

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: P1499227

Luminaire Tested: MAE-G-4-120-2HI-LO-30-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499227
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-4-120-2HI-LO-30-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

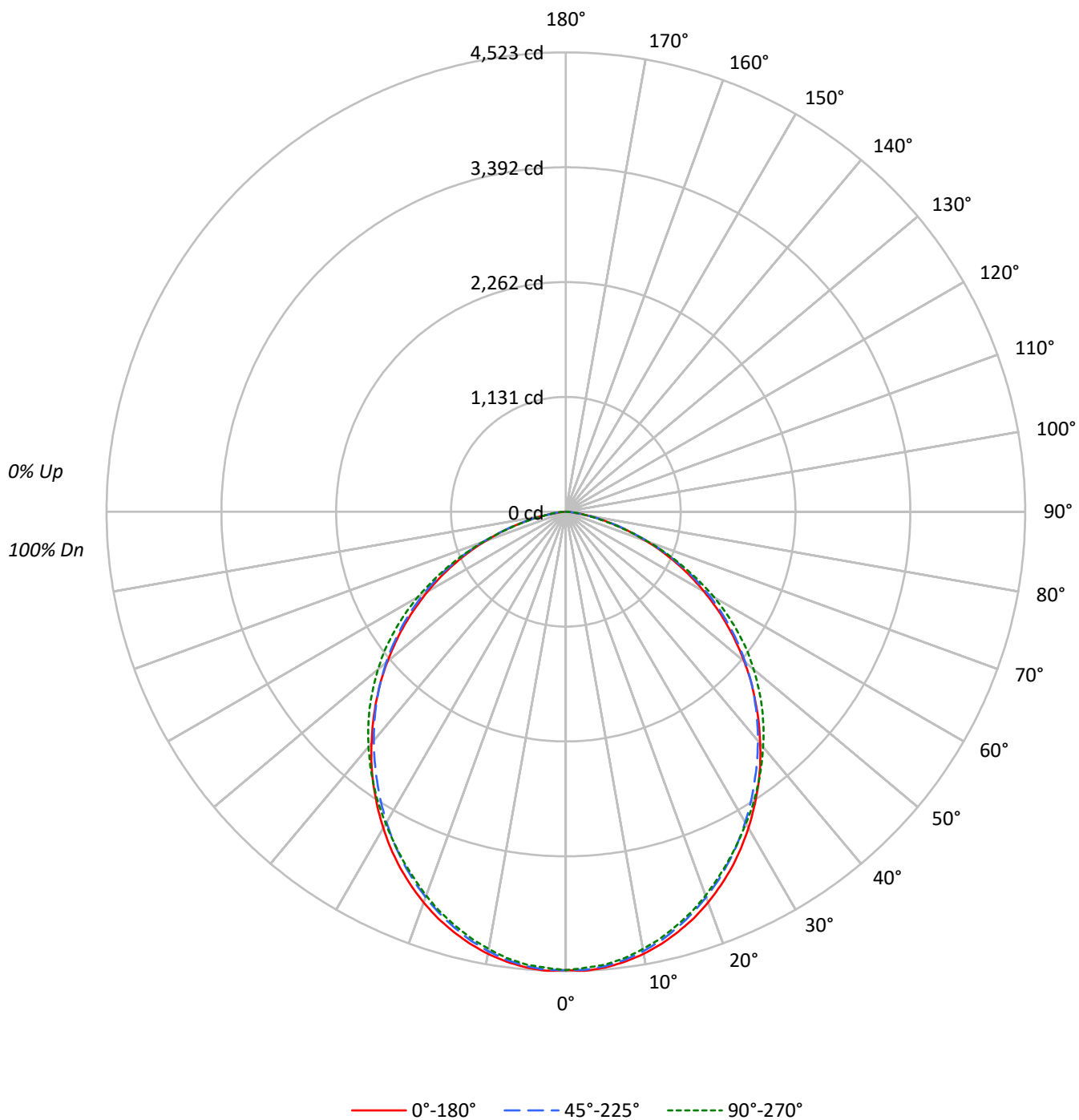
Lumens per Lamp: N/A
Luminaire Lumens: 11098.0 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.8
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	93	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	76	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	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	41	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6072	6072	6072
5°	6082	6065	6043
10°	6038	6003	5972
15°	5962	5905	5874
20°	5862	5783	5758
25°	5737	5642	5625
30°	5588	5487	5509
35°	5420	5322	5411
40°	5228	5168	5308
45°	5023	5009	5200
50°	4799	4832	5052
55°	4543	4618	4849
60°	4233	4346	4550
65°	3840	3968	4055
70°	3306	3417	3389
75°	2624	2686	2526
80°	1758	1739	1598
85°	880	1057	1286

