

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: P1499407

Luminaire Tested: MAE-G-4-120-2STD-HI-40-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499407
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-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

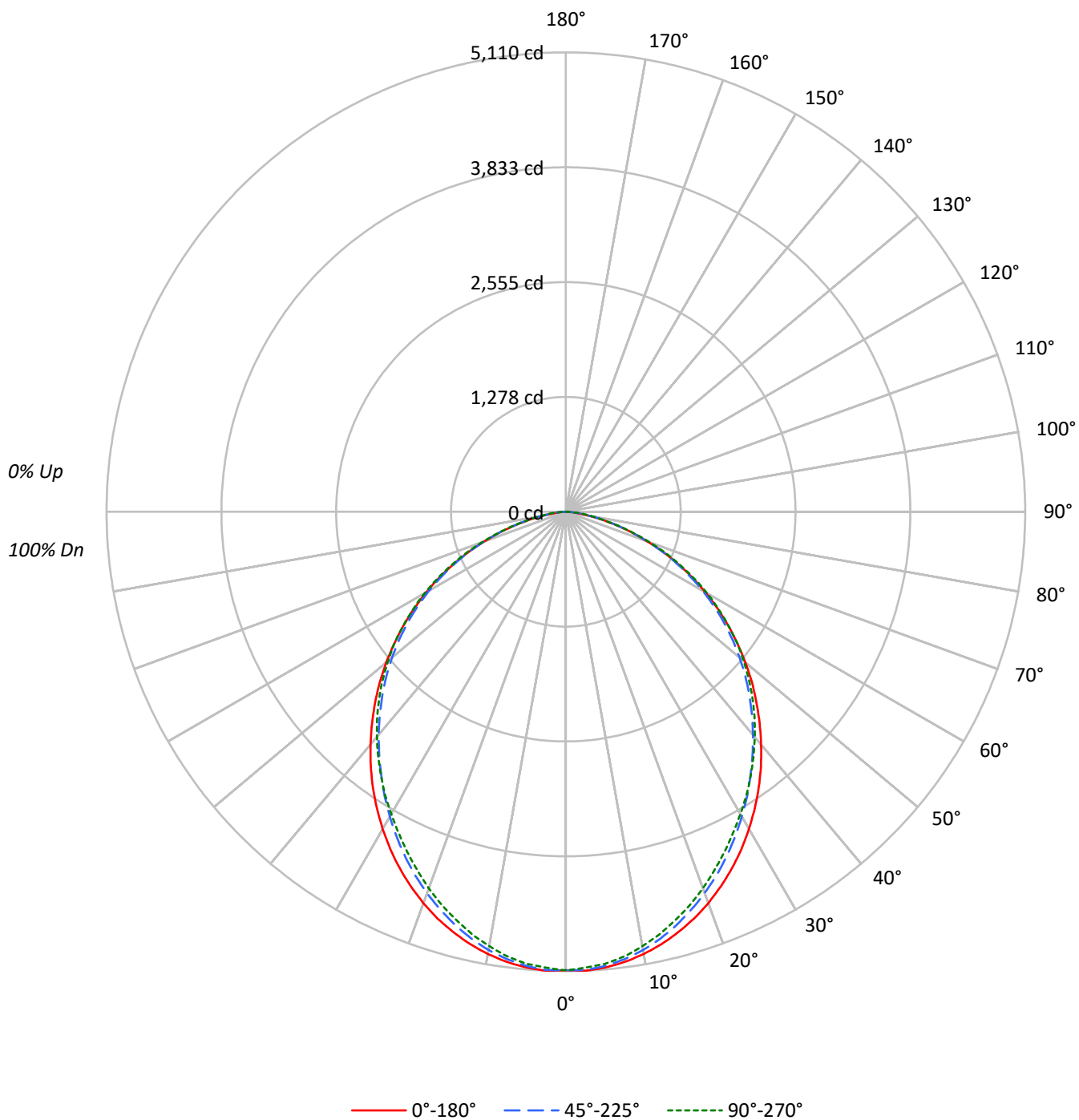
Lumens per Lamp: N/A
Luminaire Lumens: 12357.9 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	6863	6863	6863
5°	6872	6849	6815
10°	6825	6763	6704
15°	6742	6628	6551
20°	6633	6463	6381
25°	6495	6281	6197
30°	6331	6083	6032
35°	6146	5880	5887
40°	5935	5687	5742
45°	5707	5492	5590
50°	5458	5281	5402
55°	5171	5034	5176
60°	4827	4729	4890
65°	4393	4331	4467
70°	3799	3806	3899
75°	3032	3126	3154
80°	2063	2235	2316
85°	1073	1547	2005

