

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: P1499605

Luminaire Tested: MAE-G-4-120-3LO-HI-50-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499605
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-HI-50-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

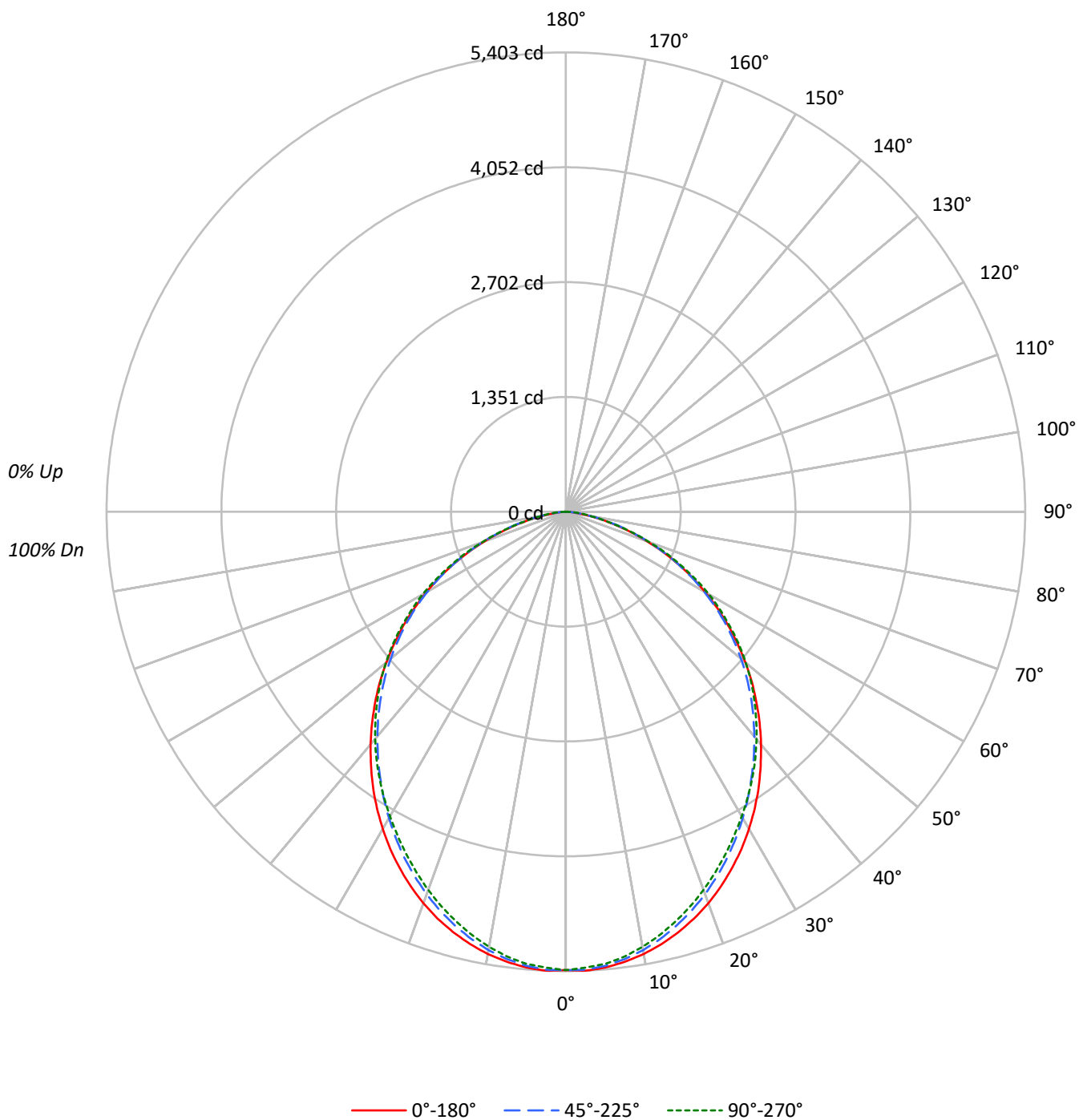
Lumens per Lamp: N/A
Luminaire Lumens: 13125.0 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 160.9
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	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	42	40		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	34	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	54	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°	7253	7253	7253
5°	7265	7239	7208
10°	7216	7152	7098
15°	7130	7017	6948
20°	7016	6854	6777
25°	6865	6669	6595
30°	6693	6463	6426
35°	6497	6257	6280
40°	6275	6056	6129
45°	6033	5853	5966
50°	5770	5628	5781
55°	5470	5372	5537
60°	5100	5051	5242
65°	4643	4634	4768
70°	4011	4078	4140
75°	3200	3334	3279
80°	2175	2339	2362
85°	1141	1596	2035

