

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: P997411

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

Issue Date: 6/20/2025

Test Information

Test Method: LM-79-2019
Report Number: P997411
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-LOW
Description: Fail-Safe Sealed Selectable Panel Clear Outer Lens/Frosted Inner Lens
Light Source: -
Ballast/Driver: -

Summary

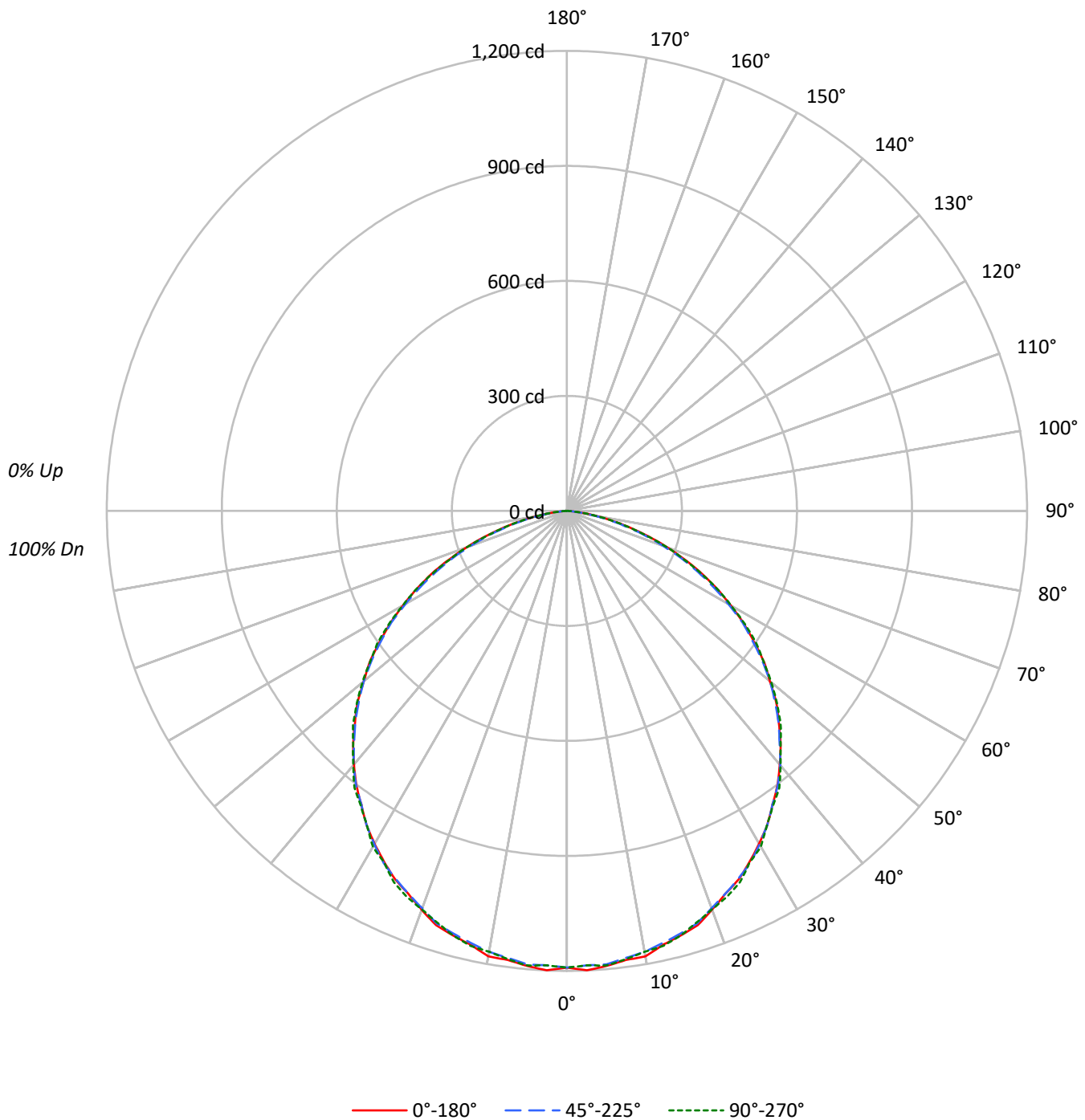
Lumens per Lamp: N/A
Luminaire Lumens: 3232.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1.81' x L: 3.81' x H: 0')
CIE Type: Direct

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°	1856	1856	1856
5°	1863	1857	1861
10°	1867	1847	1847
15°	1849	1841	1849
20°	1835	1828	1834
25°	1823	1819	1836
30°	1803	1807	1820
35°	1777	1777	1783
40°	1756	1760	1762
45°	1721	1719	1737
50°	1675	1675	1687
55°	1618	1607	1640
60°	1537	1514	1543
65°	1436	1391	1425
70°	1271	1216	1271
75°	1044	977	1032
80°	719	683	737
85°	345	327	345

