

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: P1499417

Luminaire Tested: MAE-G-4-120-2STD-LO-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2STD-LO-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

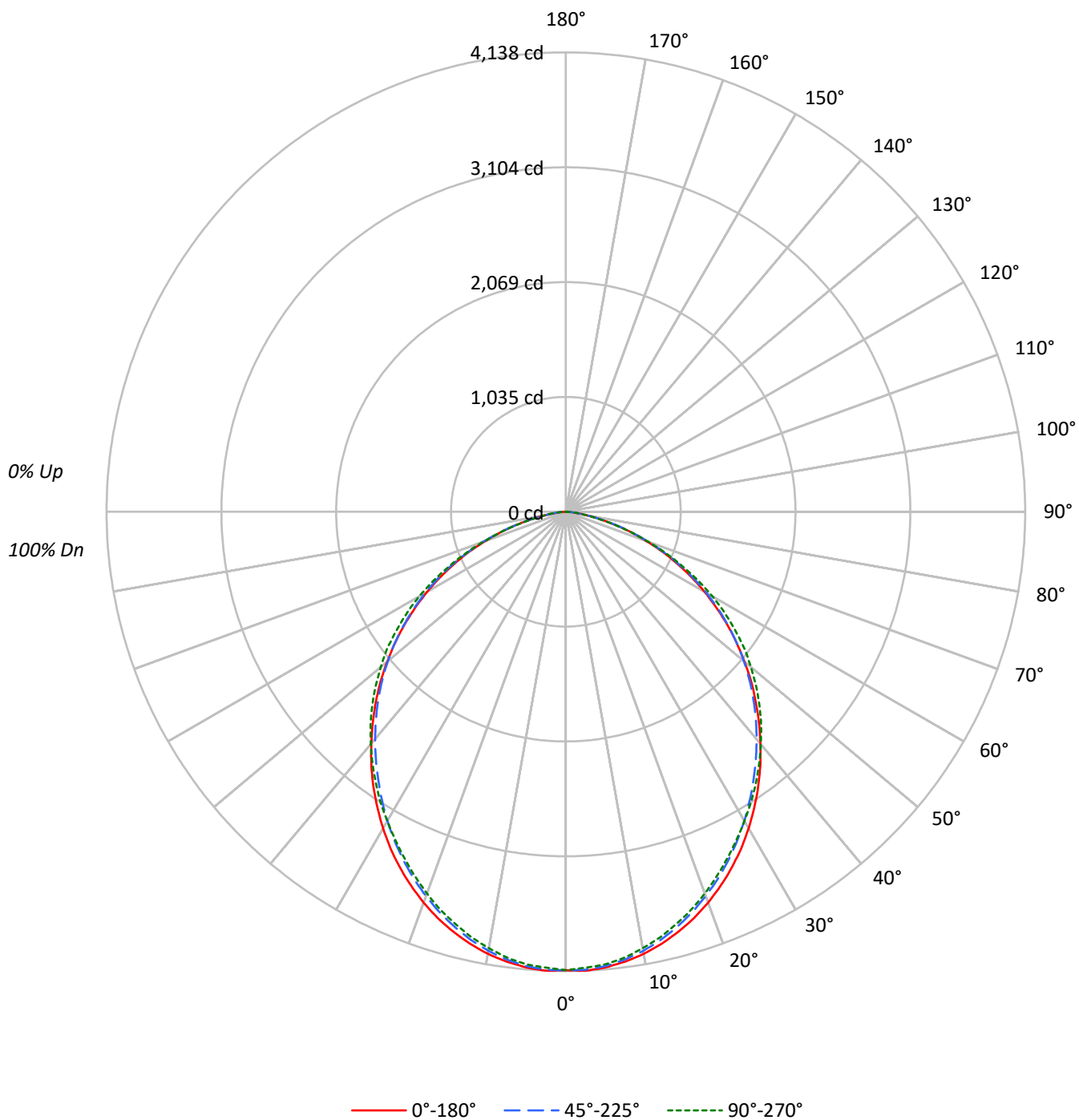
Lumens per Lamp: N/A
Luminaire Lumens: 10113.0 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 116.5
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	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	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	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5556	5556	5556
5°	5564	5547	5526
10°	5524	5487	5454
15°	5456	5392	5355
20°	5365	5275	5240
25°	5251	5141	5111
30°	5116	4994	4997
35°	4963	4840	4900
40°	4789	4695	4800
45°	4602	4545	4694
50°	4398	4382	4555
55°	4164	4184	4370
60°	3882	3936	4108
65°	3525	3597	3685
70°	3039	3115	3116
75°	2415	2477	2376
80°	1626	1650	1574
85°	823	1045	1298

