

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: P1499480

Luminaire Tested: MAE-G-4-120-3HI-40-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499480
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-40-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

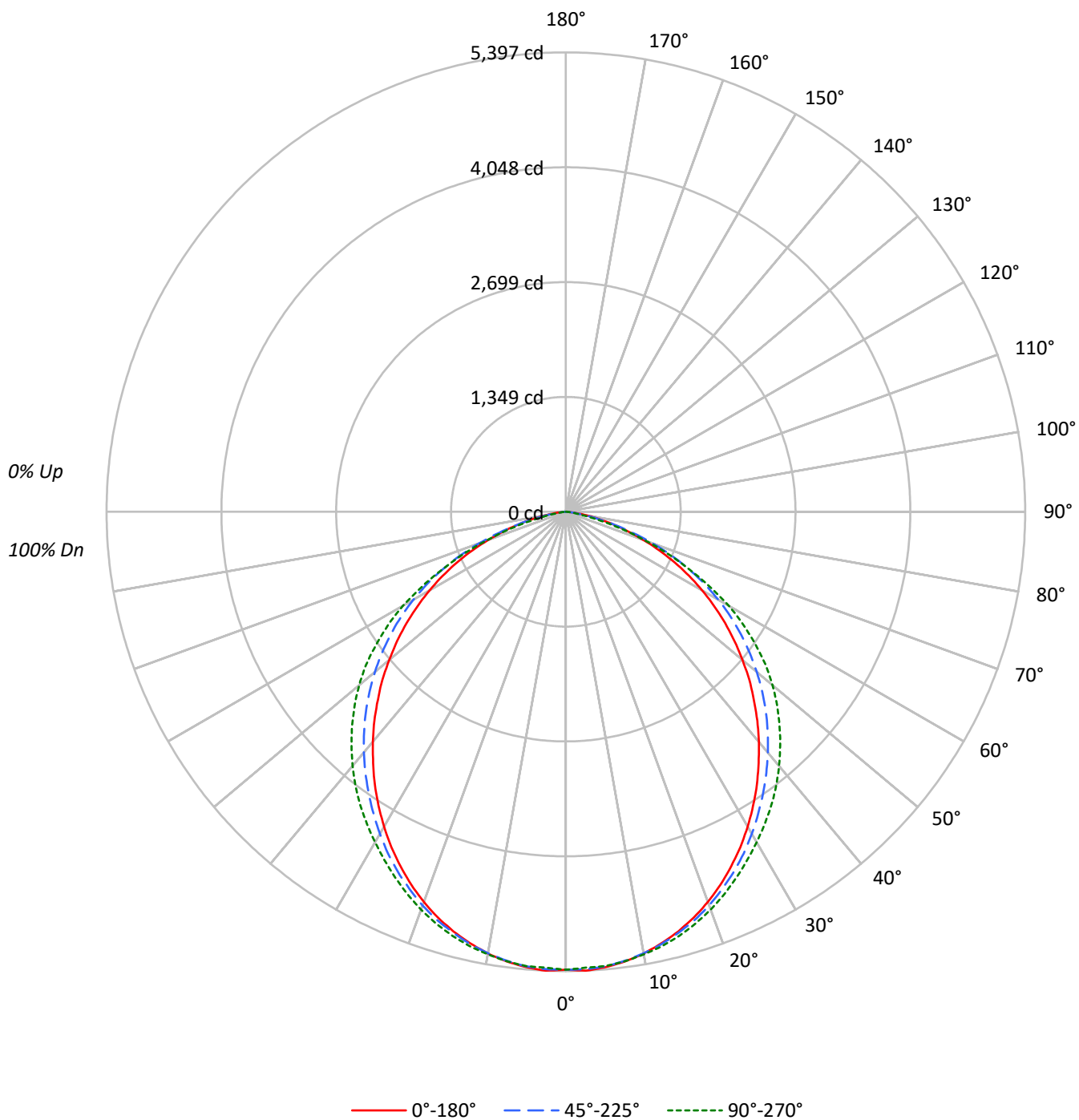
Lumens per Lamp: N/A
Luminaire Lumens: 13635.0 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132.9
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	102	98	107	103	100	96	99	96	93		95	93	91		92
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
5	78	65	56	50	76	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53
7	67	53	45	39	65	53	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	36	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7238	7238	7238
5°	7254	7239	7236
10°	7201	7197	7214
15°	7109	7132	7183
20°	6985	7049	7122
25°	6823	6932	7041
30°	6638	6789	6967
35°	6430	6634	6914
40°	6196	6484	6845
45°	5943	6324	6757
50°	5668	6129	6637
55°	5363	5891	6381
60°	4978	5566	5955
65°	4494	5077	5100
70°	3836	4262	3964
75°	3013	3110	2438
80°	1967	1600	944
85°	942	633	500

