

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: P1499414

Luminaire Tested: MAE-G-4-120-2STD-HI-50-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499414
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-HI-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

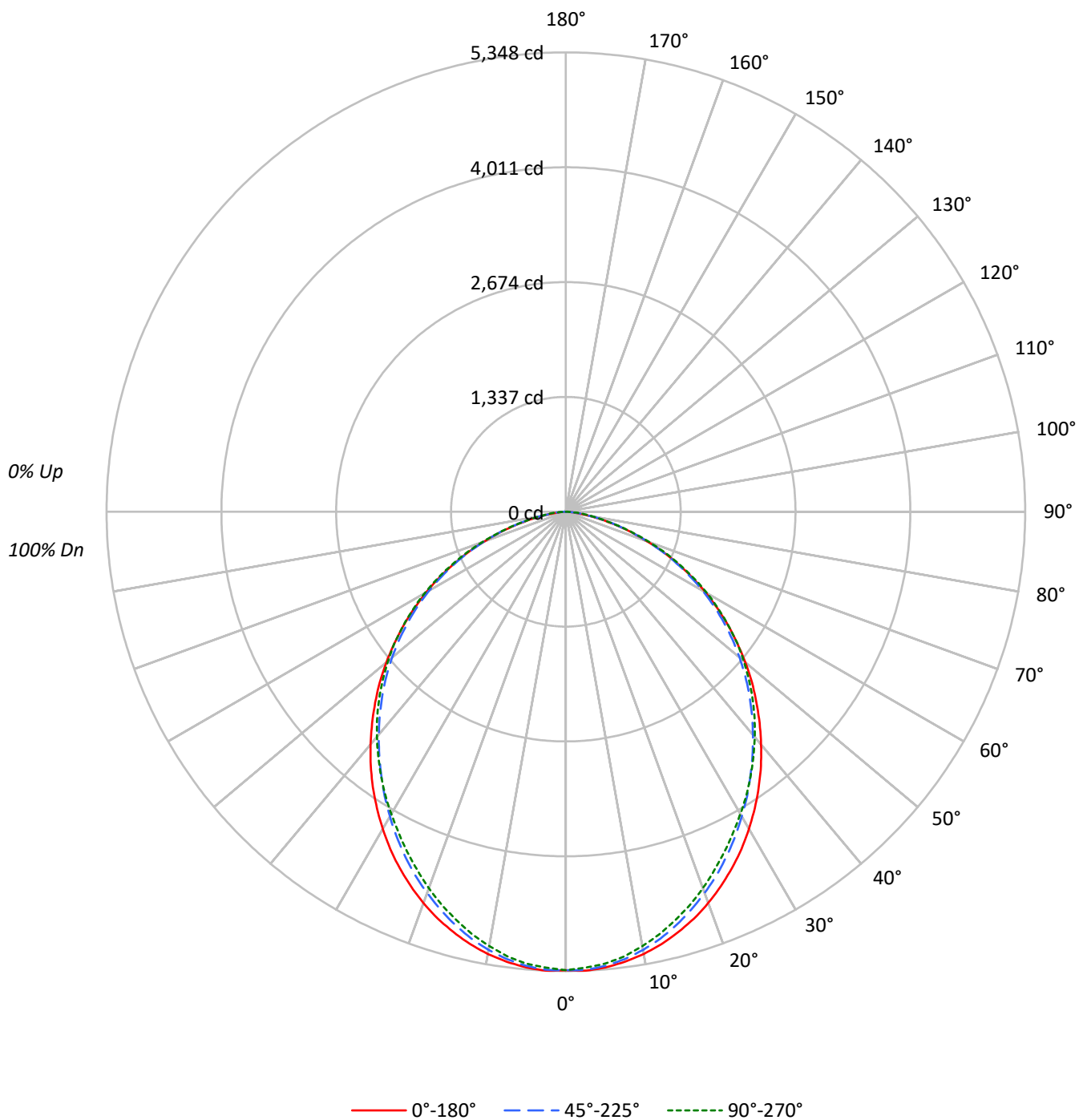
Lumens per Lamp: N/A
Luminaire Lumens: 12932.0 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 157.2
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	87	85		
2	100	92	86	80	98	90	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	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	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	41		
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7181	7181	7181
5°	7192	7167	7132
10°	7142	7077	7015
15°	7055	6936	6855
20°	6941	6763	6678
25°	6796	6572	6485
30°	6625	6366	6312
35°	6432	6153	6161
40°	6210	5952	6008
45°	5972	5747	5849
50°	5712	5526	5653
55°	5411	5267	5417
60°	5051	4948	5117
65°	4597	4532	4675
70°	3975	3982	4080
75°	3173	3271	3301
80°	2159	2339	2424
85°	1122	1618	2100

