

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: P1499255

Luminaire Tested: MAE-G-4-120-2HI-STD-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499255
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-STD-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

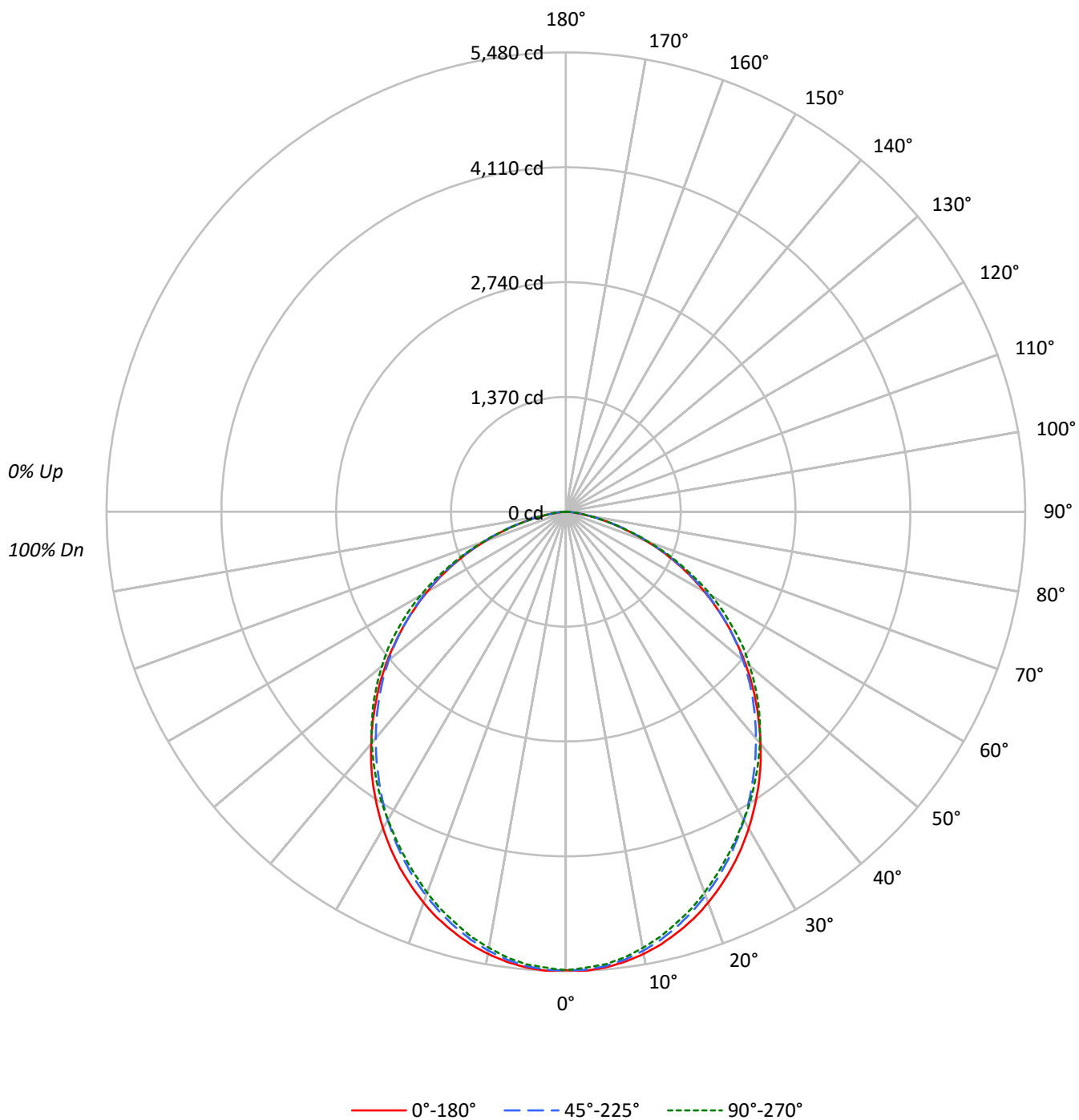
Lumens per Lamp: N/A
Luminaire Lumens: 13370.0 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 157.1
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°	7358	7358	7358
5°	7369	7347	7317
10°	7317	7265	7217
15°	7226	7136	7080
20°	7107	6976	6924
25°	6956	6796	6749
30°	6778	6599	6593
35°	6576	6392	6460
40°	6346	6198	6324
45°	6099	5998	6180
50°	5830	5779	5992
55°	5520	5518	5748
60°	5147	5189	5407
65°	4676	4744	4865
70°	4033	4117	4135
75°	3208	3293	3187
80°	2163	2221	2152
85°	1099	1430	1792

