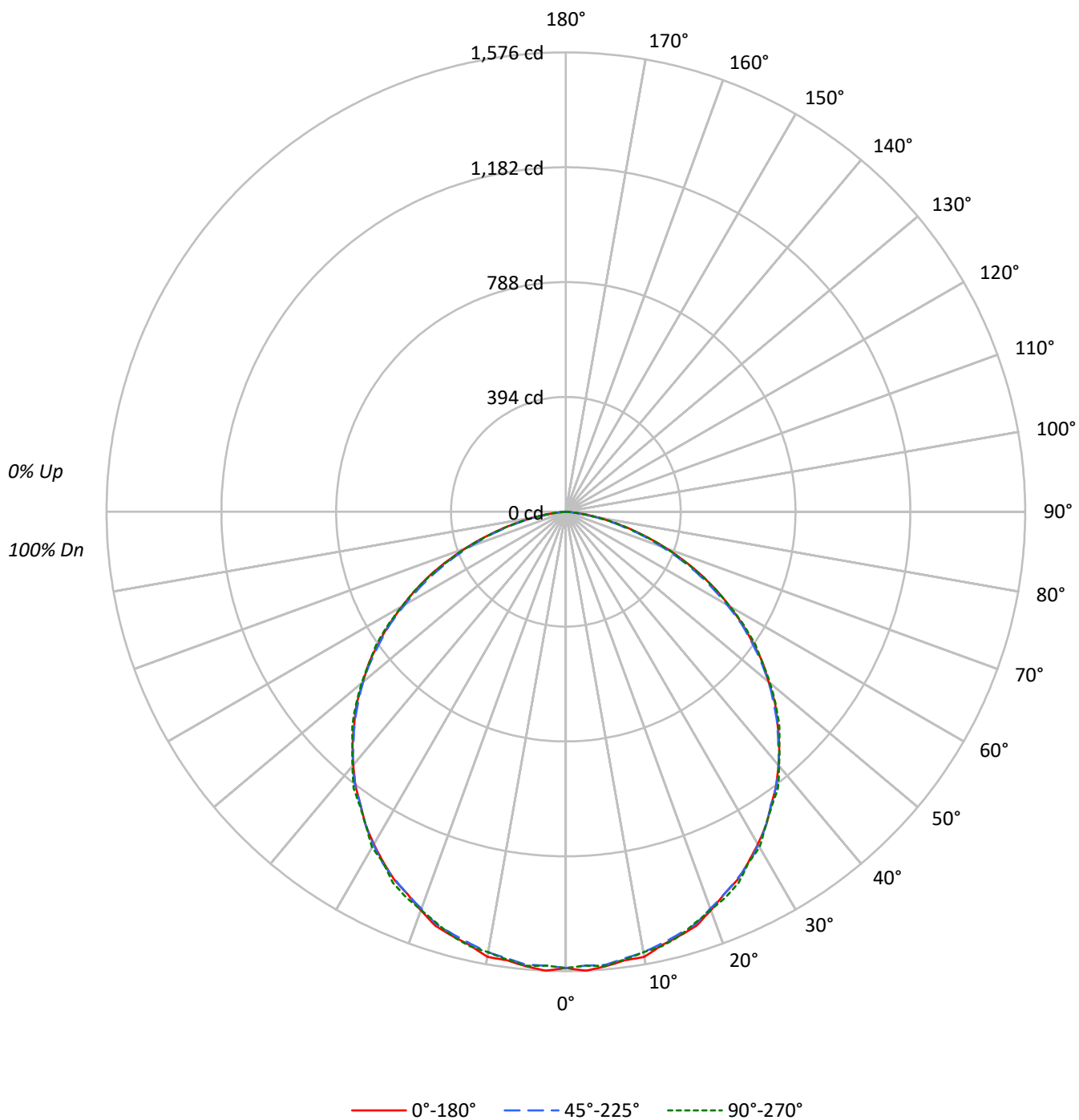
Lumens per Lamp: N/A
Luminaire Lumens: 4246.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1.81' x L: 3.81' x H: 0')
CIE Type: Direct

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: P997412

CATALOG NUMBER: FSP-24-L3C3-CP187-3500K-MID

Luminous Intensity Polar Plot



TEST NUMBER: P997412

CATALOG NUMBER: FSP-24-L3C3-CP187-3500K-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	56	81	70	62	56	68	61	55		66	59	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	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°	2438	2438	2438
5°	2447	2439	2445
10°	2452	2427	2427
15°	2429	2419	2429
20°	2411	2402	2409
25°	2394	2390	2413
30°	2369	2374	2391
35°	2335	2335	2342
40°	2307	2312	2315
45°	2261	2258	2282
50°	2200	2200	2216
55°	2125	2111	2154
60°	2018	1989	2027
65°	1887	1828	1872
70°	1670	1597	1670
75°	1372	1284	1356
80°	945	897	969
85°	452	429	452

