

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: P997410

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

Issue Date: 6/20/2025

Test Information

Test Method: LM-79-2019
Report Number: P997410
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-HI
Description: Fail-Safe Sealed Selectable Panel Clear Outer Lens/Frosted Inner Lens
Light Source: -
Ballast/Driver: -

Summary

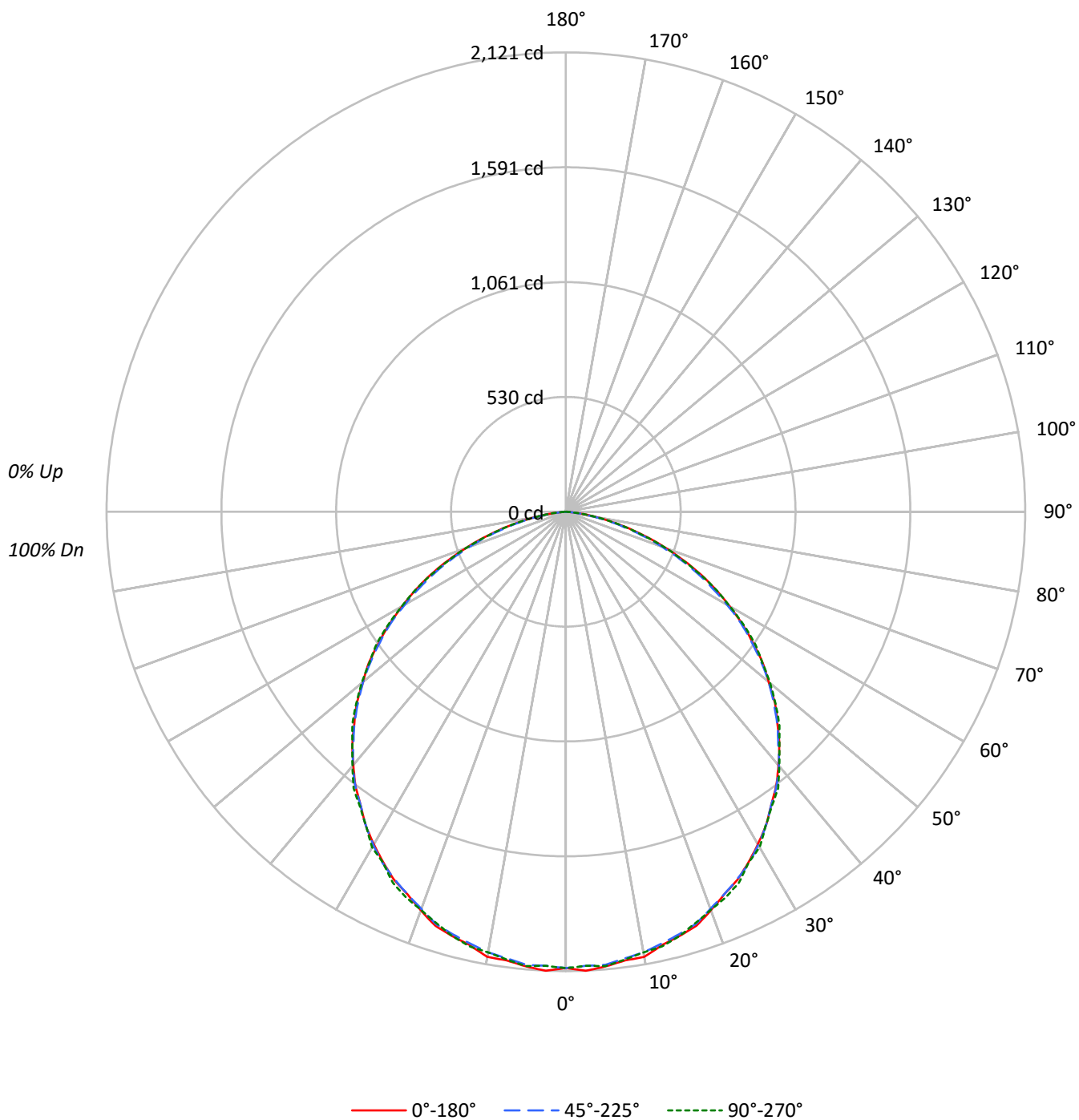
Lumens per Lamp: N/A
Luminaire Lumens: 5716.0 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1.81' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 60.5
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°	3282	3282	3282
5°	3294	3283	3292
10°	3301	3267	3267
15°	3270	3256	3270
20°	3246	3234	3243
25°	3223	3217	3248
30°	3189	3196	3218
35°	3143	3143	3153
40°	3106	3113	3117
45°	3044	3040	3072
50°	2962	2962	2983
55°	2861	2841	2900
60°	2717	2678	2728
65°	2540	2461	2520
70°	2248	2150	2248
75°	1847	1728	1825
80°	1272	1207	1304
85°	609	577	609

