

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: P1499498

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499498
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-35-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

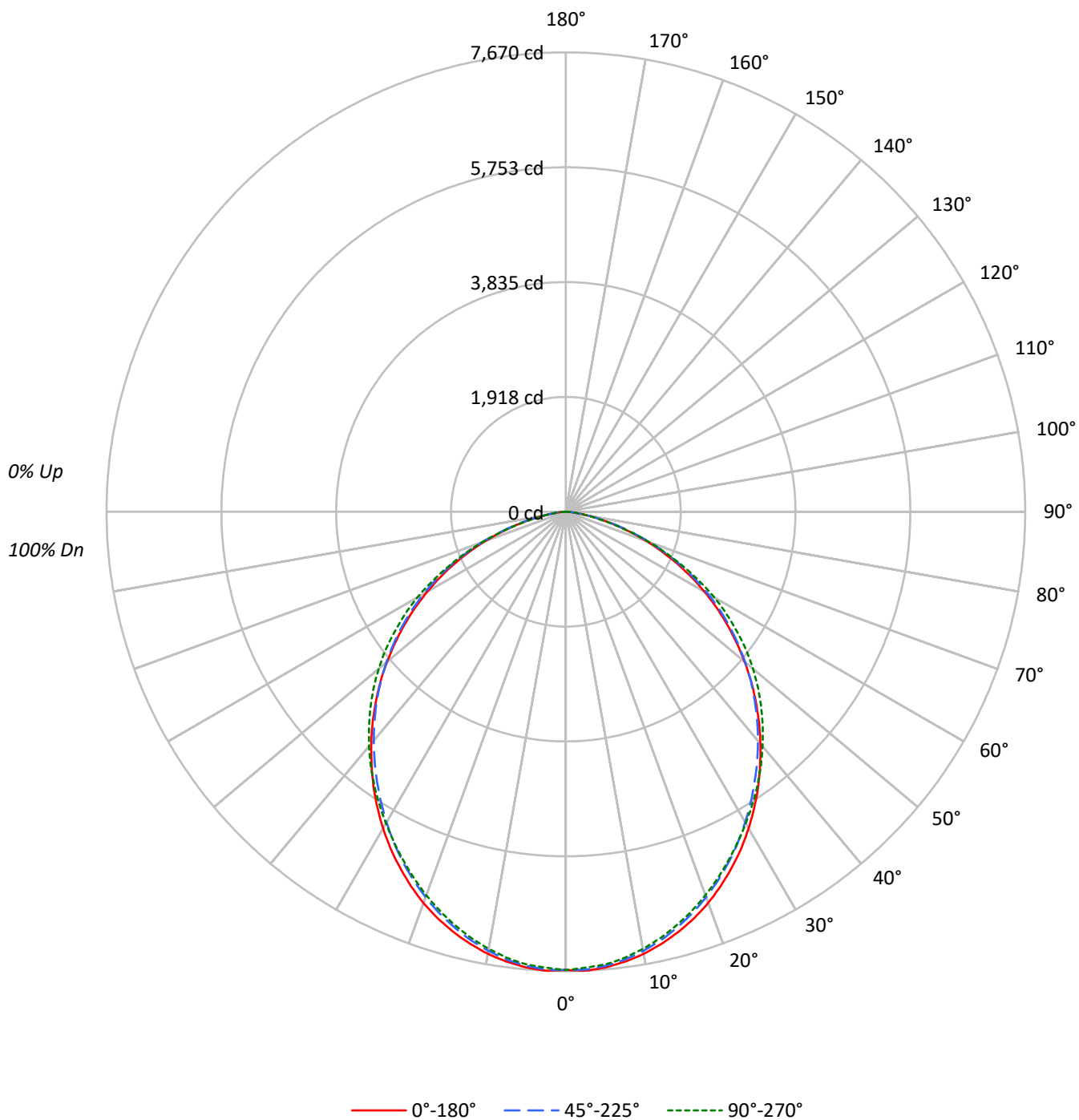
Lumens per Lamp: N/A
Luminaire Lumens: 18834.0 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
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°	10294	10294	10294
5°	10313	10280	10246
10°	10241	10174	10124
15°	10117	10009	9957
20°	9951	9807	9756
25°	9733	9571	9537
30°	9484	9303	9333
35°	9200	9030	9160
40°	8880	8764	8978
45°	8534	8492	8776
50°	8154	8184	8537
55°	7727	7827	8187
60°	7196	7370	7717
65°	6536	6750	6898
70°	5629	5862	5812
75°	4472	4649	4335
80°	3009	3039	2812
85°	1545	1897	2302

