

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: P1499126

Luminaire Tested: MAE-G-4-120-1STD-HI-50-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1STD-HI-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

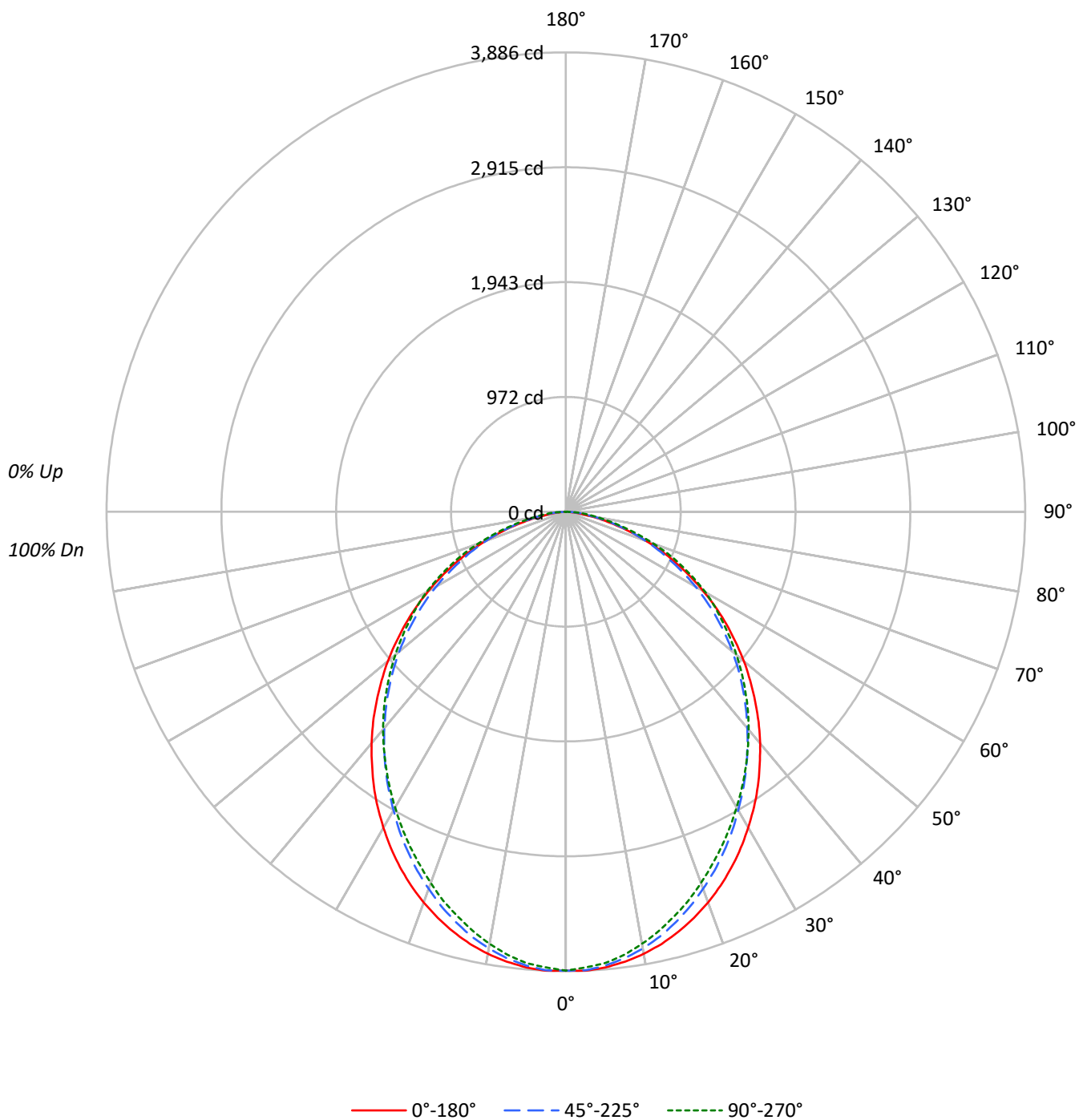
Lumens per Lamp: N/A
Luminaire Lumens: 9248.0 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 123
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	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	60	56		64
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53
7	67	53	45	39	65	53	45	39	51	44	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5223	5223	5223
5°	5225	5204	5176
10°	5188	5126	5071
15°	5124	5006	4934
20°	5036	4859	4786
25°	4926	4703	4635
30°	4794	4530	4488
35°	4653	4366	4352
40°	4490	4196	4225
45°	4309	4028	4086
50°	4115	3850	3941
55°	3890	3645	3794
60°	3615	3410	3670
65°	3293	3113	3441
70°	2862	2815	3110
75°	2289	2427	2622
80°	1588	1918	2145
85°	891	1491	1968

