

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: P1499627

Luminaire Tested: MAE-G-4-120-3LO-LO-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499627
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-4-120-3LO-LO-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

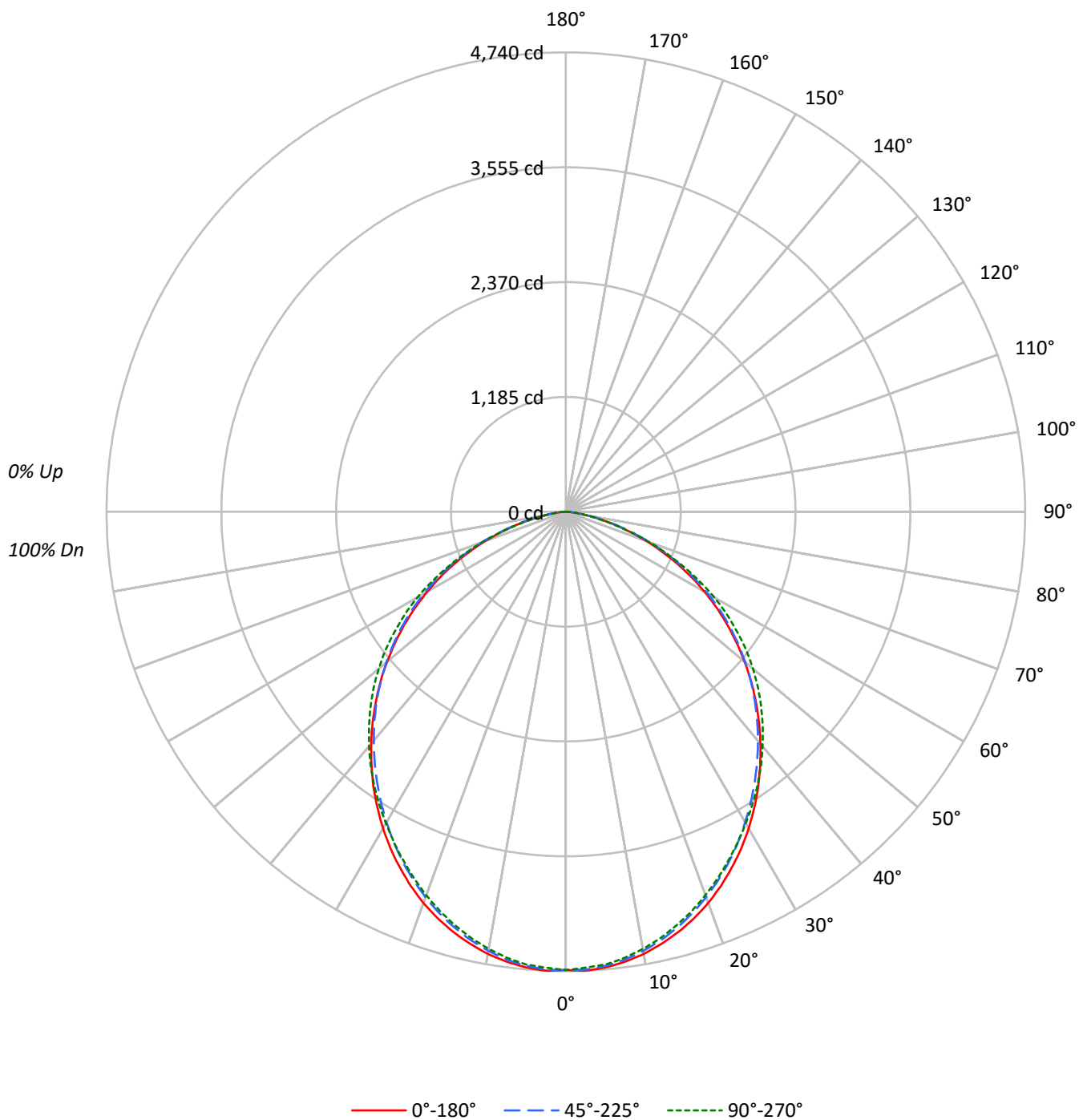
Lumens per Lamp: N/A
Luminaire Lumens: 11640.0 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 120.2
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	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°	6362	6362	6362
5°	6374	6353	6333
10°	6329	6288	6257
15°	6253	6186	6154
20°	6150	6061	6029
25°	6015	5915	5894
30°	5861	5750	5768
35°	5686	5581	5662
40°	5488	5416	5549
45°	5274	5248	5424
50°	5040	5058	5276
55°	4776	4837	5060
60°	4447	4555	4769
65°	4040	4172	4263
70°	3479	3623	3592
75°	2764	2874	2679
80°	1860	1878	1737
85°	954	1172	1422

