

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: P1499510

Luminaire Tested: MAE-G-4-120-3HI-HI-50-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499510
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-4-120-3HI-HI-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

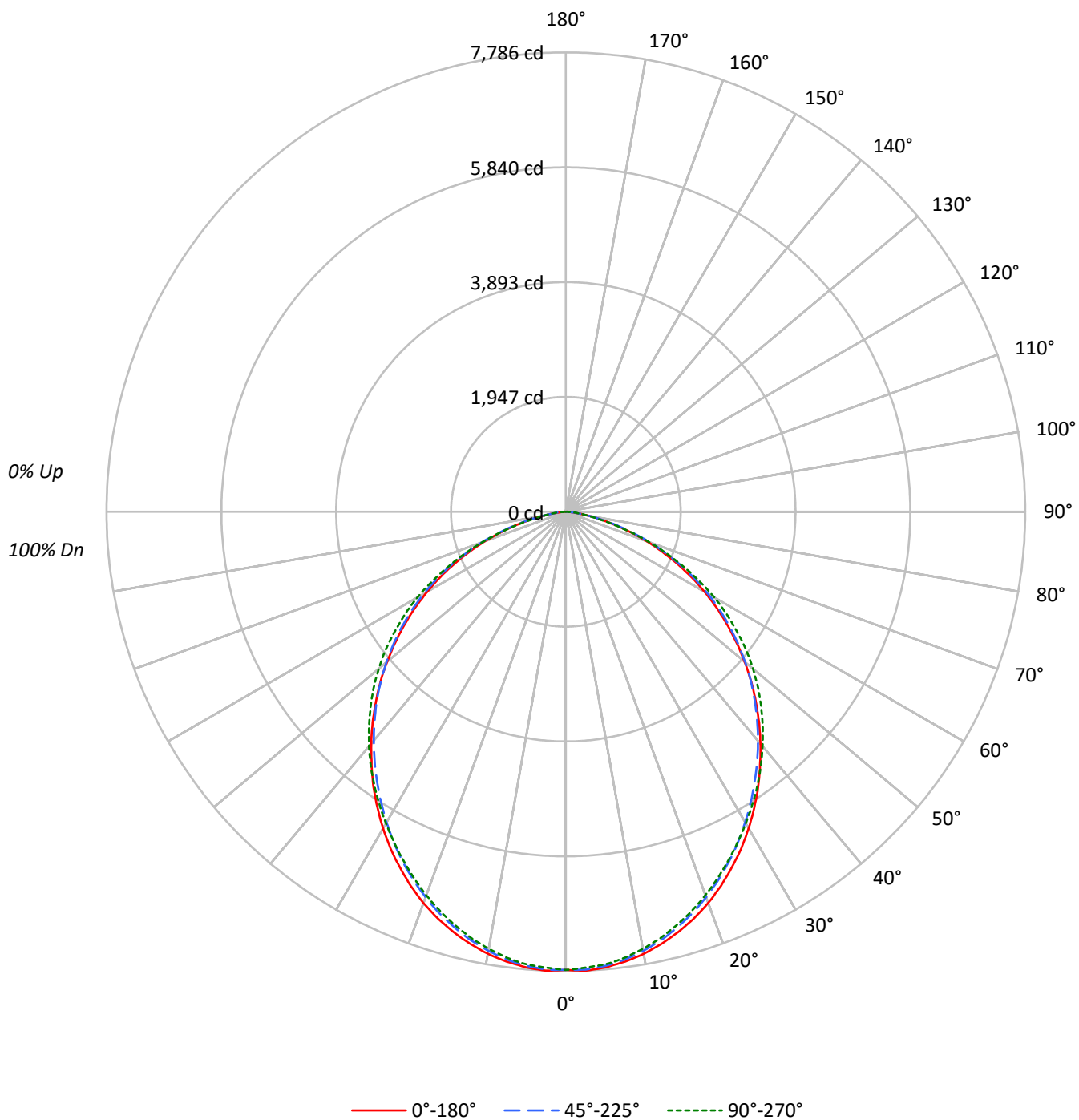
Lumens per Lamp: N/A
Luminaire Lumens: 19119.0 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 221.8
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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°	10450	10450	10450
5°	10469	10435	10401
10°	10396	10328	10278
15°	10270	10160	10107
20°	10102	9956	9904
25°	9880	9716	9681
30°	9627	9444	9474
35°	9340	9167	9299
40°	9015	8897	9114
45°	8663	8620	8908
50°	8278	8308	8666
55°	7844	7946	8311
60°	7305	7481	7834
65°	6635	6852	7003
70°	5714	5950	5899
75°	4540	4720	4400
80°	3054	3084	2854
85°	1568	1925	2336

