

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: P997385

Luminaire Tested: FSP-24-L3C3-CA08-3500K-MID

Issue Date: 6/20/2025

Test Information

Test Method: LM-79-2019
Report Number: P997385
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-CA08-3500K-MID
Description: Fail-Safe Sealed Selectable Panel Clear Outer Lens/Frosted Inner Lens
Light Source: -
Ballast/Driver: -

Summary

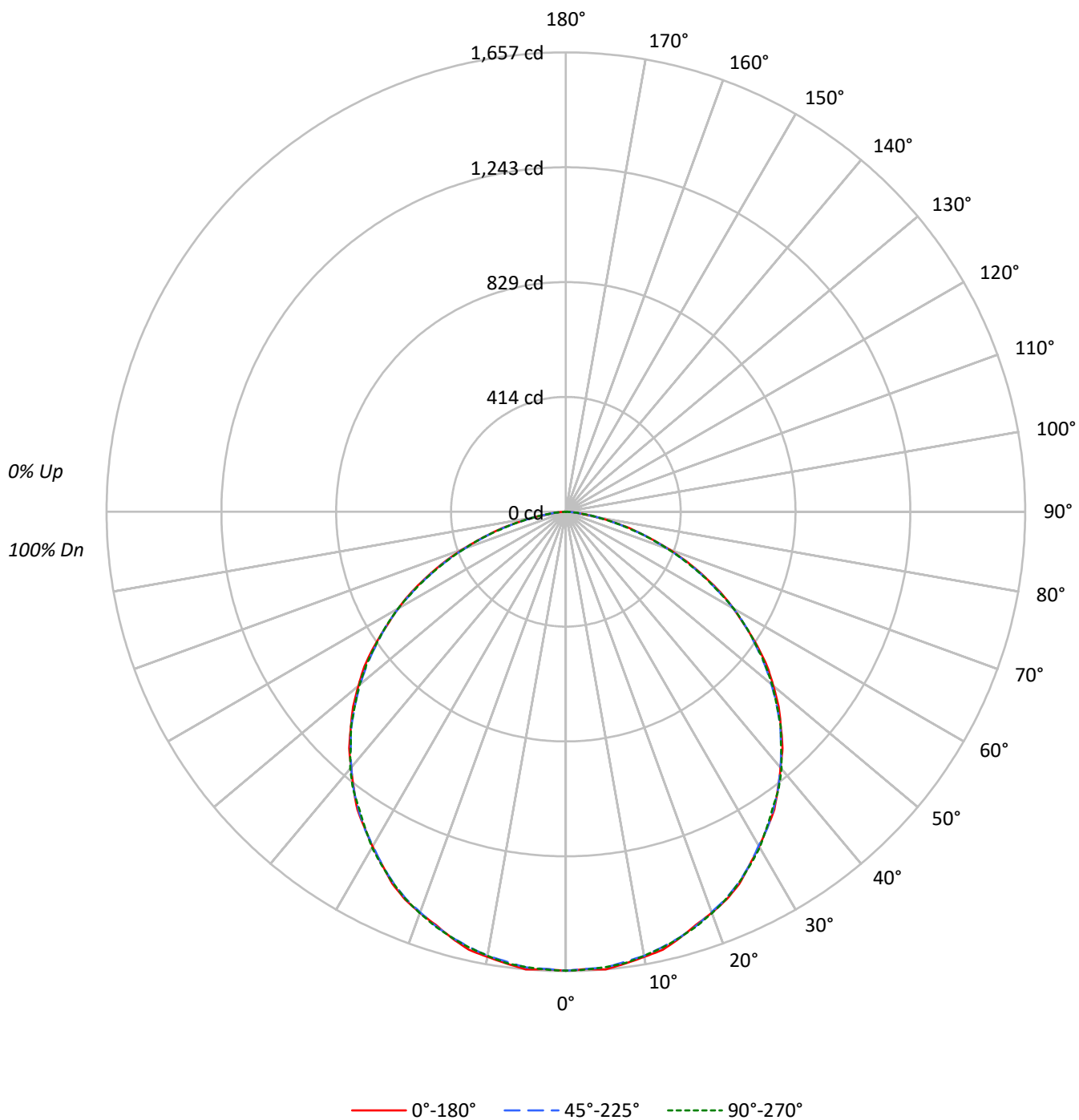
Lumens per Lamp: N/A
Luminaire Lumens: 4539.0 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1.81' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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	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°	2579	2579	2579
5°	2591	2580	2578
10°	2578	2572	2572
15°	2566	2562	2564
20°	2552	2547	2554
25°	2545	2536	2538
30°	2508	2503	2515
35°	2494	2484	2476
40°	2450	2450	2461
45°	2416	2408	2414
50°	2368	2345	2355
55°	2288	2262	2273
60°	2176	2176	2180
65°	2029	2009	2004
70°	1809	1773	1778
75°	1516	1468	1452
80°	1041	1041	1052
85°	549	549	595