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5707 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.4	3.9
10°-20°	1340.5	10.8
20°-30°	1956.0	15.8
30°-40°	2264.1	18.3
40°-50°	2255.7	18.3
50°-60°	1940.4	15.7
60°-70°	1358.4	11.0
70°-80°	638.5	5.2
80°-90°	124.9	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°	3775.9	30.6
0°-40°	6040.0	48.9
0°-60°	10236.1	82.8
0°-90°	12357.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12357.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5100	5100	5100	5100	5100	
5°	5088	5071	5071	5039	5046	483
15°	4840	4805	4758	4701	4703	1364
25°	4375	4318	4230	4171	4174	2014
35°	3742	3668	3580	3565	3584	2339
45°	2999	2931	2886	2913	2938	2313
55°	2204	2150	2146	2187	2207	1969
65°	1380	1349	1360	1388	1403	1365
75°	583	572	601	605	607	627
85°	70	79	100	121	130	102
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5100.5	5100.5	5100.5	5100.5	5100.5
2.5°	5110.3	5095.7	5100.5	5075.8	5076.0
5°	5088.3	5071.2	5070.8	5038.8	5046.1
7.5°	5049.4	5028.7	5019.5	4982.5	4988.8
10°	4995.4	4969.3	4949.9	4903.9	4906.9
12.5°	4926.1	4895.6	4863.5	4809.9	4814.5
15°	4839.9	4804.9	4758.3	4700.8	4702.7
17.5°	4744.8	4705.6	4642.0	4580.5	4587.6
20°	4632.6	4588.6	4513.6	4449.8	4456.5
22.5°	4508.1	4457.5	4378.5	4314.5	4316.8
25°	4374.8	4318.3	4230.5	4171.1	4174.2
27.5°	4230.3	4167.3	4076.3	4021.9	4028.9
30°	4074.9	4008.1	3915.5	3871.8	3882.3
32.5°	3911.4	3842.1	3751.3	3721.9	3739.0
35°	3741.9	3667.9	3579.8	3565.1	3584.2
37.5°	3565.2	3492.2	3410.2	3409.8	3429.5
40°	3378.8	3308.9	3238.1	3247.3	3269.0
42.5°	3190.8	3123.0	3064.1	3083.2	3106.8
45°	2999.1	2931.3	2886.2	2912.6	2937.5
47.5°	2807.8	2740.2	2707.6	2740.0	2762.6
50°	2607.5	2545.5	2523.0	2559.6	2580.8
52.5°	2404.2	2346.6	2336.0	2376.5	2404.2
55°	2204.4	2149.7	2145.8	2186.9	2206.7
57.5°	1998.6	1953.1	1954.7	1992.6	2013.0
60°	1793.7	1751.3	1757.2	1796.1	1817.3
62.5°	1586.3	1548.4	1560.1	1595.4	1611.2
65°	1379.8	1348.8	1360.3	1387.5	1403.2
67.5°	1175.6	1147.4	1164.3	1193.3	1200.6
70°	965.6	944.8	967.4	988.1	991.0
72.5°	771.3	752.7	778.3	791.7	790.9
75°	583.3	572.0	601.3	605.3	606.7
77.5°	412.3	412.3	432.7	437.6	440.1
80°	266.2	275.1	288.5	298.4	298.9
82.5°	150.4	160.2	174.7	198.3	207.6
85°	69.5	79.4	100.2	121.0	129.9
87.5°	23.4	31.0	42.2	45.8	43.6
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	17.62	19.20	17.99	19.52	19.83	17.75	19.33	18.11	19.64	19.96
	3H	19.09	20.52	19.47	20.84	21.20	19.25	20.68	19.63	21.00	21.36
	4H	19.52	20.86	19.92	21.21	21.58	19.70	21.04	20.10	21.38	21.76
	6H	19.73	20.97	20.14	21.33	21.73	19.94	21.18	20.35	21.54	21.93
	8H	19.76	20.94	20.19	21.33	21.73	20.00	21.18	20.42	21.57	21.97
	12H	19.76	20.89	20.19	21.27	21.70	20.03	21.16	20.46	21.54	21.97
4H	2H	18.17	19.50	18.57	19.85	20.23	18.27	19.61	18.67	19.95	20.33
	3H	19.82	20.93	20.23	21.33	21.73	19.96	21.08	20.37	21.48	21.88
	4H	20.33	21.33	20.76	21.75	22.18	20.51	21.51	20.94	21.92	22.36
	6H	20.62	21.49	21.08	21.94	22.39	20.83	21.70	21.29	22.15	22.60
	8H	20.67	21.48	21.13	21.93	22.39	20.92	21.73	21.38	22.18	22.64
	12H	20.68	21.41	21.16	21.89	22.36	20.98	21.71	21.46	22.19	22.66
8H	4H	20.53	21.34	20.99	21.78	22.25	20.69	21.50	21.15	21.94	22.41
	6H	20.88	21.55	21.37	22.04	22.52	21.08	21.75	21.57	22.24	22.72
	8H	20.95	21.55	21.46	22.06	22.55	21.20	21.80	21.71	22.31	22.80
	12H	20.99	21.52	21.50	22.01	22.58	21.31	21.84	21.82	22.33	22.90
12H	4H	20.53	21.26	21.01	21.73	22.20	20.68	21.41	21.17	21.89	22.36
	6H	20.88	21.48	21.39	21.99	22.48	21.08	21.68	21.59	22.19	22.68
	8H	20.99	21.52	21.50	22.01	22.58	21.24	21.77	21.75	22.26	22.83