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8908 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	731.2	3.8
10°-20°	2055.1	10.7
20°-30°	3018.5	15.8
30°-40°	3514.7	18.4
40°-50°	3523.0	18.4
50°-60°	3044.8	15.9
60°-70°	2118.2	11.1
70°-80°	949.7	5.0
80°-90°	163.9	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°	5804.8	30.4
0°-40°	9319.4	48.7
0°-60°	15887.2	83.1
0°-90°	19119.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19119.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7767	7767	7767	7767	7767	
5°	7751	7718	7726	7691	7701	735
15°	7373	7326	7294	7245	7256	2078
25°	6655	6596	6544	6495	6521	3064
35°	5686	5616	5581	5607	5661	3552
45°	4553	4503	4530	4622	4682	3513
55°	3344	3308	3387	3502	3543	2985
65°	2084	2079	2152	2192	2200	2060
75°	873	881	908	873	846	938
85°	102	109	125	144	151	150
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7766.7	7766.7	7766.7	7766.7	7766.7
2.5°	7786.2	7753.9	7766.7	7739.0	7733.4
5°	7751.2	7718.0	7726.4	7690.8	7701.2
7.5°	7691.0	7655.7	7655.4	7616.7	7626.2
10°	7609.3	7568.0	7559.1	7515.2	7522.5
12.5°	7500.6	7458.0	7439.0	7388.8	7401.4
15°	7372.9	7326.0	7293.7	7244.6	7255.9
17.5°	7225.0	7173.3	7134.4	7077.2	7095.8
20°	7055.1	6999.6	6953.1	6892.2	6916.8
22.5°	6864.8	6806.5	6753.3	6699.0	6723.6
25°	6655.3	6596.5	6544.5	6495.0	6520.9
27.5°	6434.9	6369.5	6317.2	6282.2	6310.8
30°	6196.4	6128.9	6078.5	6057.2	6097.9
32.5°	5944.7	5878.0	5833.7	5835.7	5882.7
35°	5686.1	5615.8	5580.7	5606.7	5661.4
37.5°	5408.1	5349.2	5326.1	5375.6	5431.2
40°	5132.6	5071.2	5065.3	5130.4	5188.9
42.5°	4847.6	4793.6	4800.9	4884.3	4938.9
45°	4552.6	4502.6	4530.3	4622.0	4681.6
47.5°	4262.8	4211.4	4254.7	4355.0	4419.2
50°	3954.6	3913.1	3969.1	4081.2	4140.2
52.5°	3648.4	3608.6	3680.0	3798.3	3855.1
55°	3343.7	3307.8	3387.2	3502.0	3542.8
57.5°	3028.4	3008.4	3090.2	3190.8	3233.4
60°	2714.6	2697.6	2780.2	2873.1	2911.1
62.5°	2400.5	2391.1	2469.5	2544.3	2556.9
65°	2084.2	2079.1	2152.3	2192.0	2199.6
67.5°	1764.4	1768.4	1834.7	1854.5	1853.2
70°	1452.6	1452.6	1512.6	1517.0	1499.6
72.5°	1149.6	1158.4	1196.7	1186.3	1158.7
75°	873.3	881.2	907.9	872.7	846.4
77.5°	616.1	622.7	633.9	595.2	578.7
80°	394.1	406.3	398.0	379.6	368.4
82.5°	220.1	232.5	225.3	242.0	249.6
85°	101.6	108.8	124.7	143.6	151.3
87.5°	34.5	41.2	51.2	54.6	50.8
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	19.08	20.67	19.45	20.98	21.30	19.50	21.09	19.87	21.40	21.72
	3H	20.53	21.96	20.91	22.28	22.64	20.91	22.33	21.29	22.66	23.02
	4H	20.95	22.29	21.35	22.63	23.01	21.27	22.61	21.67	22.96	23.34
	6H	21.15	22.39	21.56	22.75	23.14	21.42	22.66	21.84	23.03	23.42
	8H	21.17	22.35	21.60	22.74	23.14	21.45	22.63	21.87	23.02	23.42
	12H	21.17	22.30	21.60	22.68	23.11	21.46	22.59	21.89	22.97	23.40
4H	2H	19.67	21.01	20.07	21.36	21.74	20.01	21.35	20.41	21.70	22.07
	3H	21.29	22.40	21.70	22.80	23.20	21.60	22.71	22.01	23.11	23.51
	4H	21.80	22.80	22.23	23.21	23.65	22.05	23.05	22.48	23.46	23.90
	6H	22.07	22.94	22.53	23.38	23.84	22.27	23.14	22.72	23.58	24.04
	8H	22.11	22.92	22.57	23.36	23.83	22.31	23.12	22.77	23.56	24.03
	12H	22.12	22.85	22.60	23.32	23.79	22.34	23.06	22.82	23.54	24.01
8H	4H	21.98	22.79	22.44	23.23	23.70	22.21	23.02	22.67	23.46	23.93
	6H	22.30	22.97	22.80	23.46	23.94	22.47	23.14	22.97	23.63	24.11
	8H	22.37	22.97	22.88	23.47	23.96	22.54	23.14	23.05	23.65	24.14
	12H	22.40	22.93	22.91	23.42	23.98	22.60	23.13	23.11	23.62	24.18
12H	4H	21.97	22.70	22.45	23.18	23.65	22.21	22.93	22.69	23.41	23.88
	6H	22.30	22.90	22.81	23.40	23.89	22.47	23.07	22.98	23.58	24.06
	8H	22.39	22.92	22.90	23.41	23.98	22.57	23.09	23.07	23.59	24.15