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2282 cd/sqm

TEST NUMBER: P997412

CATALOG NUMBER: FSP-24-L3C3-CP187-3500K-MID

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.0	3.5
10°-20°	424.2	10.0
20°-30°	641.5	15.1
30°-40°	770.6	18.1
40°-50°	791.6	18.6
50°-60°	698.4	16.4
60°-70°	497.1	11.7
70°-80°	236.5	5.6
80°-90°	38.1	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°	1213.7	28.6
0°-40°	1984.3	46.7
0°-60°	3474.3	81.8
0°-90°	4246.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4246.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1565	1565	1565	1565	1565	
5°	1565	1564	1560	1556	1564	149
15°	1506	1502	1500	1505	1506	425
25°	1393	1390	1390	1393	1404	641
35°	1228	1229	1228	1240	1232	770
45°	1026	1025	1025	1032	1036	792
55°	782	784	777	782	793	700
65°	512	508	496	500	508	504
75°	228	223	213	217	225	243
85°	25	24	24	25	25	39
90°	0	0	0	0	0	

TEST NUMBER: P997412

CATALOG NUMBER: FSP-24-L3C3-CP187-3500K-MID

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1565.1	1565.1	1565.1	1565.1	1565.1
2.5°	1575.8	1563.8	1558.4	1555.8	1558.4
5°	1565.1	1563.8	1559.8	1555.8	1563.8
7.5°	1551.8	1549.1	1545.1	1542.4	1549.1
10°	1550.4	1539.8	1534.4	1535.8	1534.4
12.5°	1522.4	1523.8	1517.1	1519.8	1526.4
15°	1506.4	1502.4	1499.8	1505.1	1506.4
17.5°	1489.1	1487.8	1482.4	1474.4	1478.4
20°	1454.4	1453.1	1449.1	1455.8	1453.1
22.5°	1419.8	1427.8	1419.8	1429.1	1431.8
25°	1393.1	1390.5	1390.5	1393.1	1403.8
27.5°	1355.8	1351.8	1359.8	1353.1	1357.1
30°	1317.1	1313.1	1319.8	1319.8	1329.1
32.5°	1277.1	1273.1	1277.1	1274.5	1275.8
35°	1227.8	1229.1	1227.8	1239.8	1231.8
37.5°	1185.2	1182.5	1186.5	1186.5	1195.8
40°	1134.5	1134.5	1137.2	1134.5	1138.5
42.5°	1083.8	1075.8	1078.5	1082.5	1083.8
45°	1026.5	1025.2	1025.2	1031.8	1035.8
47.5°	973.2	967.9	966.5	969.2	975.9
50°	907.9	907.9	907.9	911.9	914.5
52.5°	851.9	847.9	843.9	846.5	849.2
55°	782.5	783.9	777.2	782.5	793.2
57.5°	718.6	717.2	713.2	713.2	723.9
60°	647.9	647.9	638.6	645.2	650.6
62.5°	581.2	579.9	566.6	570.6	582.6
65°	511.9	507.9	495.9	499.9	507.9
67.5°	438.6	434.6	423.9	426.6	433.3
70°	366.6	363.9	350.6	354.6	366.6
72.5°	296.0	290.6	282.6	284.0	292.0
75°	228.0	222.6	213.3	217.3	225.3
77.5°	164.0	161.3	154.6	156.0	164.0
80°	105.3	104.0	100.0	102.7	108.0
82.5°	61.3	58.7	54.7	57.3	60.0
85°	25.3	24.0	24.0	25.3	25.3
87.5°	5.3	5.3	6.7	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P997412

CATALOG NUMBER: FSP-24-L3C3-CP187-3500K-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	15.19	16.75	17.06	14.80	16.41	15.16	16.72	17.04
	3H	16.38	17.83	16.76	18.16	18.52	16.33	17.78	16.71	18.11	18.47
	4H	16.86	18.22	17.26	18.57	18.94	16.80	18.16	17.19	18.51	18.88
	6H	17.10	18.36	17.51	18.73	19.12	17.05	18.31	17.46	18.67	19.06
	8H	17.14	18.34	17.56	18.73	19.13	17.08	18.29	17.51	18.67	19.07
	12H	17.14	18.29	17.57	18.67	19.10	17.09	18.24	17.52	18.62	19.05
4H	2H	15.37	16.73	15.77	17.08	17.45	15.35	16.71	15.75	17.06	17.44
	3H	17.11	18.25	17.52	18.65	19.05	17.06	18.20	17.47	18.59	18.99
	4H	17.68	18.70	18.11	19.12	19.56	17.62	18.64	18.05	19.05	19.49
	6H	18.01	18.90	18.46	19.34	19.80	17.95	18.83	18.40	19.28	19.73
	8H	18.07	18.90	18.53	19.34	19.80	18.00	18.83	18.46	19.27	19.74
	12H	18.08	18.83	18.56	19.30	19.77	18.02	18.76	18.50	19.24	19.71
8H	4H	17.86	18.69	18.32	19.14	19.60	17.80	18.63	18.27	19.08	19.54
	6H	18.25	18.93	18.74	19.42	19.90	18.19	18.87	18.68	19.36	19.84
	8H	18.33	18.94	18.84	19.45	19.94	18.27	18.88	18.78	19.39	19.88
	12H	18.36	18.91	18.87	19.40	19.96	18.30	18.85	18.81	19.34	19.90
12H	4H	17.86	18.61	18.35	19.08	19.55	17.81	18.55	18.29	19.03	19.50
	6H	18.24	18.86	18.75	19.37	19.85	18.19	18.80	18.70	19.31	19.80
	8H	18.36	18.90	18.86	19.39	19.95	18.30	18.84	18.81	19.33	19.89