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4694 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.6	3.8
10°-20°	1090.6	10.8
20°-30°	1599.0	15.8
30°-40°	1859.5	18.4
40°-50°	1861.1	18.4
50°-60°	1606.1	15.9
60°-70°	1116.1	11.0
70°-80°	503.4	5.0
80°-90°	88.7	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°	3078.2	30.4
0°-40°	4937.7	48.8
0°-60°	8404.8	83.1
0°-90°	10113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10113.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4129	4129	4129	4129	4129	
5°	4120	4103	4107	4087	4091	391
15°	3916	3891	3871	3840	3844	1104
25°	3537	3504	3463	3435	3443	1628
35°	3022	2981	2946	2959	2983	1889
45°	2419	2386	2389	2436	2467	1866
55°	1775	1752	1784	1840	1863	1585
65°	1107	1102	1130	1146	1157	1096
75°	465	465	476	463	457	500
85°	53	58	68	79	84	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4129.0	4129.0	4129.0	4129.0	4129.0
2.5°	4137.9	4122.2	4129.0	4113.5	4110.7
5°	4119.6	4103.1	4107.2	4086.6	4091.4
7.5°	4087.7	4069.6	4068.9	4046.3	4051.2
10°	4043.5	4022.0	4016.2	3989.0	3991.9
12.5°	3987.0	3963.6	3951.3	3920.7	3926.0
15°	3916.5	3891.1	3871.1	3840.4	3844.1
17.5°	3839.0	3812.6	3782.5	3750.5	3758.8
20°	3747.0	3719.2	3683.8	3650.3	3659.8
22.5°	3645.4	3614.5	3578.5	3545.9	3552.7
25°	3537.1	3503.7	3462.8	3434.9	3442.9
27.5°	3419.3	3382.3	3342.0	3318.5	3330.2
30°	3292.7	3254.5	3214.6	3200.8	3216.6
32.5°	3159.3	3121.2	3083.4	3083.1	3105.2
35°	3021.7	2981.1	2946.5	2958.8	2983.4
37.5°	2878.7	2839.0	2811.0	2835.5	2861.2
40°	2726.6	2690.9	2673.0	2705.7	2732.9
42.5°	2574.2	2540.5	2532.6	2573.9	2603.3
45°	2418.6	2385.6	2388.8	2435.5	2467.0
47.5°	2264.6	2230.6	2243.5	2295.4	2323.5
50°	2101.2	2072.8	2093.2	2147.6	2175.9
52.5°	1937.9	1911.7	1939.9	1997.4	2030.1
55°	1775.2	1752.2	1783.8	1839.7	1862.9
57.5°	1608.5	1592.5	1626.2	1674.9	1696.9
60°	1442.7	1428.6	1462.8	1506.4	1526.5
62.5°	1275.1	1264.1	1298.1	1331.6	1342.5
65°	1107.3	1101.8	1129.9	1146.5	1157.4
67.5°	943.0	937.1	962.5	975.5	977.7
70°	772.4	771.9	791.7	795.4	792.0
72.5°	616.3	613.8	628.1	623.3	616.8
75°	464.6	464.8	476.5	462.6	457.1
77.5°	326.9	332.6	333.2	320.7	316.2
80°	209.8	217.7	213.0	207.2	203.2
82.5°	117.1	122.6	121.9	133.0	137.5
85°	53.3	58.2	67.7	79.4	84.1
87.5°	18.1	22.2	28.2	30.0	28.3
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	16.88	18.47	17.25	18.78	19.09	17.24	18.82	17.60	19.14	19.45
	3H	18.34	19.76	18.72	20.09	20.45	18.65	20.08	19.03	20.40	20.76
	4H	18.76	20.10	19.16	20.44	20.82	19.03	20.37	19.43	20.71	21.09
	6H	18.96	20.20	19.37	20.56	20.95	19.20	20.43	19.61	20.80	21.19
	8H	18.99	20.16	19.41	20.55	20.95	19.22	20.40	19.65	20.79	21.19
	12H	18.98	20.11	19.41	20.49	20.92	19.24	20.37	19.67	20.75	21.18
4H	2H	17.46	18.80	17.86	19.14	19.52	17.75	19.08	18.15	19.43	19.81
	3H	19.09	20.20	19.50	20.60	21.00	19.34	20.45	19.75	20.85	21.25
	4H	19.59	20.59	20.03	21.01	21.44	19.80	20.80	20.24	21.22	21.65
	6H	19.87	20.74	20.33	21.18	21.64	20.04	20.91	20.50	21.35	21.81
	8H	19.91	20.72	20.37	21.17	21.63	20.09	20.90	20.55	21.34	21.81
	12H	19.92	20.65	20.40	21.12	21.59	20.12	20.85	20.60	21.33	21.80
8H	4H	19.77	20.58	20.23	21.03	21.49	19.96	20.78	20.43	21.22	21.69
	6H	20.10	20.77	20.60	21.26	21.74	20.25	20.92	20.75	21.41	21.89
	8H	20.17	20.77	20.68	21.27	21.76	20.33	20.92	20.84	21.43	21.92
	12H	20.20	20.73	20.71	21.22	21.78	20.39	20.92	20.90	21.41	21.98
12H	4H	19.77	20.49	20.25	20.97	21.44	19.96	20.69	20.44	21.16	21.63
	6H	20.10	20.70	20.61	21.21	21.69	20.24	20.84	20.76	21.35	21.84
	8H	20.19	20.72	20.70	21.21	21.78	20.35	20.88	20.86	21.37	21.94

END OF REPORT