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8776 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	720.3	3.8
10°-20°	2024.4	10.7
20°-30°	2973.5	15.8
30°-40°	3462.3	18.4
40°-50°	3470.4	18.4
50°-60°	2999.4	15.9
60°-70°	2086.6	11.1
70°-80°	935.5	5.0
80°-90°	161.4	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°	5718.2	30.4
0°-40°	9180.5	48.7
0°-60°	15650.4	83.1
0°-90°	18834.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18834.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7651	7651	7651	7651	7651	
5°	7636	7603	7611	7576	7586	724
15°	7263	7217	7185	7137	7148	2047
25°	6556	6498	6447	6398	6424	3019
35°	5601	5532	5498	5523	5577	3500
45°	4485	4436	4463	4553	4612	3460
55°	3294	3258	3337	3450	3490	2940
65°	2053	2048	2120	2159	2167	2029
75°	860	868	894	860	834	924
85°	100	107	123	142	149	148
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7651.0	7651.0	7651.0	7651.0	7651.0
2.5°	7670.1	7638.3	7651.0	7623.7	7618.1
5°	7635.7	7602.9	7611.3	7576.2	7586.4
7.5°	7576.4	7541.6	7541.2	7503.1	7512.5
10°	7495.8	7455.2	7446.5	7403.1	7410.4
12.5°	7388.9	7346.8	7328.0	7278.7	7291.0
15°	7263.0	7216.8	7185.1	7136.6	7147.8
17.5°	7117.2	7066.3	7028.1	6971.7	6990.0
20°	6949.9	6895.2	6849.5	6789.5	6813.7
22.5°	6762.4	6705.1	6652.7	6599.1	6623.4
25°	6556.0	6498.2	6446.9	6398.2	6423.7
27.5°	6339.0	6274.4	6223.0	6188.6	6216.6
30°	6104.1	6037.5	5988.0	5967.0	6007.1
32.5°	5856.0	5790.3	5746.7	5748.8	5795.0
35°	5601.3	5532.1	5497.6	5523.1	5577.0
37.5°	5327.5	5269.5	5246.7	5295.4	5350.3
40°	5056.0	4995.6	4989.8	5053.9	5111.6
42.5°	4775.3	4722.1	4729.4	4811.5	4865.2
45°	4484.7	4435.5	4462.8	4553.2	4611.9
47.5°	4199.3	4148.7	4191.2	4290.0	4353.3
50°	3895.5	3854.6	3909.9	4020.4	4078.4
52.5°	3594.0	3554.8	3625.2	3741.7	3797.6
55°	3293.9	3258.5	3336.8	3449.8	3490.0
57.5°	2983.3	2963.5	3044.2	3143.2	3185.2
60°	2674.2	2657.4	2738.8	2830.3	2867.7
62.5°	2364.7	2355.4	2432.7	2506.5	2518.8
65°	2053.1	2048.1	2120.3	2159.3	2166.8
67.5°	1738.1	1742.0	1807.3	1826.8	1825.5
70°	1430.9	1430.9	1490.1	1494.4	1477.3
72.5°	1132.5	1141.2	1178.9	1168.7	1141.5
75°	860.2	868.1	894.3	859.7	833.8
77.5°	607.0	613.4	624.4	586.4	570.1
80°	388.3	400.2	392.2	373.9	362.9
82.5°	216.9	229.0	221.9	238.4	245.9
85°	100.1	107.2	122.9	141.5	149.1
87.5°	34.0	40.5	50.3	53.8	50.0
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	19.03	20.62	19.40	20.93	21.24	19.45	21.04	19.82	21.35	21.66
	3H	20.48	21.90	20.86	22.23	22.59	20.86	22.28	21.24	22.61	22.97
	4H	20.90	22.23	21.30	22.58	22.96	21.22	22.56	21.62	22.91	23.28
	6H	21.10	22.33	21.51	22.70	23.09	21.37	22.61	21.78	22.97	23.37
	8H	21.12	22.30	21.55	22.69	23.09	21.40	22.57	21.82	22.96	23.36
	12H	21.12	22.25	21.55	22.63	23.06	21.41	22.54	21.84	22.92	23.35
4H	2H	19.62	20.96	20.02	21.31	21.68	19.96	21.30	20.36	21.65	22.02
	3H	21.24	22.35	21.65	22.75	23.15	21.55	22.66	21.96	23.06	23.46
	4H	21.74	22.74	22.18	23.16	23.60	22.00	23.00	22.43	23.41	23.85
	6H	22.02	22.89	22.47	23.33	23.79	22.22	23.09	22.67	23.53	23.99
	8H	22.06	22.87	22.52	23.31	23.78	22.26	23.07	22.72	23.51	23.98
	12H	22.07	22.79	22.55	23.27	23.74	22.29	23.01	22.77	23.49	23.96
8H	4H	21.93	22.74	22.39	23.18	23.65	22.16	22.97	22.62	23.41	23.88
	6H	22.25	22.92	22.75	23.41	23.89	22.42	23.09	22.92	23.58	24.06
	8H	22.31	22.91	22.83	23.42	23.91	22.49	23.09	23.00	23.60	24.08
	12H	22.35	22.88	22.86	23.37	23.93	22.55	23.08	23.06	23.57	24.13
12H	4H	21.92	22.65	22.40	23.12	23.59	22.15	22.88	22.63	23.36	23.83
	6H	22.24	22.84	22.76	23.35	23.84	22.41	23.02	22.93	23.52	24.01
	8H	22.34	22.87	22.85	23.36	23.92	22.51	23.04	23.02	23.53	24.10