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4309 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.2	3.9
10°-20°	1013.6	11.0
20°-30°	1469.3	15.9
30°-40°	1687.6	18.2
40°-50°	1667.3	18.0
50°-60°	1425.7	15.4
60°-70°	1008.9	10.9
70°-80°	499.1	5.4
80°-90°	112.2	1.2
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°	2847.1	30.8
0°-40°	4534.7	49.0
0°-60°	7627.7	82.5
0°-90°	9248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9248.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3882	3882	3882	3882	3882	
5°	3869	3866	3853	3824	3832	367
15°	3678	3656	3594	3538	3542	1036
25°	3318	3264	3168	3116	3122	1527
35°	2833	2758	2658	2636	2650	1770
45°	2264	2194	2117	2130	2147	1747
55°	1658	1593	1554	1587	1617	1480
65°	1034	983	978	1049	1081	1023
75°	440	418	467	501	504	475
85°	58	71	97	118	128	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3881.8	3881.8	3881.8	3881.8	3881.8
2.5°	3886.2	3889.7	3881.8	3851.7	3857.6
5°	3868.8	3865.7	3853.1	3823.5	3832.4
7.5°	3838.1	3832.3	3809.8	3774.3	3779.9
10°	3797.4	3785.9	3751.8	3707.1	3711.4
12.5°	3744.5	3728.6	3680.4	3628.8	3632.9
15°	3678.5	3655.8	3593.7	3538.3	3541.9
17.5°	3602.8	3576.1	3500.4	3440.0	3449.2
20°	3517.2	3481.4	3393.8	3335.4	3342.4
22.5°	3422.4	3377.8	3285.2	3227.7	3232.0
25°	3318.1	3264.2	3168.0	3116.4	3121.9
27.5°	3205.8	3146.3	3046.0	2997.9	3007.6
30°	3085.9	3021.5	2915.7	2878.3	2888.7
32.5°	2962.5	2893.7	2788.8	2759.9	2770.3
35°	2832.7	2757.9	2658.3	2636.1	2649.7
37.5°	2694.0	2621.4	2522.5	2515.6	2527.9
40°	2556.4	2481.3	2389.0	2389.6	2405.3
42.5°	2413.1	2340.2	2254.5	2260.7	2279.4
45°	2264.4	2193.7	2116.9	2129.6	2147.1
47.5°	2114.6	2044.9	1979.5	1996.6	2018.4
50°	1965.9	1898.5	1839.4	1863.2	1882.9
52.5°	1809.3	1745.3	1698.8	1724.9	1752.2
55°	1658.3	1593.2	1553.7	1587.4	1617.4
57.5°	1501.8	1446.8	1411.8	1454.9	1493.6
60°	1343.2	1289.3	1267.1	1325.9	1363.9
62.5°	1187.6	1135.1	1120.2	1192.9	1222.3
65°	1034.4	983.1	977.7	1049.3	1080.7
67.5°	882.0	835.5	847.4	919.1	941.0
70°	727.4	685.6	715.6	777.8	790.6
72.5°	581.6	546.9	591.2	638.0	643.3
75°	440.3	418.2	466.9	500.8	504.4
77.5°	315.4	303.8	350.7	376.3	380.8
80°	205.0	209.5	247.5	268.7	276.8
82.5°	119.8	131.1	161.5	190.0	198.4
85°	57.7	71.2	96.6	118.3	127.5
87.5°	19.8	28.9	40.6	45.1	43.8
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	16.56	18.14	16.92	18.46	18.77	16.59	18.18	16.96	18.49	18.81
	3H	18.02	19.44	18.39	19.77	20.13	18.28	19.70	18.66	20.03	20.39
	4H	18.45	19.79	18.85	20.14	20.51	18.82	20.16	19.21	20.50	20.88
	6H	18.68	19.91	19.09	20.28	20.67	19.15	20.39	19.56	20.76	21.15
	8H	18.71	19.89	19.14	20.28	20.68	19.25	20.44	19.68	20.82	21.22
	12H	18.72	19.85	19.15	20.23	20.66	19.33	20.46	19.76	20.84	21.27
4H	2H	17.06	18.40	17.46	18.75	19.12	17.09	18.43	17.49	18.78	19.15
	3H	18.71	19.82	19.12	20.22	20.62	18.98	20.10	19.39	20.50	20.90
	4H	19.23	20.23	19.66	20.65	21.08	19.64	20.64	20.07	21.06	21.49
	6H	19.53	20.41	19.99	20.85	21.31	20.08	20.96	20.54	21.40	21.86
	8H	19.59	20.41	20.05	20.85	21.32	20.22	21.04	20.69	21.48	21.95
	12H	19.62	20.35	20.10	20.83	21.30	20.34	21.07	20.82	21.55	22.02
8H	4H	19.46	20.28	19.92	20.72	21.19	19.83	20.65	20.29	21.09	21.56
	6H	19.83	20.51	20.33	21.00	21.48	20.36	21.04	20.86	21.53	22.00
	8H	19.93	20.53	20.44	21.04	21.53	20.56	21.17	21.07	21.68	22.16
	12H	19.98	20.52	20.49	21.01	21.57	20.74	21.27	21.25	21.77	22.33
12H	4H	19.47	20.21	19.95	20.68	21.15	19.83	20.56	20.31	21.04	21.51
	6H	19.86	20.47	20.37	20.98	21.46	20.37	20.98	20.88	21.48	21.97
	8H	20.00	20.53	20.50	21.02	21.58	20.62	21.15	21.12	21.64	22.20

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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