

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: P1499738

Luminaire Tested: MAE-G-4-120-3STD-STD-35-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-3STD-STD-35-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

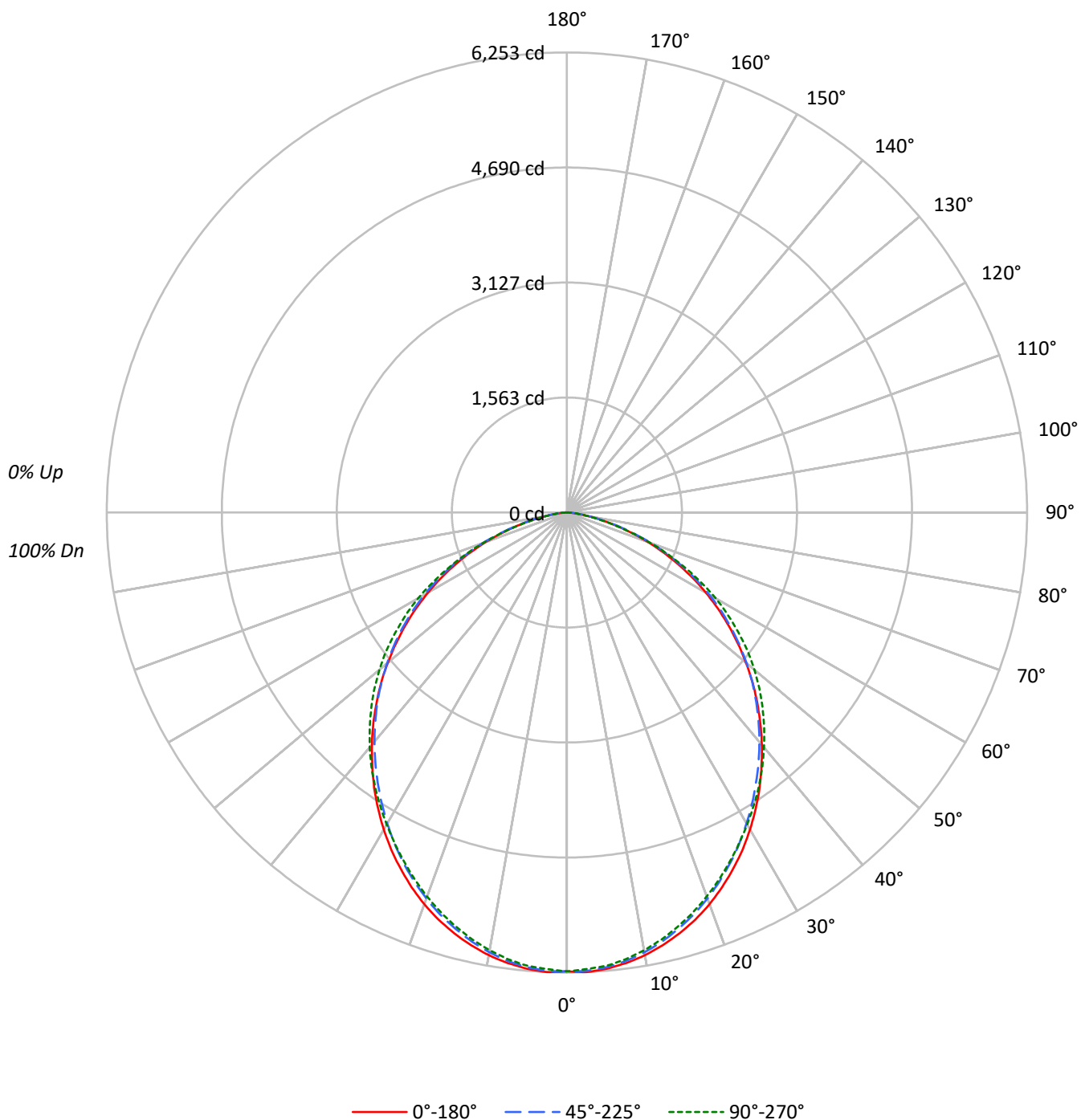
Lumens per Lamp: N/A
Luminaire Lumens: 15354.0 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 170.9
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86		
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	40		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8392	8392	8392
5°	8407	8381	8353
10°	8349	8294	8254
15°	8248	8159	8117
20°	8113	7995	7953
25°	7935	7803	7774
30°	7731	7584	7608
35°	7500	7361	7468
40°	7240	7145	7319
45°	6957	6923	7154
50°	6648	6672	6960
55°	6299	6381	6674
60°	5866	6008	6291
65°	5329	5503	5624
70°	4589	4779	4738
75°	3646	3790	3533
80°	2453	2477	2292
85°	1258	1547	1877

