

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: P997409

Luminaire Tested: FSP-24-L3C3-CP187-3000K-MID

Issue Date: 6/20/2025

Test Information

Test Method: LM-79-2019
Report Number: P997409
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-CP187-3000K-MID
Description: Fail-Safe Sealed Selectable Panel Clear Outer Lens/Frosted Inner Lens
Light Source: -
Ballast/Driver: -

Summary

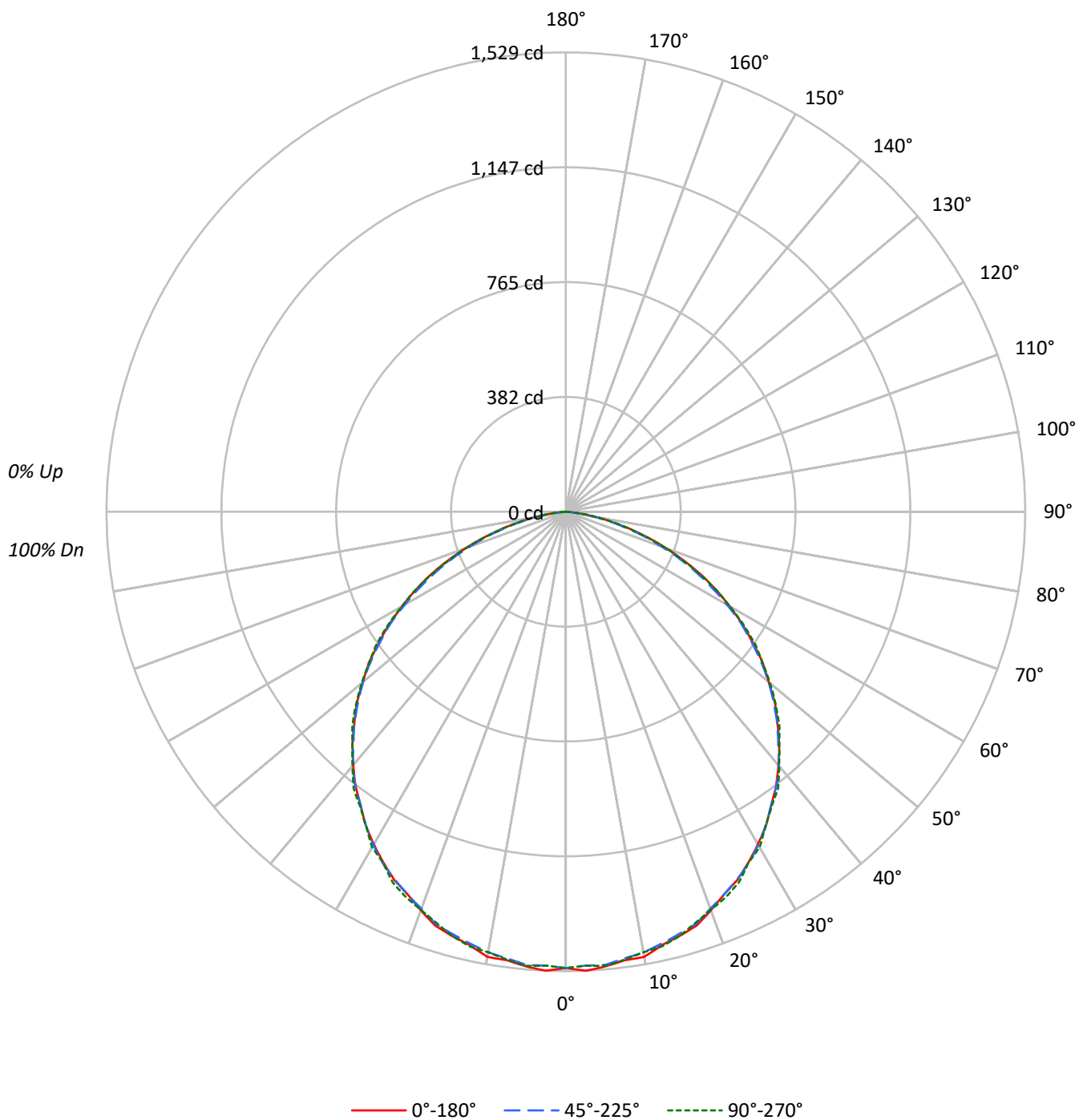
Lumens per Lamp: N/A
Luminaire Lumens: 4120.0 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1.81' x L: 3.81' x H: 0')
CIE Type: Direct

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

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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	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°	2366	2366	2366
5°	2375	2367	2373
10°	2380	2355	2355
15°	2357	2347	2357
20°	2339	2331	2337
25°	2323	2319	2341
30°	2299	2303	2320
35°	2266	2266	2273
40°	2238	2244	2246
45°	2194	2191	2214
50°	2135	2135	2150
55°	2062	2048	2090
60°	1959	1930	1967
65°	1831	1774	1817
70°	1620	1549	1620
75°	1331	1246	1316
80°	917	870	940
85°	440	416	440