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3072 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.3	3.5
10°-20°	571.0	10.0
20°-30°	863.6	15.1
30°-40°	1037.4	18.1
40°-50°	1065.6	18.6
50°-60°	940.2	16.4
60°-70°	669.2	11.7
70°-80°	318.3	5.6
80°-90°	51.3	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°	1634.0	28.6
0°-40°	2671.3	46.7
0°-60°	4677.1	81.8
0°-90°	5716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5716.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2107	2107	2107	2107	2107	
5°	2107	2105	2100	2094	2105	200
15°	2028	2023	2019	2026	2028	573
25°	1875	1872	1872	1875	1890	863
35°	1653	1655	1653	1669	1658	1036
45°	1382	1380	1380	1389	1394	1067
55°	1054	1055	1046	1054	1068	942
65°	689	684	668	673	684	679
75°	307	300	287	292	303	328
85°	34	32	32	34	34	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2106.9	2106.9	2106.9	2106.9	2106.9
2.5°	2121.3	2105.2	2098.0	2094.4	2098.0
5°	2106.9	2105.2	2099.8	2094.4	2105.2
7.5°	2089.0	2085.4	2080.0	2076.4	2085.4
10°	2087.2	2072.9	2065.7	2067.5	2065.7
12.5°	2049.5	2051.3	2042.3	2045.9	2054.9
15°	2028.0	2022.6	2019.0	2026.2	2028.0
17.5°	2004.7	2002.9	1995.7	1984.9	1990.3
20°	1958.0	1956.2	1950.8	1959.8	1956.2
22.5°	1911.3	1922.1	1911.3	1923.9	1927.5
25°	1875.4	1871.8	1871.8	1875.4	1889.8
27.5°	1825.2	1819.8	1830.6	1821.6	1827.0
30°	1773.1	1767.8	1776.7	1776.7	1789.3
32.5°	1719.3	1713.9	1719.3	1715.7	1717.5
35°	1652.9	1654.7	1652.9	1669.0	1658.3
37.5°	1595.5	1591.9	1597.3	1597.3	1609.8
40°	1527.3	1527.3	1530.9	1527.3	1532.7
42.5°	1459.1	1448.3	1451.9	1457.3	1459.1
45°	1381.9	1380.1	1380.1	1389.1	1394.5
47.5°	1310.1	1302.9	1301.1	1304.7	1313.7
50°	1222.2	1222.2	1222.2	1227.6	1231.1
52.5°	1146.8	1141.4	1136.0	1139.6	1143.2
55°	1053.5	1055.3	1046.3	1053.5	1067.8
57.5°	967.3	965.5	960.2	960.2	974.5
60°	872.2	872.2	859.6	868.6	875.8
62.5°	782.5	780.7	762.7	768.1	784.3
65°	689.2	683.8	667.6	673.0	683.8
67.5°	590.4	585.1	570.7	574.3	583.3
70°	493.5	489.9	472.0	477.4	493.5
72.5°	398.4	391.2	380.5	382.3	393.0
75°	306.9	299.7	287.1	292.5	303.3
77.5°	220.7	217.2	208.2	210.0	220.7
80°	141.8	140.0	134.6	138.2	145.4
82.5°	82.6	79.0	73.6	77.2	80.8
85°	34.1	32.3	32.3	34.1	34.1
87.5°	7.2	7.2	9.0	9.0	9.0
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	15.85	17.46	16.22	17.78	18.09	15.83	17.44	16.20	17.76	18.07
	3H	17.41	18.86	17.79	19.19	19.55	17.36	18.81	17.74	19.14	19.50
	4H	17.89	19.25	18.29	19.60	19.98	17.83	19.19	18.23	19.54	19.92
	6H	18.13	19.40	18.55	19.76	20.15	18.08	19.34	18.49	19.70	20.09
	8H	18.17	19.37	18.60	19.76	20.16	18.12	19.32	18.54	19.71	20.11
	12H	18.17	19.33	18.60	19.71	20.14	18.12	19.27	18.55	19.65	20.08
4H	2H	16.40	17.76	16.80	18.11	18.49	16.38	17.74	16.78	18.09	18.47
	3H	18.15	19.28	18.56	19.68	20.08	18.09	19.23	18.50	19.63	20.03
	4H	18.72	19.74	19.15	20.15	20.59	18.65	19.67	19.08	20.09	20.52
	6H	19.04	19.93	19.50	20.37	20.83	18.98	19.87	19.43	20.31	20.77
	8H	19.10	19.93	19.56	20.37	20.84	19.03	19.86	19.49	20.31	20.77
	12H	19.11	19.86	19.60	20.33	20.80	19.05	19.79	19.53	20.27	20.74
8H	4H	18.90	19.73	19.36	20.17	20.64	18.84	19.67	19.30	20.11	20.58
	6H	19.28	19.97	19.77	20.46	20.93	19.22	19.91	19.71	20.40	20.87
	8H	19.36	19.98	19.87	20.48	20.97	19.30	19.91	19.81	20.42	20.91
	12H	19.40	19.94	19.91	20.43	20.99	19.34	19.88	19.85	20.37	20.93
12H	4H	18.90	19.64	19.38	20.12	20.59	18.84	19.58	19.32	20.06	20.53
	6H	19.28	19.89	19.79	20.40	20.89	19.22	19.83	19.73	20.34	20.83
	8H	19.39	19.93	19.90	20.42	20.98	19.33	19.87	19.84	20.36	20.93