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2416 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.6	3.5
10°-20°	448.5	9.9
20°-30°	679.3	15.0
30°-40°	816.9	18.0
40°-50°	843.3	18.6
50°-60°	749.0	16.5
60°-70°	539.2	11.9
70°-80°	260.9	5.7
80°-90°	45.5	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°	1284.3	28.3
0°-40°	2101.2	46.3
0°-60°	3693.5	81.4
0°-90°	4539.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4539.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1655	1655	1655	1655	1655	
5°	1657	1653	1650	1645	1649	157
15°	1591	1590	1589	1585	1590	449
25°	1481	1474	1476	1476	1477	680
35°	1312	1308	1306	1308	1302	817
45°	1097	1096	1093	1093	1096	847
55°	842	841	833	837	837	752
65°	550	546	545	540	544	544
75°	252	247	244	243	241	265
85°	31	31	31	31	33	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1655.4	1655.4	1655.4	1655.4	1655.4
2.5°	1651.4	1651.4	1650.1	1651.4	1652.8
5°	1656.8	1652.8	1650.1	1644.8	1648.8
7.5°	1643.4	1639.4	1636.8	1632.8	1642.1
10°	1630.1	1630.1	1626.1	1619.4	1626.1
12.5°	1618.1	1610.1	1608.8	1607.4	1610.1
15°	1591.4	1590.1	1588.8	1584.8	1590.1
17.5°	1562.1	1566.1	1566.1	1566.1	1567.5
20°	1539.5	1536.8	1536.8	1536.8	1540.8
22.5°	1514.1	1508.8	1510.1	1504.8	1511.5
25°	1480.8	1474.2	1475.5	1475.5	1476.8
27.5°	1435.5	1435.5	1435.5	1436.8	1438.2
30°	1394.2	1396.8	1391.5	1390.2	1398.2
32.5°	1351.5	1351.5	1352.9	1347.5	1348.9
35°	1311.5	1307.5	1306.2	1307.5	1302.2
37.5°	1256.9	1259.6	1258.2	1256.9	1260.9
40°	1204.9	1208.9	1204.9	1203.6	1210.2
42.5°	1156.9	1152.9	1148.9	1146.3	1148.9
45°	1096.9	1095.6	1093.0	1093.0	1095.6
47.5°	1041.0	1038.3	1031.6	1030.3	1031.6
50°	977.0	974.3	967.7	973.0	971.7
52.5°	915.7	910.3	903.7	906.3	906.3
55°	842.4	841.0	833.0	837.0	837.0
57.5°	766.4	771.7	769.1	767.7	769.1
60°	698.4	702.4	698.4	694.4	699.8
62.5°	627.8	625.1	619.8	619.8	619.8
65°	550.5	546.5	545.1	539.8	543.8
67.5°	474.5	470.5	467.8	466.5	466.5
70°	397.2	394.5	389.2	387.9	390.5
72.5°	317.2	318.6	315.9	313.2	317.2
75°	251.9	246.6	243.9	242.6	241.2
77.5°	178.6	175.9	174.6	174.6	175.9
80°	116.0	116.0	116.0	116.0	117.3
82.5°	66.6	68.0	66.6	69.3	70.6
85°	30.7	30.7	30.7	30.7	33.3
87.5°	10.7	9.3	9.3	10.7	10.7
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	15.08	16.70	15.45	17.01	17.33	15.06	16.67	15.42	16.99	17.30
	3H	16.66	18.12	17.04	18.45	18.81	16.61	18.06	16.98	18.39	18.75
	4H	17.16	18.52	17.55	18.87	19.25	17.08	18.45	17.48	18.80	19.18
	6H	17.41	18.68	17.82	19.04	19.43	17.34	18.61	17.75	18.97	19.36
	8H	17.45	18.66	17.87	19.05	19.45	17.39	18.59	17.81	18.98	19.38
	12H	17.45	18.61	17.88	18.99	19.42	17.40	18.55	17.83	18.94	19.37
4H	2H	15.66	17.03	16.06	17.37	17.75	15.64	17.00	16.03	17.35	17.73
	3H	17.42	18.57	17.83	18.96	19.36	17.37	18.51	17.78	18.91	19.31
	4H	18.01	19.04	18.44	19.46	19.89	17.95	18.98	18.38	19.39	19.83
	6H	18.35	19.24	18.80	19.69	20.14	18.28	19.18	18.74	19.62	20.08
	8H	18.41	19.24	18.87	19.69	20.15	18.35	19.19	18.81	19.63	20.10
	12H	18.43	19.18	18.91	19.66	20.13	18.38	19.13	18.86	19.61	20.08
8H	4H	18.21	19.05	18.67	19.49	19.96	18.15	18.99	18.61	19.43	19.90
	6H	18.61	19.30	19.10	19.79	20.27	18.55	19.25	19.05	19.73	20.21
	8H	18.70	19.32	19.21	19.83	20.31	18.65	19.27	19.16	19.78	20.26
	12H	18.74	19.29	19.25	19.78	20.34	18.71	19.25	19.21	19.74	20.30
12H	4H	18.22	18.97	18.70	19.44	19.91	18.16	18.91	18.64	19.38	19.85
	6H	18.61	19.23	19.12	19.74	20.23	18.56	19.18	19.07	19.69	20.17
	8H	18.74	19.28	19.24	19.77	20.34	18.69	19.24	19.20	19.73	20.29