

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: P997388

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

Issue Date: 6/20/2025

Test Information

Test Method: LM-79-2019
Report Number: P997388
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-MID
Description: Fail-Safe Sealed Selectable Panel Clear Outer Lens/Frosted Inner Lens
Light Source: -
Ballast/Driver: -

Summary

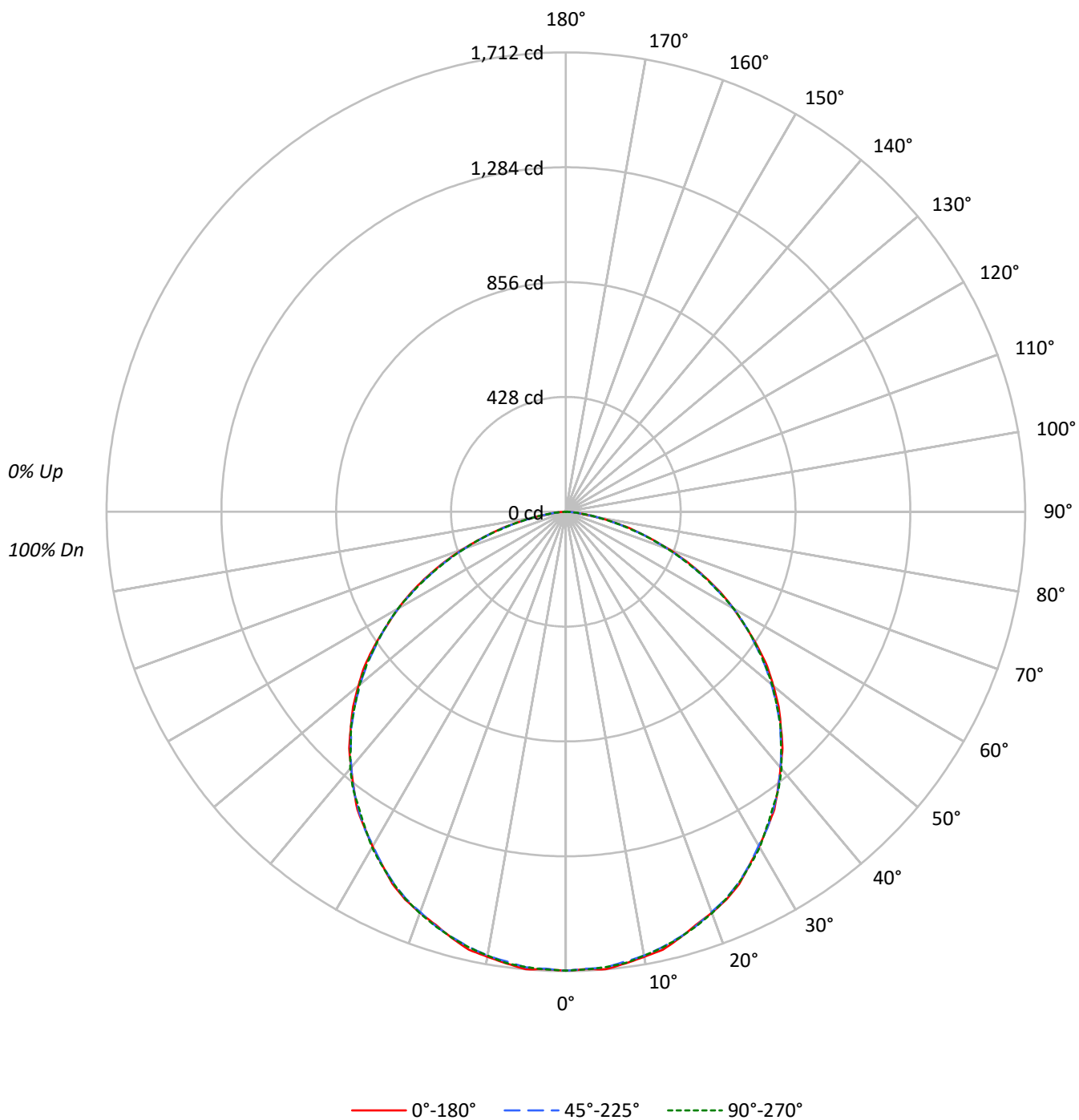
Lumens per Lamp: N/A
Luminaire Lumens: 4689.0 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1.81' x L: 3.81' x H: 0')
CIE Type: Direct

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°	2664	2664	2664
5°	2676	2665	2663
10°	2664	2657	2657
15°	2651	2647	2649
20°	2636	2632	2639
25°	2629	2620	2622
30°	2591	2586	2598
35°	2576	2566	2558
40°	2531	2531	2542
45°	2496	2487	2493
50°	2446	2422	2433
55°	2363	2337	2348
60°	2248	2248	2252
65°	2096	2076	2071
70°	1869	1831	1837
75°	1566	1517	1500
80°	1075	1075	1087
85°	567	567	615