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6180 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.6	3.8
10°-20°	1443.2	10.8
20°-30°	2114.3	15.8
30°-40°	2456.9	18.4
40°-50°	2457.1	18.4
50°-60°	2119.4	15.9
60°-70°	1474.6	11.0
70°-80°	669.7	5.0
80°-90°	120.2	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°	4072.1	30.5
0°-40°	6529.0	48.8
0°-60°	11105.5	83.1
0°-90°	13370.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13370.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5469	5469	5469	5469	5469	
5°	5456	5435	5439	5411	5417	518
15°	5188	5153	5123	5079	5083	1462
25°	4686	4639	4578	4536	4546	2157
35°	4004	3946	3892	3903	3933	2502
45°	3205	3157	3152	3209	3248	2473
55°	2353	2318	2352	2421	2450	2102
65°	1469	1457	1490	1513	1528	1453
75°	617	615	633	619	613	664
85°	71	78	93	109	116	106
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5468.6	5468.6	5468.6	5468.6	5468.6
2.5°	5480.3	5460.4	5468.6	5447.1	5444.1
5°	5456.1	5434.9	5439.4	5410.9	5417.4
7.5°	5414.1	5390.4	5387.8	5356.3	5362.9
10°	5355.5	5327.2	5317.2	5279.0	5282.7
12.5°	5280.7	5249.5	5230.2	5186.9	5193.5
15°	5187.5	5153.2	5122.9	5078.7	5083.0
17.5°	5085.1	5049.0	5004.3	4957.8	4968.3
20°	4963.5	4924.9	4872.4	4823.9	4835.7
22.5°	4829.2	4785.9	4731.9	4684.6	4692.5
25°	4685.8	4638.8	4577.9	4536.3	4545.9
27.5°	4529.8	4477.7	4416.9	4381.2	4395.5
30°	4362.4	4308.2	4247.7	4224.5	4243.8
32.5°	4185.9	4131.4	4073.4	4067.8	4095.3
35°	4003.8	3945.7	3891.7	3902.6	3933.0
37.5°	3814.3	3757.5	3711.9	3738.8	3770.6
40°	3613.2	3561.2	3528.7	3566.4	3600.4
42.5°	3411.4	3362.1	3342.6	3391.7	3428.3
45°	3205.4	3156.8	3152.2	3208.6	3247.6
47.5°	3001.3	2951.6	2960.0	3022.9	3057.9
50°	2785.2	2742.7	2761.0	2827.7	2862.7
52.5°	2568.4	2529.4	2558.6	2629.0	2670.1
55°	2353.2	2318.0	2352.1	2421.3	2450.2
57.5°	2132.5	2106.7	2144.2	2204.6	2232.4
60°	1912.8	1889.7	1928.4	1983.5	2009.4
62.5°	1690.9	1671.9	1711.4	1754.8	1769.5
65°	1468.8	1457.2	1490.0	1513.3	1528.1
67.5°	1251.0	1239.2	1270.3	1289.9	1293.7
70°	1025.1	1020.8	1046.6	1054.5	1051.2
72.5°	818.0	812.0	832.4	829.5	822.1
75°	617.0	615.3	633.4	618.8	613.1
77.5°	434.5	440.8	445.1	432.3	427.7
80°	279.1	289.4	286.7	282.1	277.7
82.5°	156.2	163.8	165.8	182.3	188.9
85°	71.2	78.4	92.6	109.4	116.1
87.5°	24.1	30.0	38.7	41.3	38.9
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	17.86	19.44	18.22	19.76	20.07	18.18	19.76	18.54	20.07	20.39
	3H	19.32	20.74	19.70	21.07	21.43	19.61	21.03	19.98	21.36	21.72
	4H	19.74	21.08	20.14	21.43	21.80	19.99	21.33	20.39	21.68	22.06
	6H	19.94	21.18	20.35	21.54	21.94	20.17	21.41	20.58	21.77	22.16
	8H	19.97	21.15	20.39	21.54	21.94	20.21	21.38	20.63	21.77	22.17
	12H	19.97	21.09	20.40	21.48	21.90	20.22	21.35	20.65	21.73	22.16
4H	2H	18.43	19.77	18.83	20.12	20.49	18.69	20.02	19.09	20.37	20.75
	3H	20.06	21.18	20.47	21.57	21.97	20.30	21.41	20.71	21.81	22.21
	4H	20.57	21.57	21.00	21.98	22.42	20.77	21.77	21.21	22.19	22.63
	6H	20.85	21.72	21.31	22.16	22.62	21.03	21.90	21.48	22.34	22.79
	8H	20.89	21.70	21.35	22.15	22.61	21.08	21.89	21.54	22.33	22.80
	12H	20.90	21.63	21.38	22.11	22.58	21.12	21.84	21.60	22.32	22.79
8H	4H	20.75	21.56	21.21	22.01	22.47	20.94	21.75	21.40	22.19	22.66
	6H	21.09	21.76	21.58	22.25	22.72	21.24	21.91	21.74	22.40	22.88
	8H	21.15	21.75	21.66	22.26	22.75	21.32	21.92	21.84	22.43	22.92
	12H	21.18	21.71	21.69	22.20	22.77	21.40	21.93	21.91	22.42	22.98
12H	4H	20.75	21.48	21.23	21.95	22.42	20.93	21.66	21.42	22.14	22.61
	6H	21.08	21.68	21.59	22.19	22.68	21.24	21.84	21.75	22.34	22.83
	8H	21.18	21.71	21.69	22.20	22.76	21.35	21.88	21.86	22.37	22.94