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6033 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.9	3.9
10°-20°	1419.2	10.8
20°-30°	2074.7	15.8
30°-40°	2404.7	18.3
40°-50°	2399.6	18.3
50°-60°	2067.2	15.8
60°-70°	1447.8	11.0
70°-80°	675.4	5.1
80°-90°	129.3	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°	4000.9	30.5
0°-40°	6405.6	48.8
0°-60°	10872.4	82.8
0°-90°	13125.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13125.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5391	5391	5391	5391	5391	
5°	5379	5360	5360	5328	5337	510
15°	5119	5082	5037	4983	4988	1442
25°	4624	4568	4492	4432	4442	2129
35°	3955	3882	3809	3797	3823	2471
45°	3171	3108	3076	3108	3136	2446
55°	2332	2280	2290	2341	2360	2081
65°	1458	1430	1456	1489	1498	1441
75°	616	609	641	639	631	661
85°	74	83	103	123	132	108
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5390.6	5390.6	5390.6	5390.6	5390.6
2.5°	5402.7	5385.3	5390.6	5365.7	5365.5
5°	5379.0	5359.5	5359.8	5328.2	5336.6
7.5°	5337.6	5315.0	5306.4	5270.0	5276.9
10°	5281.5	5253.3	5234.8	5191.1	5195.4
12.5°	5206.8	5175.5	5144.9	5093.6	5100.1
15°	5118.6	5082.2	5037.4	4982.8	4987.7
17.5°	5016.6	4974.4	4919.2	4857.3	4866.8
20°	4899.8	4852.1	4786.5	4721.7	4733.0
22.5°	4768.6	4716.0	4643.0	4580.9	4590.5
25°	4624.4	4568.0	4492.0	4432.5	4442.4
27.5°	4472.4	4409.3	4329.4	4278.7	4290.1
30°	4307.9	4241.0	4160.1	4118.3	4136.2
32.5°	4134.4	4065.6	3987.8	3960.2	3981.8
35°	3955.4	3882.3	3809.3	3797.3	3823.1
37.5°	3763.4	3697.0	3630.4	3633.8	3659.7
40°	3572.6	3503.7	3448.0	3461.6	3489.6
42.5°	3374.8	3310.2	3263.9	3289.4	3314.6
45°	3170.8	3107.8	3075.8	3107.8	3135.5
47.5°	2968.7	2906.1	2885.6	2923.3	2954.6
50°	2756.3	2699.4	2688.7	2735.1	2761.6
52.5°	2542.2	2488.3	2490.5	2541.2	2568.6
55°	2331.7	2279.8	2290.0	2340.7	2360.5
57.5°	2113.1	2072.5	2087.3	2134.2	2156.7
60°	1895.4	1857.7	1876.9	1925.1	1948.0
62.5°	1677.1	1645.1	1667.7	1712.2	1724.1
65°	1458.3	1430.0	1455.5	1488.7	1497.7
67.5°	1236.3	1216.6	1246.2	1273.2	1277.5
70°	1019.6	999.4	1036.7	1056.1	1052.4
72.5°	809.0	798.0	831.2	843.4	833.3
75°	615.5	608.7	641.4	639.1	630.7
77.5°	436.0	434.0	460.2	455.2	452.7
80°	280.7	288.6	301.9	306.8	304.9
82.5°	158.5	169.8	180.8	202.7	211.9
85°	73.9	83.2	103.4	123.1	131.8
87.5°	25.1	32.1	43.0	46.7	44.1
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	17.82	19.40	18.18	19.72	20.03	18.01	19.60	18.38	19.91	20.23
	3H	19.28	20.70	19.66	21.03	21.39	19.51	20.93	19.88	21.26	21.62
	4H	19.70	21.04	20.10	21.39	21.77	19.94	21.27	20.33	21.62	22.00
	6H	19.92	21.15	20.33	21.52	21.91	20.16	21.39	20.57	21.76	22.15
	8H	19.94	21.12	20.37	21.51	21.91	20.21	21.39	20.63	21.78	22.18
	12H	19.94	21.07	20.37	21.45	21.88	20.24	21.37	20.67	21.75	22.18
4H	2H	18.38	19.71	18.77	20.06	20.44	18.53	19.87	18.93	20.22	20.60
	3H	20.02	21.13	20.43	21.53	21.93	20.22	21.33	20.63	21.73	22.13
	4H	20.53	21.53	20.96	21.95	22.38	20.74	21.75	21.17	22.16	22.60
	6H	20.82	21.69	21.27	22.13	22.59	21.05	21.92	21.50	22.36	22.82
	8H	20.86	21.68	21.32	22.12	22.59	21.12	21.94	21.58	22.38	22.85
	12H	20.88	21.60	21.36	22.08	22.55	21.18	21.91	21.66	22.38	22.85
8H	4H	20.73	21.54	21.19	21.98	22.45	20.92	21.73	21.38	22.18	22.64
	6H	21.07	21.74	21.57	22.23	22.71	21.28	21.96	21.78	22.45	22.92
	8H	21.14	21.75	21.66	22.25	22.74	21.40	22.00	21.91	22.51	22.99
	12H	21.18	21.71	21.69	22.21	22.77	21.50	22.03	22.00	22.52	23.08
12H	4H	20.73	21.46	21.21	21.93	22.40	20.92	21.65	21.40	22.12	22.59
	6H	21.07	21.68	21.58	22.18	22.67	21.28	21.89	21.79	22.39	22.88
	8H	21.18	21.71	21.69	22.20	22.77	21.43	21.96	21.94	22.46	23.02