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2214 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	3.5
10°-20°	411.6	10.0
20°-30°	622.5	15.1
30°-40°	747.7	18.1
40°-50°	768.1	18.6
50°-60°	677.6	16.4
60°-70°	482.4	11.7
70°-80°	229.4	5.6
80°-90°	37.0	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°	1177.7	28.6
0°-40°	1925.5	46.7
0°-60°	3371.2	81.8
0°-90°	4120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4120.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1519	1519	1519	1519	1519	
5°	1519	1517	1514	1510	1517	144
15°	1462	1458	1455	1460	1462	413
25°	1352	1349	1349	1352	1362	622
35°	1191	1193	1191	1203	1195	747
45°	996	995	995	1001	1005	769
55°	759	761	754	759	770	679
65°	497	493	481	485	493	489
75°	221	216	207	211	219	236
85°	25	23	23	25	25	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1518.7	1518.7	1518.7	1518.7	1518.7
2.5°	1529.0	1517.4	1512.2	1509.6	1512.2
5°	1518.7	1517.4	1513.5	1509.6	1517.4
7.5°	1505.7	1503.1	1499.3	1496.7	1503.1
10°	1504.4	1494.1	1488.9	1490.2	1488.9
12.5°	1477.3	1478.6	1472.1	1474.7	1481.1
15°	1461.7	1457.9	1455.3	1460.4	1461.7
17.5°	1444.9	1443.6	1438.5	1430.7	1434.6
20°	1411.3	1410.0	1406.1	1412.6	1410.0
22.5°	1377.7	1385.4	1377.7	1386.7	1389.3
25°	1351.8	1349.2	1349.2	1351.8	1362.1
27.5°	1315.6	1311.7	1319.4	1313.0	1316.9
30°	1278.1	1274.2	1280.6	1280.6	1289.7
32.5°	1239.2	1235.4	1239.2	1236.7	1237.9
35°	1191.4	1192.7	1191.4	1203.0	1195.3
37.5°	1150.0	1147.4	1151.3	1151.3	1160.3
40°	1100.8	1100.8	1103.4	1100.8	1104.7
42.5°	1051.7	1043.9	1046.5	1050.4	1051.7
45°	996.1	994.8	994.8	1001.2	1005.1
47.5°	944.3	939.1	937.8	940.4	946.9
50°	880.9	880.9	880.9	884.8	887.4
52.5°	826.6	822.7	818.8	821.4	824.0
55°	759.3	760.6	754.2	759.3	769.7
57.5°	697.2	695.9	692.1	692.1	702.4
60°	628.7	628.7	619.6	626.1	631.3
62.5°	564.0	562.7	549.8	553.6	565.3
65°	496.7	492.9	481.2	485.1	492.9
67.5°	425.6	421.7	411.4	413.9	420.4
70°	355.7	353.1	340.2	344.1	355.7
72.5°	287.2	282.0	274.2	275.5	283.3
75°	221.2	216.0	207.0	210.9	218.6
77.5°	159.1	156.5	150.1	151.3	159.1
80°	102.2	100.9	97.0	99.6	104.8
82.5°	59.5	56.9	53.0	55.6	58.2
85°	24.6	23.3	23.3	24.6	24.6
87.5°	5.2	5.2	6.5	6.5	6.5
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	14.72	16.33	15.08	16.64	16.96	14.70	16.31	15.06	16.62	16.93
	3H	16.28	17.73	16.65	18.05	18.41	16.23	17.68	16.60	18.00	18.36
	4H	16.75	18.11	17.15	18.46	18.84	16.69	18.05	17.09	18.40	18.78
	6H	17.00	18.26	17.41	18.62	19.01	16.94	18.20	17.35	18.57	18.96
	8H	17.03	18.24	17.46	18.63	19.03	16.98	18.18	17.40	18.57	18.97
	12H	17.04	18.19	17.47	18.57	19.00	16.98	18.13	17.41	18.51	18.94
4H	2H	15.26	16.62	15.66	16.97	17.35	15.24	16.61	15.64	16.95	17.33
	3H	17.01	18.14	17.42	18.54	18.94	16.96	18.09	17.37	18.49	18.89
	4H	17.58	18.60	18.01	19.01	19.45	17.51	18.53	17.94	18.95	19.38
	6H	17.91	18.79	18.36	19.24	19.69	17.84	18.73	18.30	19.17	19.63
	8H	17.96	18.79	18.42	19.23	19.70	17.90	18.73	18.36	19.17	19.64
	12H	17.98	18.72	18.46	19.20	19.67	17.91	18.66	18.39	19.13	19.60
8H	4H	17.76	18.59	18.22	19.03	19.50	17.70	18.53	18.16	18.97	19.44
	6H	18.14	18.83	18.64	19.32	19.79	18.08	18.77	18.58	19.26	19.73
	8H	18.22	18.84	18.73	19.34	19.83	18.16	18.78	18.67	19.28	19.77
	12H	18.26	18.80	18.77	19.29	19.85	18.20	18.74	18.71	19.23	19.80
12H	4H	17.76	18.50	18.24	18.98	19.45	17.70	18.45	18.18	18.92	19.39
	6H	18.14	18.75	18.65	19.26	19.75	18.08	18.70	18.59	19.20	19.69
	8H	18.25	18.79	18.76	19.28	19.85	18.19	18.73	18.70	19.23	19.79