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5200 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.9	3.8
10°-20°	1194.3	10.8
20°-30°	1754.0	15.8
30°-40°	2043.3	18.4
40°-50°	2048.4	18.5
50°-60°	1769.9	15.9
60°-70°	1226.6	11.1
70°-80°	544.7	4.9
80°-90°	91.8	0.8
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°	3373.2	30.4
0°-40°	5416.5	48.8
0°-60°	9234.8	83.2
0°-90°	11098.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11098.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4513	4513	4513	4513	4513	
5°	4503	4484	4490	4470	4474	427
15°	4280	4254	4239	4212	4217	1206
25°	3864	3833	3800	3778	3789	1779
35°	3300	3263	3240	3264	3294	2062
45°	2640	2613	2632	2694	2733	2037
55°	1936	1920	1969	2039	2067	1729
65°	1206	1208	1246	1263	1274	1194
75°	505	509	517	494	486	543
85°	57	61	68	79	83	86
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4513.0	4513.0	4513.0	4513.0	4513.0
2.5°	4523.2	4504.5	4513.0	4498.0	4493.7
5°	4502.9	4483.9	4490.3	4469.8	4474.5
7.5°	4468.1	4447.7	4449.6	4428.0	4433.2
10°	4419.4	4395.9	4393.5	4367.9	4371.2
12.5°	4357.5	4332.5	4324.6	4296.3	4302.8
15°	4280.1	4253.6	4239.0	4211.8	4216.7
17.5°	4195.3	4168.7	4144.4	4116.6	4126.7
20°	4094.3	4067.1	4038.6	4009.3	4021.4
22.5°	3982.9	3953.1	3925.2	3897.3	3906.9
25°	3864.4	3832.9	3800.4	3778.1	3789.2
27.5°	3735.1	3700.4	3670.0	3652.7	3668.1
30°	3596.5	3561.2	3531.9	3525.6	3546.0
32.5°	3450.4	3415.8	3389.2	3398.3	3426.1
35°	3299.8	3263.2	3240.3	3263.6	3294.2
37.5°	3143.4	3107.9	3092.9	3129.9	3161.9
40°	2976.7	2946.1	2942.6	2988.7	3022.3
42.5°	2810.0	2781.9	2789.4	2845.1	2881.4
45°	2639.8	2612.6	2632.2	2693.8	2732.6
47.5°	2471.9	2443.1	2473.2	2540.3	2575.0
50°	2292.8	2270.6	2308.6	2378.1	2413.7
52.5°	2114.6	2094.5	2140.4	2213.1	2253.0
55°	1936.5	1920.1	1968.7	2039.1	2067.2
57.5°	1754.3	1745.4	1795.5	1855.8	1882.1
60°	1573.1	1565.9	1615.2	1667.8	1691.0
62.5°	1390.0	1385.9	1433.1	1471.7	1482.9
65°	1206.3	1208.4	1246.5	1262.6	1273.8
67.5°	1027.3	1027.6	1060.2	1070.1	1071.0
70°	840.4	846.6	868.7	867.5	861.5
72.5°	670.3	672.8	685.8	674.1	664.5
75°	504.8	508.8	516.7	494.4	485.9
77.5°	354.4	363.1	357.2	337.0	329.3
80°	226.9	235.8	224.4	212.5	206.3
82.5°	126.1	131.0	125.2	134.1	137.9
85°	57.0	61.0	68.5	79.3	83.3
87.5°	19.4	23.1	28.4	29.9	28.1
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	17.19	18.77	17.56	19.09	19.40	17.63	19.21	17.99	19.53	19.84
	3H	18.64	20.07	19.02	20.39	20.75	19.01	20.43	19.39	20.76	21.12
	4H	19.06	20.40	19.46	20.74	21.12	19.36	20.70	19.76	21.05	21.42
	6H	19.26	20.49	19.67	20.86	21.25	19.51	20.74	19.92	21.11	21.50
	8H	19.28	20.46	19.71	20.85	21.25	19.53	20.70	19.95	21.09	21.49
	12H	19.28	20.40	19.71	20.78	21.21	19.53	20.66	19.96	21.04	21.47
4H	2H	17.78	19.11	18.18	19.46	19.84	18.13	19.47	18.53	19.82	20.19
	3H	19.40	20.51	19.81	20.91	21.31	19.69	20.80	20.10	21.20	21.60
	4H	19.90	20.90	20.33	21.31	21.75	20.13	21.12	20.56	21.54	21.98
	6H	20.17	21.04	20.63	21.48	21.94	20.33	21.20	20.79	21.64	22.10
	8H	20.21	21.02	20.67	21.47	21.93	20.37	21.18	20.83	21.62	22.09
	12H	20.22	20.94	20.70	21.42	21.89	20.39	21.12	20.87	21.59	22.06
8H	4H	20.07	20.88	20.54	21.33	21.79	20.28	21.09	20.74	21.53	22.00
	6H	20.40	21.07	20.89	21.56	22.03	20.53	21.20	21.03	21.69	22.17
	8H	20.46	21.06	20.97	21.56	22.05	20.59	21.19	21.10	21.70	22.18
	12H	20.49	21.01	21.00	21.51	22.07	20.64	21.17	21.15	21.66	22.22
12H	4H	20.07	20.79	20.55	21.27	21.74	20.27	21.00	20.76	21.48	21.95
	6H	20.39	20.99	20.90	21.50	21.98	20.52	21.12	21.03	21.63	22.12
	8H	20.48	21.01	20.99	21.50	22.06	20.61	21.14	21.12	21.63	22.19