

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: P997413

Luminaire Tested: FSP-24-L3C3-CP187-4000K-HI

Issue Date: 6/20/2025

Test Information

Test Method: LM-79-2019
Report Number: P997413
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-CP187-4000K-HI
Description: Fail-Safe Sealed Selectable Panel Clear Outer Lens/Frosted Inner Lens
Light Source: -
Ballast/Driver: -

Summary

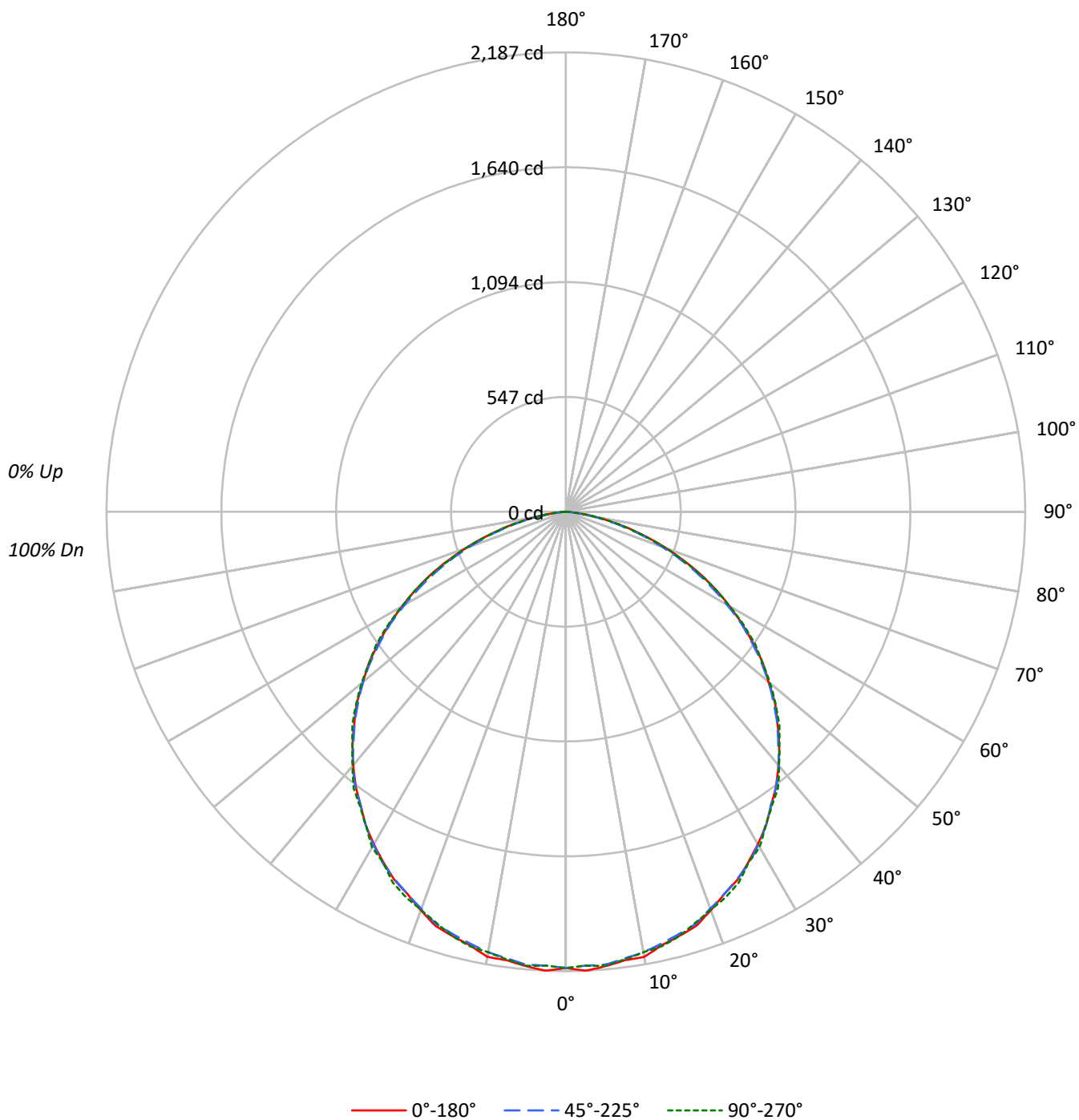
Lumens per Lamp: N/A
Luminaire Lumens: 5891.9 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1.81' x L: 3.81' x H: 0')
CIE Type: Direct

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°	3383	3383	3383
5°	3396	3384	3393
10°	3403	3368	3368
15°	3371	3356	3371
20°	3346	3333	3343
25°	3323	3316	3348
30°	3287	3294	3317
35°	3240	3240	3250
40°	3201	3209	3212
45°	3138	3134	3166
50°	3053	3053	3075
55°	2949	2929	2989
60°	2801	2761	2813
65°	2618	2537	2598
70°	2317	2216	2317
75°	1904	1781	1881
80°	1311	1244	1344
85°	627	595	627