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7154 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.2	3.8
10°-20°	1650.4	10.7
20°-30°	2424.1	15.8
30°-40°	2822.6	18.4
40°-50°	2829.2	18.4
50°-60°	2445.2	15.9
60°-70°	1701.1	11.1
70°-80°	762.7	5.0
80°-90°	131.6	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°	4661.7	30.4
0°-40°	7484.2	48.7
0°-60°	12758.7	83.1
0°-90°	15354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15354.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6237	6237	6237	6237	6237	
5°	6225	6198	6205	6176	6185	590
15°	5921	5883	5858	5818	5827	1669
25°	5345	5298	5256	5216	5237	2461
35°	4566	4510	4482	4503	4546	2853
45°	3656	3616	3638	3712	3760	2821
55°	2685	2656	2720	2812	2845	2397
65°	1674	1670	1728	1760	1766	1654
75°	701	708	729	701	680	753
85°	82	87	100	115	122	121
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6237.2	6237.2	6237.2	6237.2	6237.2
2.5°	6252.9	6227.0	6237.2	6215.0	6210.6
5°	6224.8	6198.1	6204.9	6176.4	6184.6
7.5°	6176.5	6148.2	6147.8	6116.7	6124.4
10°	6110.9	6077.6	6070.6	6035.2	6041.2
12.5°	6023.6	5989.3	5974.0	5933.8	5943.9
15°	5921.0	5883.3	5857.5	5818.0	5827.0
17.5°	5802.1	5760.7	5729.5	5683.5	5698.4
20°	5665.8	5621.1	5584.0	5535.0	5554.7
22.5°	5513.0	5466.2	5423.4	5379.8	5399.5
25°	5344.7	5297.5	5255.7	5216.0	5236.8
27.5°	5167.7	5115.2	5073.2	5045.1	5068.0
30°	4976.3	4921.9	4881.6	4864.4	4897.1
32.5°	4774.0	4720.4	4684.9	4686.6	4724.3
35°	4566.4	4509.9	4481.7	4502.6	4546.5
37.5°	4343.1	4295.9	4277.3	4317.0	4361.7
40°	4121.9	4072.6	4067.8	4120.1	4167.2
42.5°	3893.0	3849.6	3855.5	3922.5	3966.3
45°	3656.1	3615.9	3638.2	3711.9	3759.8
47.5°	3423.3	3382.1	3416.8	3497.3	3548.9
50°	3175.8	3142.5	3187.4	3277.6	3324.9
52.5°	2929.9	2898.0	2955.4	3050.3	3095.9
55°	2685.3	2656.4	2720.2	2812.4	2845.1
57.5°	2432.0	2415.9	2481.8	2562.5	2596.7
60°	2180.0	2166.4	2232.7	2307.3	2337.9
62.5°	1927.8	1920.2	1983.3	2043.4	2053.4
65°	1673.8	1669.7	1728.5	1760.3	1766.4
67.5°	1416.9	1420.1	1473.4	1489.3	1488.3
70°	1166.6	1166.6	1214.8	1218.3	1204.3
72.5°	923.2	930.3	961.1	952.7	930.5
75°	701.3	707.7	729.1	700.8	679.7
77.5°	494.8	500.1	509.0	478.0	464.8
80°	316.6	326.3	319.7	304.8	295.8
82.5°	176.8	186.7	180.9	194.3	200.4
85°	81.5	87.4	100.2	115.4	121.6
87.5°	27.8	33.0	41.1	43.8	40.8
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	18.32	19.91	18.69	20.22	20.53	18.74	20.33	19.11	20.64	20.95
	3H	19.77	21.19	20.15	21.52	21.88	20.15	21.57	20.53	21.90	22.26
	4H	20.19	21.52	20.59	21.87	22.25	20.51	21.85	20.91	22.20	22.57
	6H	20.39	21.62	20.80	21.99	22.38	20.66	21.90	21.07	22.26	22.66
	8H	20.41	21.59	20.84	21.98	22.38	20.69	21.87	21.11	22.25	22.65
	12H	20.41	21.54	20.84	21.92	22.35	20.70	21.83	21.13	22.21	22.64
4H	2H	18.91	20.25	19.31	20.60	20.97	19.25	20.59	19.65	20.94	21.31
	3H	20.53	21.64	20.94	22.04	22.44	20.84	21.95	21.25	22.35	22.75
	4H	21.03	22.03	21.47	22.45	22.89	21.29	22.29	21.72	22.70	23.14
	6H	21.31	22.18	21.76	22.62	23.08	21.51	22.38	21.96	22.82	23.28
	8H	21.35	22.16	21.81	22.60	23.07	21.55	22.36	22.01	22.80	23.27
	12H	21.36	22.08	21.84	22.56	23.03	21.58	22.30	22.06	22.78	23.25
8H	4H	21.22	22.03	21.68	22.47	22.94	21.45	22.26	21.91	22.70	23.17
	6H	21.54	22.21	22.04	22.70	23.18	21.71	22.38	22.21	22.87	23.35
	8H	21.60	22.20	22.12	22.71	23.20	21.78	22.38	22.29	22.89	23.37
	12H	21.64	22.17	22.15	22.66	23.22	21.84	22.37	22.35	22.86	23.42
12H	4H	21.21	21.94	21.69	22.41	22.88	21.44	22.17	21.92	22.65	23.12
	6H	21.53	22.13	22.05	22.64	23.13	21.70	22.31	22.22	22.81	23.30
	8H	21.63	22.16	22.14	22.65	23.21	21.80	22.33	22.31	22.82	23.39