

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: P1499296

Luminaire Tested: MAE-G-4-120-2LO-HI-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499296
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-4-120-2LO-HI-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

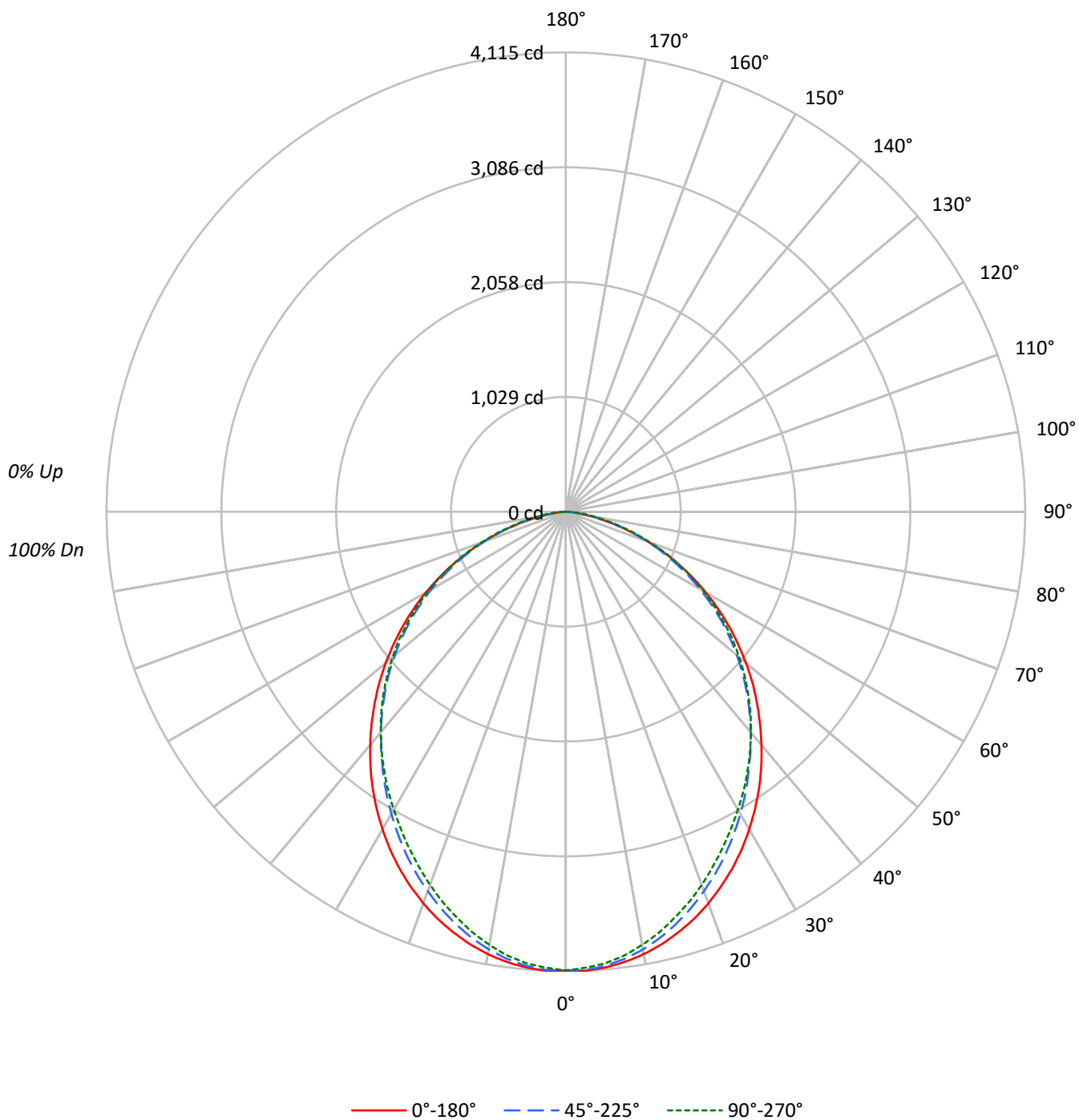
Lumens per Lamp: N/A
Luminaire Lumens: 9886.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.9
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	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	60	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°	5527	5527	5527
5°	5535	5514	5484
10°	5497	5439	5383
15°	5431	5322	5244
20°	5345	5179	5093
25°	5235	5023	4933
30°	5105	4857	4787
35°	4958	4687	4659
40°	4789	4525	4531
45°	4607	4362	4398
50°	4408	4188	4239
55°	4178	3987	4059
60°	3902	3742	3847
65°	3557	3432	3556
70°	3082	3044	3165
75°	2466	2551	2649
80°	1689	1899	2050
85°	891	1372	1817