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3166 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.4	3.5
10°-20°	588.6	10.0
20°-30°	890.2	15.1
30°-40°	1069.3	18.1
40°-50°	1098.4	18.6
50°-60°	969.1	16.4
60°-70°	689.8	11.7
70°-80°	328.1	5.6
80°-90°	52.9	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°	1684.3	28.6
0°-40°	2753.6	46.7
0°-60°	4821.1	81.8
0°-90°	5891.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5891.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2172	2172	2172	2172	2172	
5°	2172	2170	2164	2159	2170	206
15°	2090	2085	2081	2089	2090	590
25°	1933	1930	1930	1933	1948	889
35°	1704	1706	1704	1720	1709	1068
45°	1424	1423	1423	1432	1437	1100
55°	1086	1088	1078	1086	1101	971
65°	710	705	688	694	705	700
75°	316	309	296	302	313	338
85°	35	33	33	35	35	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2171.8	2171.8	2171.8	2171.8	2171.8
2.5°	2186.6	2170.0	2162.6	2158.9	2162.6
5°	2171.8	2170.0	2164.4	2158.9	2170.0
7.5°	2153.3	2149.6	2144.1	2140.4	2149.6
10°	2151.5	2136.7	2129.3	2131.1	2129.3
12.5°	2112.6	2114.5	2105.2	2108.9	2118.2
15°	2090.4	2084.9	2081.2	2088.6	2090.4
17.5°	2066.4	2064.5	2057.1	2046.0	2051.6
20°	2018.3	2016.4	2010.9	2020.1	2016.4
22.5°	1970.2	1981.3	1970.2	1983.1	1986.8
25°	1933.2	1929.5	1929.5	1933.2	1948.0
27.5°	1881.4	1875.8	1886.9	1877.7	1883.2
30°	1827.7	1822.2	1831.4	1831.4	1844.4
32.5°	1772.2	1766.7	1772.2	1768.5	1770.4
35°	1703.8	1705.6	1703.8	1720.4	1709.3
37.5°	1644.6	1640.9	1646.4	1646.4	1659.4
40°	1574.3	1574.3	1578.0	1574.3	1579.8
42.5°	1504.0	1492.9	1496.6	1502.1	1504.0
45°	1424.5	1422.6	1422.6	1431.8	1437.4
47.5°	1350.5	1343.1	1341.2	1344.9	1354.2
50°	1259.8	1259.8	1259.8	1265.4	1269.1
52.5°	1182.1	1176.6	1171.0	1174.7	1178.4
55°	1085.9	1087.8	1078.5	1085.9	1100.7
57.5°	997.1	995.3	989.7	989.7	1004.5
60°	899.1	899.1	886.1	895.4	902.8
62.5°	806.6	804.7	786.2	791.8	808.4
65°	710.4	704.8	688.2	693.7	704.8
67.5°	608.6	603.1	588.3	592.0	601.2
70°	508.7	505.0	486.5	492.1	508.7
72.5°	410.7	403.3	392.2	394.0	405.1
75°	316.3	308.9	296.0	301.5	312.6
77.5°	227.5	223.8	214.6	216.4	227.5
80°	146.1	144.3	138.7	142.4	149.8
82.5°	85.1	81.4	75.8	79.5	83.2
85°	35.1	33.3	33.3	35.1	35.1
87.5°	7.4	7.4	9.2	9.2	9.2
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	15.96	17.57	16.33	17.88	18.20	15.94	17.55	16.30	17.86	18.18
	3H	17.52	18.97	17.90	19.30	19.66	17.47	18.92	17.85	19.25	19.61
	4H	18.00	19.36	18.39	19.71	20.08	17.93	19.30	18.33	19.64	20.02
	6H	18.24	19.50	18.65	19.87	20.26	18.18	19.44	18.59	19.81	20.20
	8H	18.28	19.48	18.70	19.87	20.27	18.22	19.42	18.65	19.81	20.21
	12H	18.28	19.43	18.71	19.81	20.24	18.22	19.37	18.65	19.76	20.18
4H	2H	16.51	17.87	16.90	18.22	18.59	16.49	17.85	16.89	18.20	18.57
	3H	18.25	19.39	18.66	19.78	20.18	18.20	19.33	18.61	19.73	20.13
	4H	18.82	19.84	19.25	20.26	20.69	18.75	19.78	19.19	20.19	20.63
	6H	19.15	20.04	19.60	20.48	20.94	19.08	19.97	19.54	20.41	20.87
	8H	19.20	20.03	19.66	20.48	20.94	19.14	19.97	19.60	20.41	20.88
	12H	19.22	19.96	19.70	20.44	20.91	19.15	19.90	19.64	20.38	20.85
8H	4H	19.00	19.83	19.46	20.28	20.74	18.94	19.77	19.40	20.22	20.68
	6H	19.39	20.07	19.88	20.56	21.04	19.32	20.01	19.82	20.50	20.98
	8H	19.47	20.08	19.98	20.59	21.07	19.40	20.02	19.92	20.53	21.01
	12H	19.50	20.04	20.01	20.54	21.10	19.44	19.98	19.95	20.48	21.04
12H	4H	19.00	19.75	19.48	20.22	20.69	18.94	19.69	19.42	20.16	20.63
	6H	19.38	20.00	19.89	20.51	20.99	19.32	19.94	19.83	20.45	20.93
	8H	19.49	20.04	20.00	20.53	21.09	19.44	19.98	19.94	20.47	21.03

END OF REPORT