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2496 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.8	3.5
10°-20°	463.3	9.9
20°-30°	701.7	15.0
30°-40°	843.9	18.0
40°-50°	871.1	18.6
50°-60°	773.8	16.5
60°-70°	557.0	11.9
70°-80°	269.5	5.7
80°-90°	46.9	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°	1326.8	28.3
0°-40°	2170.6	46.3
0°-60°	3815.5	81.4
0°-90°	4689.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4689.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1710	1710	1710	1710	1710	
5°	1712	1707	1705	1699	1703	162
15°	1644	1643	1641	1637	1643	464
25°	1530	1523	1524	1524	1526	703
35°	1355	1351	1349	1351	1345	844
45°	1133	1132	1129	1129	1132	875
55°	870	869	861	865	865	776
65°	569	564	563	558	562	562
75°	260	255	252	251	249	273
85°	32	32	32	32	34	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1710.1	1710.1	1710.1	1710.1	1710.1
2.5°	1706.0	1706.0	1704.6	1706.0	1707.4
5°	1711.5	1707.4	1704.6	1699.1	1703.2
7.5°	1697.7	1693.6	1690.8	1686.7	1696.4
10°	1684.0	1684.0	1679.8	1672.9	1679.8
12.5°	1671.6	1663.3	1661.9	1660.6	1663.3
15°	1644.0	1642.7	1641.3	1637.1	1642.7
17.5°	1613.7	1617.9	1617.9	1617.9	1619.3
20°	1590.3	1587.6	1587.6	1587.6	1591.7
22.5°	1564.2	1558.7	1560.0	1554.5	1561.4
25°	1529.8	1522.9	1524.2	1524.2	1525.6
27.5°	1482.9	1482.9	1482.9	1484.3	1485.7
30°	1440.3	1443.0	1437.5	1436.1	1444.4
32.5°	1396.2	1396.2	1397.6	1392.1	1393.4
35°	1354.9	1350.8	1349.4	1350.8	1345.2
37.5°	1298.4	1301.2	1299.8	1298.4	1302.6
40°	1244.7	1248.9	1244.7	1243.4	1250.2
42.5°	1195.2	1191.0	1186.9	1184.1	1186.9
45°	1133.2	1131.8	1129.1	1129.1	1131.8
47.5°	1075.4	1072.6	1065.7	1064.4	1065.7
50°	1009.3	1006.5	999.6	1005.1	1003.8
52.5°	945.9	940.4	933.5	936.3	936.3
55°	870.2	868.8	860.6	864.7	864.7
57.5°	791.7	797.2	794.5	793.1	794.5
60°	721.5	725.6	721.5	717.4	722.9
62.5°	648.5	645.8	640.3	640.3	640.3
65°	568.7	564.5	563.2	557.6	561.8
67.5°	490.2	486.1	483.3	481.9	481.9
70°	410.3	407.6	402.1	400.7	403.4
72.5°	327.7	329.1	326.3	323.6	327.7
75°	260.2	254.7	252.0	250.6	249.2
77.5°	184.5	181.8	180.4	180.4	181.8
80°	119.8	119.8	119.8	119.8	121.2
82.5°	68.8	70.2	68.8	71.6	73.0
85°	31.7	31.7	31.7	31.7	34.4
87.5°	11.0	9.6	9.6	11.0	11.0
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	15.20	16.81	15.56	17.13	17.44	15.17	16.79	15.53	17.10	17.41
	3H	16.78	18.23	17.15	18.56	18.92	16.72	18.18	17.10	18.50	18.86
	4H	17.27	18.64	17.67	18.99	19.36	17.20	18.57	17.60	18.91	19.29
	6H	17.52	18.79	17.93	19.15	19.54	17.45	18.72	17.86	19.08	19.48
	8H	17.56	18.77	17.99	19.16	19.56	17.50	18.71	17.92	19.10	19.50
	12H	17.57	18.73	18.00	19.11	19.54	17.51	18.67	17.94	19.05	19.48
4H	2H	15.77	17.14	16.17	17.49	17.86	15.75	17.12	16.15	17.47	17.84
	3H	17.54	18.68	17.95	19.08	19.48	17.49	18.63	17.90	19.03	19.43
	4H	18.13	19.16	18.56	19.57	20.01	18.06	19.09	18.49	19.50	19.94
	6H	18.46	19.36	18.92	19.80	20.25	18.40	19.29	18.85	19.73	20.19
	8H	18.52	19.36	18.98	19.80	20.27	18.47	19.30	18.93	19.75	20.21
	12H	18.54	19.29	19.02	19.77	20.24	18.49	19.24	18.97	19.72	20.19
8H	4H	18.33	19.16	18.79	19.61	20.07	18.27	19.10	18.73	19.55	20.01
	6H	18.72	19.41	19.22	19.90	20.38	18.67	19.36	19.16	19.85	20.32
	8H	18.81	19.43	19.32	19.94	20.42	18.76	19.38	19.28	19.89	20.38
	12H	18.86	19.40	19.37	19.90	20.46	18.82	19.36	19.33	19.86	20.42
12H	4H	18.33	19.08	18.81	19.56	20.03	18.27	19.02	18.75	19.50	19.97
	6H	18.73	19.35	19.24	19.85	20.34	18.67	19.29	19.18	19.80	20.28
	8H	18.85	19.40	19.36	19.89	20.45	18.80	19.35	19.31	19.84	20.40