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6757 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.2	3.7
10°-20°	1442.7	10.6
20°-30°	2145.7	15.7
30°-40°	2528.4	18.5
40°-50°	2563.6	18.8
50°-60°	2233.9	16.4
60°-70°	1527.7	11.2
70°-80°	613.7	4.5
80°-90°	71.2	0.5
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°	4096.6	30.0
0°-40°	6625.0	48.6
0°-60°	11422.4	83.8
0°-90°	13635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13635.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5380	5380	5380	5380	5380	
5°	5371	5338	5360	5354	5357	509
15°	5103	5081	5120	5141	5157	1438
25°	4596	4597	4669	4703	4743	2116
35°	3914	3932	4039	4138	4209	2445
45°	3123	3166	3324	3473	3551	2411
55°	2286	2335	2511	2669	2720	2041
65°	1412	1475	1595	1607	1602	1396
75°	580	618	598	514	469	623
85°	61	55	41	36	32	94
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5379.7	5379.7	5379.7	5379.7	5379.7
2.5°	5397.1	5361.0	5379.7	5375.9	5362.1
5°	5370.9	5338.5	5359.7	5353.6	5357.2
7.5°	5328.6	5298.9	5321.2	5320.1	5326.1
10°	5270.3	5240.3	5267.8	5272.8	5280.2
12.5°	5193.1	5168.3	5201.9	5211.8	5226.6
15°	5103.4	5081.2	5119.7	5140.8	5157.0
17.5°	4999.0	4980.3	5030.0	5050.1	5072.4
20°	4878.3	4864.8	4923.1	4941.8	4974.2
22.5°	4744.1	4736.7	4797.4	4826.0	4863.4
25°	4595.9	4597.3	4669.3	4703.1	4742.7
27.5°	4440.6	4443.1	4525.3	4572.3	4614.6
30°	4272.6	4280.0	4369.7	4428.2	4484.0
32.5°	4094.7	4109.6	4206.6	4286.4	4348.5
35°	3914.4	3931.7	4038.9	4138.2	4209.1
37.5°	3719.2	3747.8	3868.5	3986.7	4059.8
40°	3527.6	3556.2	3691.7	3822.3	3897.1
42.5°	3329.9	3365.9	3510.2	3655.7	3727.7
45°	3123.4	3165.5	3323.6	3472.9	3551.2
47.5°	2925.5	2962.9	3129.5	3285.1	3365.9
50°	2707.7	2755.0	2928.0	3091.0	3170.7
52.5°	2500.2	2543.6	2721.5	2888.4	2960.4
55°	2286.3	2334.7	2511.4	2669.2	2720.4
57.5°	2067.2	2125.7	2296.2	2428.1	2476.5
60°	1849.7	1908.0	2068.5	2176.9	2212.9
62.5°	1633.1	1695.5	1835.9	1908.0	1908.0
65°	1411.7	1475.2	1594.6	1606.9	1602.0
67.5°	1190.4	1253.9	1344.7	1322.1	1307.3
70°	975.2	1029.9	1083.5	1042.2	1007.6
72.5°	766.2	818.5	827.2	767.6	723.9
75°	579.5	618.3	598.2	513.8	469.0
77.5°	404.1	426.7	384.3	298.6	262.6
80°	253.8	263.7	206.5	145.4	121.8
82.5°	136.9	138.0	89.6	73.4	68.5
85°	61.0	54.7	41.0	36.0	32.4
87.5°	21.2	18.7	14.8	13.7	11.3
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	17.80	19.39	18.17	19.70	20.02	18.79	20.37	19.15	20.68	21.00
	3H	19.21	20.63	19.59	20.96	21.32	19.99	21.41	20.37	21.74	22.10
	4H	19.61	20.94	20.01	21.29	21.67	20.21	21.54	20.61	21.89	22.27
	6H	19.78	21.01	20.19	21.38	21.77	20.22	21.46	20.64	21.82	22.21
	8H	19.80	20.97	20.22	21.36	21.76	20.20	21.38	20.63	21.76	22.16
	12H	19.79	20.91	20.22	21.29	21.72	20.18	21.30	20.61	21.68	22.11
4H	2H	18.47	19.81	18.87	20.16	20.53	19.26	20.60	19.66	20.95	21.32
	3H	20.04	21.15	20.45	21.55	21.95	20.63	21.74	21.04	22.14	22.54
	4H	20.52	21.51	20.95	21.93	22.36	20.91	21.90	21.34	22.31	22.75
	6H	20.76	21.62	21.21	22.06	22.52	20.96	21.82	21.41	22.26	22.72
	8H	20.78	21.59	21.24	22.03	22.50	20.93	21.74	21.40	22.18	22.65
	12H	20.78	21.50	21.26	21.98	22.45	20.91	21.63	21.39	22.11	22.58
8H	4H	20.66	21.47	21.13	21.91	22.38	21.02	21.83	21.49	22.27	22.74
	6H	20.94	21.60	21.44	22.09	22.57	21.08	21.75	21.58	22.24	22.71
	8H	20.98	21.57	21.49	22.08	22.57	21.06	21.65	21.58	22.16	22.65
	12H	20.99	21.52	21.50	22.01	22.57	21.05	21.57	21.56	22.06	22.62
12H	4H	20.65	21.37	21.13	21.84	22.31	21.01	21.73	21.50	22.21	22.68
	6H	20.91	21.50	21.42	22.01	22.50	21.06	21.65	21.57	22.16	22.65
	8H	20.98	21.50	21.48	21.99	22.55	21.06	21.58	21.57	22.08	22.64