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4607 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.8	3.9
10°-20°	1076.2	10.9
20°-30°	1565.8	15.8
30°-40°	1807.0	18.3
40°-50°	1795.2	18.2
50°-60°	1541.0	15.6
60°-70°	1083.9	11.0
70°-80°	522.6	5.3
80°-90°	108.3	1.1
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°	3027.9	30.6
0°-40°	4834.9	48.9
0°-60°	8171.2	82.7
0°-90°	9886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9886.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4108	4108	4108	4108	4108	
5°	4098	4086	4082	4054	4060	389
15°	3899	3869	3820	3764	3765	1099
25°	3526	3473	3384	3324	3323	1623
35°	3018	2947	2853	2827	2836	1886
45°	2421	2353	2292	2298	2311	1867
55°	1781	1724	1700	1719	1730	1590
65°	1117	1080	1078	1103	1117	1105
75°	474	460	491	504	510	510
85°	58	68	89	109	118	84
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4107.8	4107.8	4107.8	4107.8	4107.8
2.5°	4115.3	4105.8	4107.8	4085.3	4087.1
5°	4097.8	4085.7	4082.5	4053.5	4060.1
7.5°	4066.5	4050.8	4039.3	4005.0	4010.1
10°	4023.5	4002.6	3980.9	3937.7	3939.8
12.5°	3967.8	3942.5	3908.2	3857.4	3859.9
15°	3898.9	3868.9	3820.4	3764.4	3764.7
17.5°	3822.6	3787.7	3723.4	3663.0	3667.2
20°	3733.0	3692.7	3616.8	3554.2	3557.3
22.5°	3633.2	3586.4	3505.5	3442.1	3440.8
25°	3526.0	3473.0	3383.7	3323.5	3322.7
27.5°	3410.3	3350.9	3257.1	3200.7	3202.4
30°	3285.7	3222.0	3125.9	3077.4	3081.3
32.5°	3154.5	3087.7	2992.4	2954.5	2963.1
35°	3018.3	2946.8	2853.3	2826.6	2836.3
37.5°	2875.9	2805.2	2715.6	2699.9	2709.8
40°	2726.5	2657.5	2576.3	2568.0	2579.6
42.5°	2575.3	2507.7	2435.7	2435.3	2447.9
45°	2421.2	2353.1	2292.3	2297.9	2311.2
47.5°	2266.6	2199.4	2149.0	2159.3	2171.3
50°	2106.0	2042.7	2000.7	2015.0	2025.3
52.5°	1941.4	1882.5	1851.3	1868.7	1884.7
55°	1781.2	1724.0	1699.5	1718.7	1730.2
57.5°	1615.5	1566.0	1547.3	1566.9	1579.8
60°	1450.2	1403.8	1390.5	1414.3	1429.6
62.5°	1283.3	1240.6	1234.9	1260.3	1274.1
65°	1117.3	1080.1	1077.9	1103.1	1116.9
67.5°	952.1	919.1	925.5	955.2	963.4
70°	783.4	756.5	773.9	798.6	804.5
72.5°	626.2	603.5	628.0	648.4	651.4
75°	474.4	459.6	490.7	504.4	509.6
77.5°	336.3	332.7	359.0	373.0	379.1
80°	218.0	224.7	245.1	261.5	264.6
82.5°	124.0	133.3	152.7	176.7	186.0
85°	57.7	67.7	88.9	108.9	117.7
87.5°	19.4	26.8	37.8	41.2	39.3
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	16.87	18.45	17.24	18.77	19.08	16.85	18.43	17.21	18.75	19.06
	3H	18.35	19.77	18.73	20.10	20.46	18.42	19.84	18.79	20.17	20.53
	4H	18.78	20.12	19.18	20.47	20.85	18.91	20.25	19.31	20.60	20.97
	6H	19.00	20.24	19.41	20.61	21.00	19.20	20.44	19.61	20.80	21.19
	8H	19.03	20.21	19.46	20.60	21.00	19.28	20.46	19.70	20.85	21.25
	12H	19.04	20.17	19.46	20.55	20.98	19.33	20.46	19.76	20.84	21.27
4H	2H	17.40	18.74	17.80	19.09	19.46	17.38	18.72	17.78	19.07	19.44
	3H	19.06	20.17	19.47	20.57	20.97	19.14	20.26	19.55	20.66	21.06
	4H	19.58	20.59	20.01	21.00	21.44	19.74	20.74	20.17	21.16	21.60
	6H	19.88	20.75	20.34	21.20	21.65	20.13	21.00	20.58	21.44	21.90
	8H	19.93	20.75	20.39	21.19	21.66	20.24	21.05	20.70	21.50	21.96
	12H	19.95	20.68	20.43	21.16	21.63	20.32	21.05	20.80	21.53	22.00
8H	4H	19.79	20.60	20.25	21.05	21.51	19.93	20.75	20.39	21.19	21.66
	6H	20.15	20.82	20.64	21.31	21.79	20.39	21.07	20.89	21.56	22.03
	8H	20.23	20.83	20.74	21.34	21.83	20.55	21.15	21.06	21.66	22.15
	12H	20.27	20.81	20.78	21.30	21.86	20.69	21.22	21.20	21.71	22.28
12H	4H	19.79	20.52	20.28	21.00	21.47	19.93	20.66	20.41	21.14	21.61
	6H	20.16	20.77	20.67	21.28	21.76	20.40	21.00	20.91	21.51	22.00
	8H	20.28	20.81	20.79	21.31	21.87	20.60	21.13	21.10	21.62	22.18

END OF REPORT