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1737 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	3.5
10°-20°	322.9	10.0
20°-30°	488.3	15.1
30°-40°	586.6	18.1
40°-50°	602.5	18.6
50°-60°	531.6	16.4
60°-70°	378.4	11.7
70°-80°	180.0	5.6
80°-90°	29.0	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°	923.9	28.6
0°-40°	1510.4	46.7
0°-60°	2644.6	81.8
0°-90°	3232.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3232.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1191	1191	1191	1191	1191	
5°	1191	1190	1187	1184	1190	113
15°	1147	1144	1142	1146	1147	324
25°	1060	1058	1058	1060	1068	488
35°	935	936	935	944	938	586
45°	781	780	780	785	788	603
55°	596	597	592	596	604	533
65°	390	387	378	380	387	384
75°	174	170	162	165	172	185
85°	19	18	18	19	19	30
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1191.3	1191.3	1191.3	1191.3	1191.3
2.5°	1199.5	1190.3	1186.3	1184.2	1186.3
5°	1191.3	1190.3	1187.3	1184.2	1190.3
7.5°	1181.2	1179.2	1176.1	1174.1	1179.2
10°	1180.2	1172.1	1168.0	1169.0	1168.0
12.5°	1158.9	1159.9	1154.8	1156.8	1161.9
15°	1146.7	1143.6	1141.6	1145.7	1146.7
17.5°	1133.5	1132.5	1128.4	1122.3	1125.4
20°	1107.1	1106.1	1103.0	1108.1	1106.1
22.5°	1080.7	1086.8	1080.7	1087.8	1089.9
25°	1060.4	1058.4	1058.4	1060.4	1068.5
27.5°	1032.0	1029.0	1035.1	1030.0	1033.0
30°	1002.6	999.5	1004.6	1004.6	1011.7
32.5°	972.1	969.1	972.1	970.1	971.1
35°	934.6	935.6	934.6	943.7	937.6
37.5°	902.1	900.1	903.1	903.1	910.2
40°	863.6	863.6	865.6	863.6	866.6
42.5°	825.0	818.9	820.9	824.0	825.0
45°	781.4	780.4	780.4	785.4	788.5
47.5°	740.8	736.7	735.7	737.7	742.8
50°	691.1	691.1	691.1	694.1	696.1
52.5°	648.4	645.4	642.3	644.4	646.4
55°	595.7	596.7	591.6	595.7	603.8
57.5°	547.0	545.9	542.9	542.9	551.0
60°	493.2	493.2	486.1	491.1	495.2
62.5°	442.4	441.4	431.3	434.3	443.5
65°	389.7	386.6	377.5	380.5	386.6
67.5°	333.9	330.8	322.7	324.7	329.8
70°	279.1	277.0	266.9	269.9	279.1
72.5°	225.3	221.2	215.1	216.1	222.2
75°	173.5	169.5	162.4	165.4	171.5
77.5°	124.8	122.8	117.7	118.7	124.8
80°	80.2	79.2	76.1	78.1	82.2
82.5°	46.7	44.6	41.6	43.6	45.7
85°	19.3	18.3	18.3	19.3	19.3
87.5°	4.1	4.1	5.1	5.1	5.1
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	13.87	15.48	14.24	15.80	16.11	13.85	15.46	14.22	15.78	16.09
	3H	15.43	16.88	15.81	17.21	17.57	15.38	16.83	15.76	17.16	17.52
	4H	15.91	17.27	16.31	17.62	18.00	15.85	17.21	16.25	17.56	17.93
	6H	16.15	17.41	16.57	17.78	18.17	16.10	17.36	16.51	17.72	18.11
	8H	16.19	17.39	16.62	17.78	18.18	16.14	17.34	16.56	17.73	18.13
	12H	16.19	17.35	16.62	17.73	18.16	16.14	17.29	16.57	17.67	18.10
4H	2H	14.42	15.78	14.82	16.13	16.51	14.40	15.76	14.80	16.11	16.49
	3H	16.17	17.30	16.57	17.70	18.10	16.11	17.25	16.52	17.65	18.05
	4H	16.73	17.76	17.17	18.17	18.61	16.67	17.69	17.10	18.10	18.54
	6H	17.06	17.95	17.52	18.39	18.85	17.00	17.89	17.45	18.33	18.78
	8H	17.12	17.95	17.58	18.39	18.86	17.05	17.88	17.51	18.33	18.79
	12H	17.13	17.88	17.61	18.35	18.82	17.07	17.81	17.55	18.29	18.76
8H	4H	16.92	17.75	17.38	18.19	18.66	16.86	17.69	17.32	18.13	18.60
	6H	17.30	17.99	17.79	18.47	18.95	17.24	17.92	17.73	18.41	18.89
	8H	17.38	17.99	17.89	18.50	18.99	17.32	17.93	17.83	18.44	18.93
	12H	17.42	17.96	17.92	18.45	19.01	17.36	17.90	17.86	18.39	18.95
12H	4H	16.92	17.66	17.40	18.14	18.61	16.86	17.60	17.34	18.08	18.55
	6H	17.30	17.91	17.81	18.42	18.91	17.24	17.85	17.75	18.36	18.85
	8H	17.41	17.95	17.92	18.44	19.00	17.35	17.89	17.86	18.38	18.94