

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: P1499201

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499201
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-4-120-2HI-HI-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

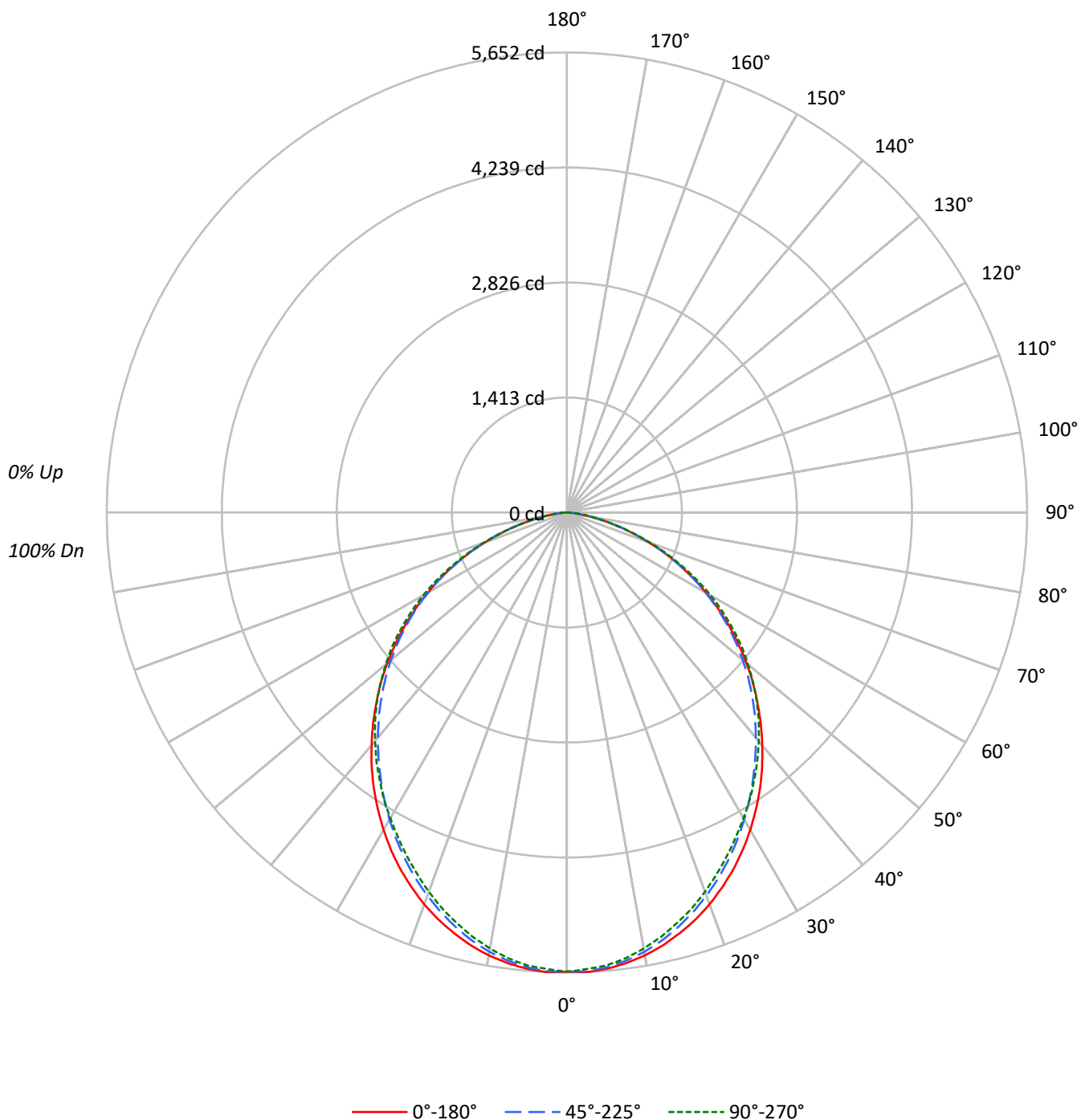
Lumens per Lamp: N/A
Luminaire Lumens: 13730.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 177.5
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°	7590	7590	7590
5°	7601	7576	7542
10°	7547	7486	7430
15°	7455	7346	7274
20°	7333	7172	7100
25°	7179	6978	6908
30°	6996	6768	6737
35°	6790	6549	6589
40°	6554	6342	6438
45°	6301	6131	6280
50°	6024	5902	6080
55°	5706	5630	5829
60°	5323	5292	5494
65°	4840	4842	4980
70°	4180	4228	4288
75°	3331	3426	3386
80°	2256	2380	2386
85°	1158	1590	2030