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5972 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.7	3.9
10°-20°	1402.7	10.8
20°-30°	2046.9	15.8
30°-40°	2369.2	18.3
40°-50°	2360.5	18.3
50°-60°	2030.5	15.7
60°-70°	1421.5	11.0
70°-80°	668.2	5.2
80°-90°	130.7	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°	3951.3	30.6
0°-40°	6320.6	48.9
0°-60°	10711.5	82.8
0°-90°	12932.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12932.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5337	5337	5337	5337	5337	
5°	5325	5307	5306	5273	5280	505
15°	5065	5028	4979	4919	4921	1428
25°	4578	4519	4427	4365	4368	2107
35°	3916	3838	3746	3731	3751	2447
45°	3138	3067	3020	3048	3074	2421
55°	2307	2250	2245	2288	2309	2060
65°	1444	1411	1423	1452	1468	1428
75°	610	599	629	634	635	657
85°	73	83	105	127	136	107
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5337.3	5337.3	5337.3	5337.3	5337.3
2.5°	5347.7	5332.4	5337.3	5311.6	5311.7
5°	5324.7	5306.9	5306.3	5272.8	5280.4
7.5°	5283.8	5262.3	5252.7	5214.0	5220.6
10°	5227.4	5200.1	5179.7	5131.7	5134.7
12.5°	5154.8	5123.0	5089.4	5033.3	5038.2
15°	5064.7	5028.1	4979.2	4919.1	4921.1
17.5°	4965.2	4924.2	4857.6	4793.3	4800.7
20°	4847.8	4801.8	4723.2	4656.4	4663.6
22.5°	4717.5	4664.7	4581.9	4514.9	4517.3
25°	4578.0	4518.9	4427.1	4364.8	4368.1
27.5°	4426.8	4360.9	4265.6	4208.7	4216.0
30°	4264.2	4194.3	4097.3	4051.6	4062.6
32.5°	4093.1	4020.6	3925.5	3894.8	3912.7
35°	3915.7	3838.3	3746.1	3730.8	3750.7
37.5°	3730.7	3654.4	3568.7	3568.1	3588.7
40°	3535.8	3462.6	3388.5	3398.1	3420.8
42.5°	3339.1	3268.1	3206.4	3226.4	3251.1
45°	3138.4	3067.4	3020.2	3047.8	3074.0
47.5°	2938.3	2867.5	2833.4	2867.3	2890.9
50°	2728.7	2663.8	2640.2	2678.5	2700.7
52.5°	2515.9	2455.6	2444.4	2486.9	2515.9
55°	2306.8	2249.5	2245.4	2288.5	2309.2
57.5°	2091.5	2043.9	2045.5	2085.2	2106.4
60°	1876.9	1832.7	1838.9	1879.5	1901.6
62.5°	1660.0	1620.4	1632.6	1669.5	1686.0
65°	1443.9	1411.4	1423.4	1451.9	1468.3
67.5°	1230.2	1200.7	1218.4	1248.8	1256.4
70°	1010.4	988.7	1012.3	1034.1	1037.0
72.5°	807.1	787.7	814.4	828.5	827.7
75°	610.4	598.7	629.3	633.5	634.9
77.5°	431.5	431.4	452.9	457.9	460.5
80°	278.6	287.9	301.9	312.3	312.8
82.5°	157.4	167.6	182.9	207.6	217.3
85°	72.7	83.1	104.8	126.6	136.0
87.5°	24.5	32.5	44.3	47.9	45.5
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	17.78	19.36	18.14	19.68	19.99	17.90	19.49	18.27	19.80	20.12
	3H	19.25	20.67	19.63	21.00	21.36	19.41	20.83	19.79	21.16	21.52
	4H	19.68	21.02	20.08	21.36	21.74	19.86	21.19	20.25	21.54	21.92
	6H	19.89	21.13	20.30	21.49	21.88	20.10	21.33	20.51	21.70	22.09
	8H	19.92	21.10	20.34	21.49	21.89	20.15	21.33	20.58	21.72	22.12
	12H	19.92	21.05	20.35	21.43	21.86	20.19	21.32	20.62	21.70	22.13
4H	2H	18.32	19.66	18.72	20.01	20.39	18.43	19.76	18.82	20.11	20.49
	3H	19.97	21.09	20.38	21.49	21.89	20.12	21.24	20.53	21.63	22.03
	4H	20.49	21.49	20.92	21.91	22.34	20.66	21.67	21.10	22.08	22.52
	6H	20.78	21.65	21.24	22.09	22.55	20.99	21.86	21.45	22.30	22.76
	8H	20.83	21.64	21.29	22.08	22.55	21.08	21.89	21.54	22.33	22.80
	12H	20.84	21.57	21.32	22.05	22.52	21.14	21.87	21.62	22.35	22.82
8H	4H	20.68	21.50	21.15	21.94	22.41	20.84	21.66	21.31	22.10	22.57
	6H	21.03	21.71	21.53	22.20	22.67	21.23	21.91	21.73	22.40	22.87
	8H	21.11	21.71	21.62	22.22	22.71	21.36	21.96	21.87	22.47	22.96
	12H	21.15	21.68	21.66	22.17	22.73	21.47	22.00	21.98	22.49	23.06
12H	4H	20.69	21.42	21.17	21.89	22.36	20.84	21.57	21.32	22.05	22.52
	6H	21.04	21.64	21.55	22.15	22.64	21.23	21.84	21.75	22.35	22.83
	8H	21.15	21.68	21.66	22.17	22.74	21.40	21.93	21.91	22.42	22.98