

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: P997414

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

Issue Date: 6/20/2025

Test Information

Test Method: LM-79-2019
Report Number: P997414
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-LOW
Description: Fail-Safe Sealed Selectable Panel Clear Outer Lens/Frosted Inner Lens
Light Source: -
Ballast/Driver: -

Summary

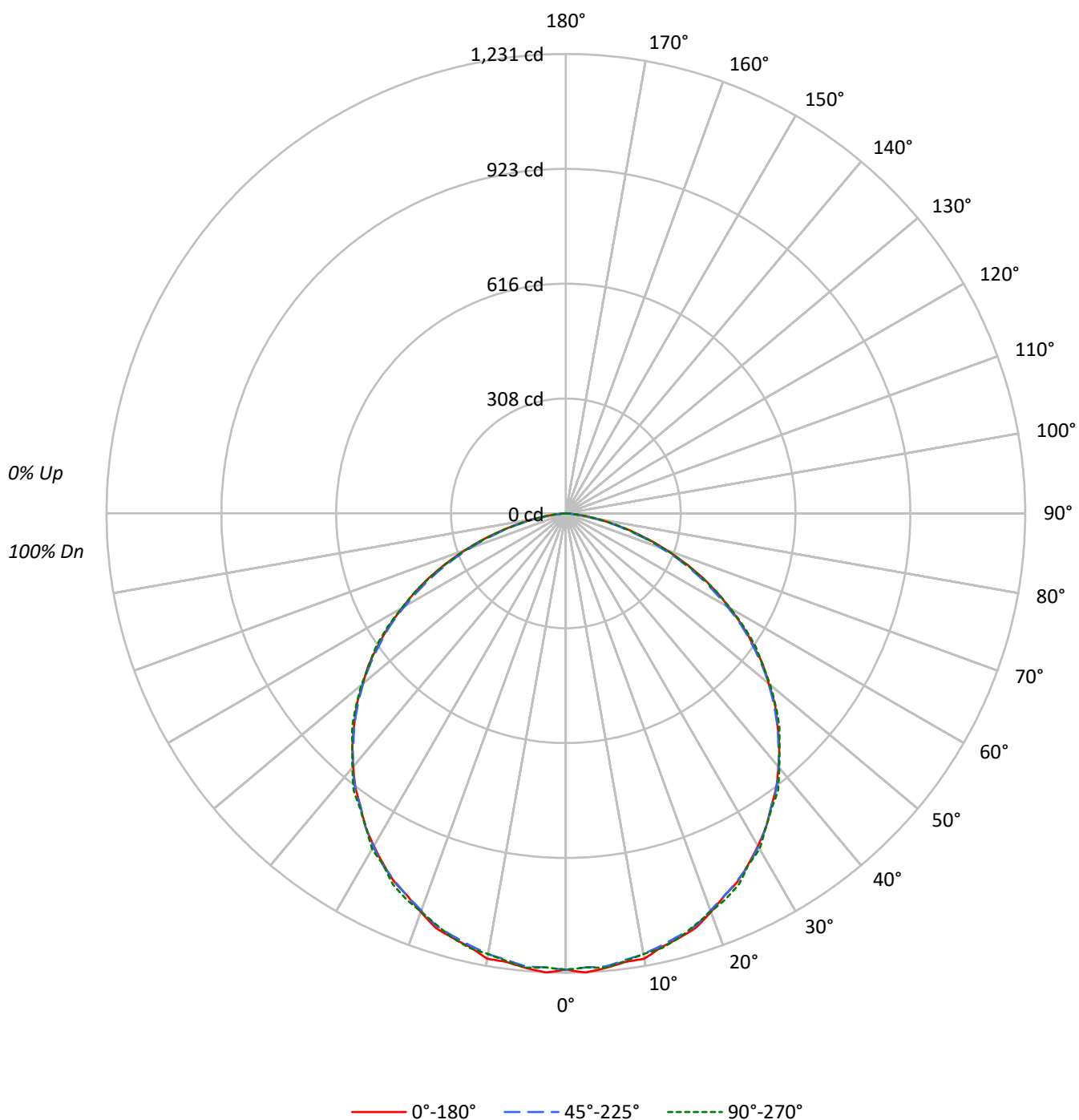
Lumens per Lamp: N/A
Luminaire Lumens: 3318.0 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1.81' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 30.2
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°	1905	1905	1905
5°	1912	1906	1911
10°	1916	1897	1897
15°	1898	1890	1898
20°	1884	1877	1882
25°	1871	1868	1885
30°	1851	1855	1868
35°	1825	1825	1830
40°	1803	1807	1809
45°	1767	1765	1783
50°	1719	1719	1732
55°	1661	1649	1683
60°	1577	1555	1584
65°	1474	1428	1463
70°	1305	1248	1305
75°	1072	1003	1060
80°	738	701	757
85°	354	336	354