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6301 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.5	3.9
10°-20°	1485.6	10.8
20°-30°	2172.2	15.8
30°-40°	2519.3	18.3
40°-50°	2514.9	18.3
50°-60°	2166.4	15.8
60°-70°	1511.8	11.0
70°-80°	698.4	5.1
80°-90°	130.9	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°	4188.3	30.5
0°-40°	6707.6	48.9
0°-60°	11388.9	82.9
0°-90°	13730.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13730.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5641	5641	5641	5641	5641	
5°	5628	5607	5609	5577	5584	534
15°	5352	5315	5273	5219	5222	1508
25°	4836	4780	4701	4647	4653	2226
35°	4134	4063	3987	3985	4011	2584
45°	3311	3249	3222	3266	3300	2554
55°	2432	2384	2400	2459	2485	2172
65°	1520	1498	1521	1548	1564	1504
75°	641	634	659	654	651	689
85°	75	84	103	123	132	111
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5640.7	5640.7	5640.7	5640.7	5640.7
2.5°	5652.2	5633.8	5640.7	5616.0	5614.5
5°	5627.6	5607.1	5609.2	5576.9	5584.3
7.5°	5584.3	5560.7	5554.3	5517.7	5524.6
10°	5524.2	5495.2	5479.4	5434.5	5438.0
12.5°	5447.3	5414.4	5386.9	5335.0	5341.0
15°	5351.6	5314.6	5273.4	5219.0	5222.3
17.5°	5246.2	5206.0	5148.0	5090.3	5099.6
20°	5121.5	5077.3	5009.0	4948.9	4958.8
22.5°	4983.3	4933.2	4862.0	4802.4	4807.7
25°	4835.6	4780.3	4700.6	4646.6	4653.3
27.5°	4675.4	4613.7	4532.5	4484.2	4495.4
30°	4503.1	4438.3	4356.2	4320.4	4336.3
32.5°	4321.6	4255.3	4175.6	4156.8	4180.5
35°	4133.9	4063.2	3987.1	3984.9	4011.3
37.5°	3938.4	3869.1	3800.5	3814.5	3841.9
40°	3731.7	3666.5	3611.0	3635.7	3665.4
42.5°	3523.7	3460.9	3418.8	3455.1	3487.0
45°	3311.4	3249.1	3222.1	3266.2	3300.2
47.5°	3100.3	3037.6	3024.3	3075.0	3105.6
50°	2878.1	2822.2	2819.7	2874.5	2904.4
52.5°	2654.0	2602.1	2611.8	2670.8	2707.4
55°	2432.5	2384.4	2400.1	2458.8	2484.8
57.5°	2204.8	2166.6	2187.1	2239.5	2265.1
60°	1978.2	1943.1	1966.7	2016.7	2041.8
62.5°	1749.2	1718.6	1745.6	1787.6	1804.0
65°	1520.4	1497.5	1520.9	1547.9	1564.3
67.5°	1295.2	1273.6	1299.2	1325.2	1331.1
70°	1062.5	1048.9	1074.8	1090.2	1090.0
72.5°	848.3	835.0	859.6	865.4	861.1
75°	640.7	633.7	659.0	653.6	651.3
77.5°	452.0	455.3	468.7	464.5	463.5
80°	291.1	301.3	307.1	310.2	308.0
82.5°	163.6	173.0	181.8	203.4	211.9
85°	75.0	84.3	103.0	123.1	131.5
87.5°	25.3	32.6	43.3	46.5	44.1
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	17.97	19.55	18.33	19.87	20.18	18.19	19.78	18.56	20.09	20.40
	3H	19.43	20.86	19.81	21.18	21.55	19.66	21.08	20.04	21.41	21.77
	4H	19.86	21.20	20.26	21.54	21.92	20.07	21.41	20.47	21.76	22.14
	6H	20.07	21.30	20.48	21.67	22.06	20.28	21.52	20.69	21.88	22.28
	8H	20.09	21.27	20.52	21.66	22.06	20.33	21.51	20.75	21.90	22.30
	12H	20.09	21.22	20.52	21.60	22.03	20.35	21.48	20.78	21.86	22.29
4H	2H	18.53	19.86	18.93	20.21	20.59	18.71	20.05	19.11	20.39	20.77
	3H	20.17	21.28	20.58	21.68	22.08	20.36	21.47	20.77	21.87	22.27
	4H	20.68	21.68	21.11	22.09	22.53	20.87	21.87	21.30	22.28	22.72
	6H	20.96	21.84	21.42	22.28	22.73	21.16	22.03	21.61	22.47	22.93
	8H	21.01	21.82	21.47	22.26	22.73	21.22	22.04	21.69	22.48	22.95
	12H	21.02	21.75	21.50	22.23	22.70	21.28	22.00	21.76	22.48	22.95
8H	4H	20.87	21.68	21.33	22.12	22.59	21.04	21.85	21.50	22.30	22.76
	6H	21.21	21.88	21.70	22.37	22.85	21.39	22.06	21.88	22.55	23.02
	8H	21.28	21.88	21.79	22.39	22.88	21.49	22.09	22.00	22.60	23.08
	12H	21.31	21.85	21.82	22.34	22.90	21.58	22.11	22.09	22.60	23.16
12H	4H	20.87	21.59	21.35	22.07	22.54	21.04	21.76	21.52	22.24	22.71
	6H	21.21	21.81	21.72	22.32	22.81	21.38	21.98	21.89	22.49	22.98
	8H	21.31	21.84	21.82	22.34	22.90	21.52	22.05	22.03	22.54	23.11