

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: P997384

Luminaire Tested: FSP-24-L3C3-CA08-3500K-LOW

Issue Date: 6/20/2025

Test Information

Test Method: LM-79-2019
Report Number: P997384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-14)
Test Lab: INNOVATION CENTER
Issue Date: 6/20/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FSP-24-L3C3-CA08-3500K-LOW
Description: Fail-Safe Sealed Selectable Panel Clear Outer Lens/Frosted Inner Lens
Light Source: -
Ballast/Driver: -

Summary

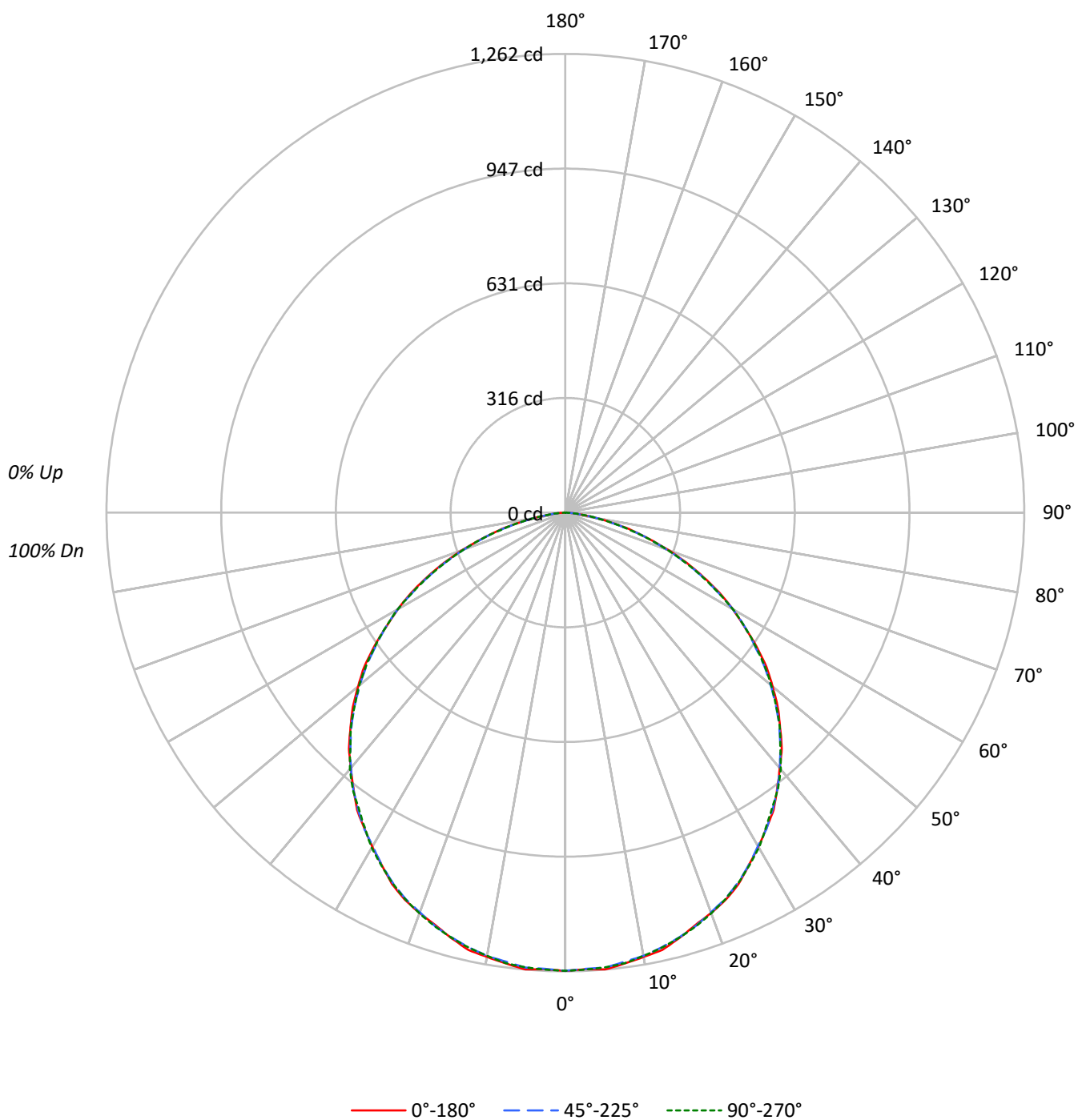
Lumens per Lamp: N/A
Luminaire Lumens: 3456.0 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1.81' x L: 3.81' x H: 0')
CIE Type: Direct

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	102	99	95	98	95	92		94	92	90		91
2	100	92	85	79	97	90	84	78	86	81	77		83	79	75		80
3	91	81	73	66	88	79	72	66	76	70	64		73	68	63		71
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63
5	77	64	55	48	74	63	54	48	61	53	48		59	52	47		57
6	71	57	49	42	69	57	48	42	55	47	42		53	46	41		51
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47
8	61	48	39	33	59	47	39	33	46	38	33		44	38	33		43
9	57	44	35	30	56	43	35	30	42	35	30		41	34	30		40
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1963	1963	1963
5°	1973	1965	1963
10°	1963	1958	1958
15°	1954	1951	1952
20°	1943	1940	1945
25°	1938	1931	1933
30°	1909	1906	1915
35°	1899	1891	1885
40°	1865	1865	1874
45°	1840	1833	1838
50°	1803	1786	1793
55°	1742	1723	1731
60°	1657	1657	1660
65°	1545	1530	1526
70°	1377	1349	1354
75°	1154	1118	1106
80°	792	792	801
85°	416	416	454