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1783 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	3.5
10°-20°	331.5	10.0
20°-30°	501.3	15.1
30°-40°	602.2	18.1
40°-50°	618.6	18.6
50°-60°	545.7	16.4
60°-70°	388.5	11.7
70°-80°	184.8	5.6
80°-90°	29.8	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°	948.5	28.6
0°-40°	1550.6	46.7
0°-60°	2714.9	81.8
0°-90°	3318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3318.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1223	1223	1223	1223	1223	
5°	1223	1222	1219	1216	1222	116
15°	1177	1174	1172	1176	1177	332
25°	1089	1087	1087	1089	1097	501
35°	960	960	960	969	963	602
45°	802	801	801	806	810	619
55°	612	613	607	612	620	547
65°	400	397	388	391	397	394
75°	178	174	167	170	176	190
85°	20	19	19	20	20	31
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1231.4	1222.0	1217.8	1215.7	1217.8
5°	1223.0	1222.0	1218.9	1215.7	1222.0
7.5°	1212.6	1210.5	1207.4	1205.3	1210.5
10°	1211.6	1203.2	1199.1	1200.1	1199.1
12.5°	1189.7	1190.7	1185.5	1187.6	1192.8
15°	1177.2	1174.1	1172.0	1176.2	1177.2
17.5°	1163.7	1162.6	1158.4	1152.2	1155.3
20°	1136.6	1135.5	1132.4	1137.6	1135.5
22.5°	1109.5	1115.7	1109.5	1116.8	1118.9
25°	1088.6	1086.6	1086.6	1088.6	1097.0
27.5°	1059.5	1056.4	1062.6	1057.4	1060.5
30°	1029.3	1026.1	1031.3	1031.3	1038.6
32.5°	998.0	994.9	998.0	995.9	997.0
35°	959.5	960.5	959.5	968.8	962.6
37.5°	926.1	924.0	927.2	927.2	934.5
40°	886.5	886.5	888.6	886.5	889.7
42.5°	847.0	840.7	842.8	845.9	847.0
45°	802.2	801.1	801.1	806.3	809.5
47.5°	760.5	756.3	755.3	757.4	762.6
50°	709.4	709.4	709.4	712.6	714.7
52.5°	665.7	662.6	659.4	661.5	663.6
55°	611.5	612.6	607.3	611.5	619.9
57.5°	561.5	560.5	557.3	557.3	565.7
60°	506.3	506.3	499.0	504.2	508.4
62.5°	454.2	453.2	442.8	445.9	455.3
65°	400.0	396.9	387.5	390.7	396.9
67.5°	342.7	339.6	331.3	333.4	338.6
70°	286.5	284.4	274.0	277.1	286.5
72.5°	231.3	227.1	220.9	221.9	228.1
75°	178.1	174.0	166.7	169.8	176.1
77.5°	128.1	126.1	120.8	121.9	128.1
80°	82.3	81.3	78.1	80.2	84.4
82.5°	47.9	45.8	42.7	44.8	46.9
85°	19.8	18.8	18.8	19.8	19.8
87.5°	4.2	4.2	5.2	5.2	5.2
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	13.97	15.58	14.33	15.89	16.20	13.94	15.55	14.31	15.87	16.18
	3H	15.53	16.98	15.90	17.30	17.66	15.47	16.92	15.85	17.25	17.61
	4H	16.00	17.36	16.40	17.71	18.09	15.94	17.30	16.34	17.65	18.03
	6H	16.25	17.51	16.66	17.87	18.26	16.19	17.45	16.60	17.81	18.20
	8H	16.28	17.49	16.71	17.87	18.27	16.23	17.43	16.65	17.82	18.22
	12H	16.29	17.44	16.71	17.82	18.25	16.23	17.38	16.66	17.76	18.19
4H	2H	14.51	15.87	14.91	16.22	16.60	14.49	15.85	14.89	16.20	16.58
	3H	16.26	17.39	16.67	17.79	18.19	16.20	17.34	16.61	17.74	18.14
	4H	16.83	17.85	17.26	18.26	18.70	16.76	17.78	17.19	18.20	18.63
	6H	17.15	18.04	17.61	18.48	18.94	17.09	17.98	17.54	18.42	18.88
	8H	17.21	18.04	17.67	18.48	18.95	17.14	17.97	17.60	18.42	18.88
	12H	17.22	17.97	17.71	18.45	18.92	17.16	17.90	17.64	18.38	18.85
8H	4H	17.01	17.84	17.47	18.28	18.75	16.95	17.78	17.41	18.22	18.69
	6H	17.39	18.08	17.88	18.57	19.04	17.33	18.02	17.82	18.51	18.98
	8H	17.47	18.09	17.98	18.59	19.08	17.41	18.02	17.92	18.53	19.02
	12H	17.51	18.05	18.02	18.54	19.10	17.45	17.99	17.96	18.48	19.04
12H	4H	17.01	17.75	17.49	18.23	18.70	16.95	17.69	17.43	18.17	18.64
	6H	17.39	18.00	17.90	18.51	19.00	17.33	17.94	17.84	18.45	18.94
	8H	17.50	18.04	18.01	18.53	19.10	17.44	17.98	17.95	18.47	19.04