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5424 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.2	3.8
10°-20°	1251.2	10.7
20°-30°	1837.7	15.8
30°-40°	2139.8	18.4
40°-50°	2144.8	18.4
50°-60°	1853.8	15.9
60°-70°	1289.6	11.1
70°-80°	578.2	5.0
80°-90°	99.7	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°	3534.0	30.4
0°-40°	5673.9	48.7
0°-60°	9672.5	83.1
0°-90°	11640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11640.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4729	4729	4729	4729	4729	
5°	4719	4699	4704	4682	4689	448
15°	4489	4460	4441	4411	4418	1265
25°	4052	4016	3984	3954	3970	1866
35°	3462	3419	3398	3414	3447	2163
45°	2772	2741	2758	2814	2850	2139
55°	2036	2014	2062	2132	2157	1817
65°	1269	1266	1310	1334	1339	1254
75°	532	536	553	531	515	571
85°	62	66	76	87	92	92
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4728.6	4728.6	4728.6	4728.6	4728.6
2.5°	4740.3	4720.7	4728.6	4711.7	4708.2
5°	4719.0	4698.8	4704.0	4682.3	4688.6
7.5°	4682.4	4660.9	4660.7	4637.1	4642.9
10°	4632.6	4607.5	4602.1	4575.4	4579.9
12.5°	4566.6	4540.6	4529.0	4498.5	4506.1
15°	4488.7	4460.2	4440.6	4410.7	4417.6
17.5°	4398.7	4367.2	4343.6	4308.8	4320.0
20°	4295.3	4261.4	4233.2	4196.1	4211.0
22.5°	4179.4	4143.9	4111.5	4078.5	4093.5
25°	4051.9	4016.0	3984.4	3954.3	3970.0
27.5°	3917.7	3877.8	3846.0	3824.8	3842.1
30°	3772.5	3731.4	3700.7	3687.8	3712.6
32.5°	3619.3	3578.5	3551.7	3552.9	3581.5
35°	3461.8	3419.0	3397.7	3413.5	3446.8
37.5°	3292.6	3256.7	3242.6	3272.8	3306.6
40°	3124.8	3087.5	3083.8	3123.5	3159.1
42.5°	2951.3	2918.5	2922.9	2973.6	3006.8
45°	2771.7	2741.3	2758.1	2814.0	2850.3
47.5°	2595.2	2563.9	2590.3	2651.4	2690.5
50°	2407.6	2382.4	2416.4	2484.7	2520.6
52.5°	2221.2	2197.0	2240.5	2312.5	2347.1
55°	2035.8	2013.9	2062.2	2132.0	2156.9
57.5°	1843.8	1831.5	1881.5	1942.6	1968.6
60°	1652.7	1642.3	1692.7	1749.2	1772.3
62.5°	1461.4	1455.7	1503.5	1549.0	1556.7
65°	1268.9	1265.8	1310.3	1334.5	1339.1
67.5°	1074.2	1076.6	1117.0	1129.1	1128.3
70°	884.4	884.4	920.9	923.6	913.0
72.5°	699.9	705.2	728.6	722.3	705.4
75°	531.6	536.5	552.8	531.3	515.3
77.5°	375.1	379.1	385.9	362.4	352.3
80°	240.0	247.4	242.4	231.1	224.2
82.5°	134.0	141.5	137.1	147.3	151.9
85°	61.8	66.2	75.9	87.4	92.1
87.5°	21.0	25.0	31.1	33.2	30.9
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	17.36	18.94	17.72	19.26	19.57	17.78	19.36	18.14	19.68	19.99
	3H	18.81	20.23	19.18	20.56	20.92	19.19	20.61	19.56	20.94	21.30
	4H	19.22	20.56	19.62	20.91	21.29	19.55	20.89	19.95	21.23	21.61
	6H	19.42	20.66	19.84	21.03	21.42	19.70	20.94	20.11	21.30	21.69
	8H	19.45	20.63	19.87	21.02	21.42	19.72	20.90	20.15	21.29	21.69
	12H	19.45	20.57	19.88	20.96	21.39	19.74	20.86	20.17	21.24	21.67
4H	2H	17.95	19.29	18.35	19.63	20.01	18.29	19.63	18.69	19.97	20.35
	3H	19.57	20.68	19.98	21.08	21.48	19.88	20.99	20.29	21.39	21.79
	4H	20.07	21.07	20.50	21.49	21.92	20.33	21.33	20.76	21.74	22.18
	6H	20.35	21.22	20.80	21.66	22.11	20.54	21.41	21.00	21.86	22.31
	8H	20.38	21.20	20.85	21.64	22.11	20.59	21.40	21.05	21.84	22.31
	12H	20.40	21.12	20.88	21.60	22.07	20.61	21.34	21.10	21.82	22.29
8H	4H	20.25	21.07	20.72	21.51	21.98	20.49	21.30	20.95	21.74	22.21
	6H	20.58	21.25	21.07	21.74	22.22	20.75	21.42	21.25	21.91	22.39
	8H	20.64	21.24	21.15	21.75	22.24	20.82	21.42	21.33	21.92	22.41
	12H	20.67	21.20	21.18	21.69	22.26	20.88	21.40	21.38	21.90	22.46
12H	4H	20.25	20.98	20.73	21.45	21.92	20.48	21.21	20.96	21.68	22.15
	6H	20.57	21.17	21.08	21.68	22.17	20.74	21.34	21.25	21.85	22.34
	8H	20.67	21.20	21.18	21.69	22.25	20.84	21.37	21.35	21.86	22.43