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1840 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	3.5
10°-20°	341.5	9.9
20°-30°	517.2	15.0
30°-40°	622.0	18.0
40°-50°	642.1	18.6
50°-60°	570.3	16.5
60°-70°	410.5	11.9
70°-80°	198.6	5.7
80°-90°	34.6	1.0
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°	977.9	28.3
0°-40°	1599.9	46.3
0°-60°	2812.2	81.4
0°-90°	3456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1260	1260	1260	1260	1260	
5°	1262	1258	1256	1252	1255	120
15°	1212	1211	1210	1207	1211	342
25°	1128	1122	1123	1123	1124	518
35°	999	996	994	996	992	622
45°	835	834	832	832	834	645
55°	641	640	634	637	637	572
65°	419	416	415	411	414	414
75°	192	188	186	185	184	201
85°	23	23	23	23	25	34
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1260.4	1260.4	1260.4	1260.4	1260.4
2.5°	1257.4	1257.4	1256.4	1257.4	1258.4
5°	1261.5	1258.4	1256.4	1252.3	1255.4
7.5°	1251.3	1248.3	1246.2	1243.2	1250.3
10°	1241.2	1241.2	1238.1	1233.0	1238.1
12.5°	1232.0	1225.9	1224.9	1223.9	1225.9
15°	1211.7	1210.7	1209.7	1206.7	1210.7
17.5°	1189.4	1192.4	1192.4	1192.4	1193.5
20°	1172.1	1170.1	1170.1	1170.1	1173.2
22.5°	1152.9	1148.8	1149.8	1145.8	1150.8
25°	1127.5	1122.4	1123.4	1123.4	1124.4
27.5°	1093.0	1093.0	1093.0	1094.0	1095.0
30°	1061.5	1063.6	1059.5	1058.5	1064.6
32.5°	1029.1	1029.1	1030.1	1026.0	1027.0
35°	998.6	995.6	994.5	995.6	991.5
37.5°	957.0	959.0	958.0	957.0	960.0
40°	917.4	920.5	917.4	916.4	921.5
42.5°	880.9	877.8	874.8	872.8	874.8
45°	835.2	834.2	832.2	832.2	834.2
47.5°	792.6	790.6	785.5	784.5	785.5
50°	743.9	741.9	736.8	740.8	739.8
52.5°	697.2	693.1	688.1	690.1	690.1
55°	641.4	640.4	634.3	637.3	637.3
57.5°	583.5	587.6	585.6	584.6	585.6
60°	531.8	534.8	531.8	528.7	532.8
62.5°	478.0	476.0	471.9	471.9	471.9
65°	419.1	416.1	415.1	411.0	414.1
67.5°	361.3	358.2	356.2	355.2	355.2
70°	302.4	300.4	296.3	295.3	297.3
72.5°	241.5	242.5	240.5	238.5	241.5
75°	191.8	187.7	185.7	184.7	183.7
77.5°	136.0	134.0	132.9	132.9	134.0
80°	88.3	88.3	88.3	88.3	89.3
82.5°	50.7	51.8	50.7	52.8	53.8
85°	23.3	23.3	23.3	23.3	25.4
87.5°	8.1	7.1	7.1	8.1	8.1
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	14.14	15.75	14.50	16.07	16.38	14.11	15.73	14.47	16.04	16.35
	3H	15.72	17.17	16.09	17.50	17.86	15.66	17.12	16.04	17.44	17.80
	4H	16.21	17.58	16.61	17.93	18.30	16.14	17.51	16.54	17.85	18.23
	6H	16.46	17.73	16.87	18.09	18.48	16.39	17.66	16.80	18.02	18.42
	8H	16.50	17.71	16.93	18.10	18.50	16.44	17.65	16.86	18.04	18.44
	12H	16.51	17.66	16.94	18.05	18.48	16.45	17.61	16.88	17.99	18.42
4H	2H	14.71	16.08	15.11	16.43	16.80	14.69	16.06	15.09	16.41	16.78
	3H	16.48	17.62	16.89	18.02	18.42	16.43	17.57	16.84	17.97	18.37
	4H	17.07	18.09	17.50	18.51	18.95	17.00	18.03	17.43	18.44	18.88
	6H	17.40	18.30	17.86	18.74	19.19	17.34	18.23	17.79	18.67	19.13
	8H	17.46	18.30	17.92	18.74	19.21	17.41	18.24	17.87	18.68	19.15
	12H	17.48	18.23	17.96	18.71	19.18	17.43	18.18	17.91	18.66	19.13
8H	4H	17.27	18.10	17.73	18.55	19.01	17.21	18.04	17.67	18.49	18.95
	6H	17.66	18.35	18.16	18.84	19.32	17.61	18.30	18.10	18.79	19.26
	8H	17.75	18.37	18.26	18.88	19.36	17.70	18.32	18.21	18.83	19.32
	12H	17.80	18.34	18.31	18.83	19.40	17.76	18.30	18.27	18.80	19.36
12H	4H	17.27	18.02	17.75	18.50	18.97	17.21	17.96	17.69	18.44	18.91
	6H	17.66	18.29	18.18	18.79	19.28	17.61	18.23	18.12	18.74	19.22
	8H	17.79	18.34	18.30	18.83	19.39	17.74	18.29	18.25	18.78	19.34