

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: P1498924

Luminaire Tested: MAE-G-4-120-1HI-HI-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1HI-HI-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

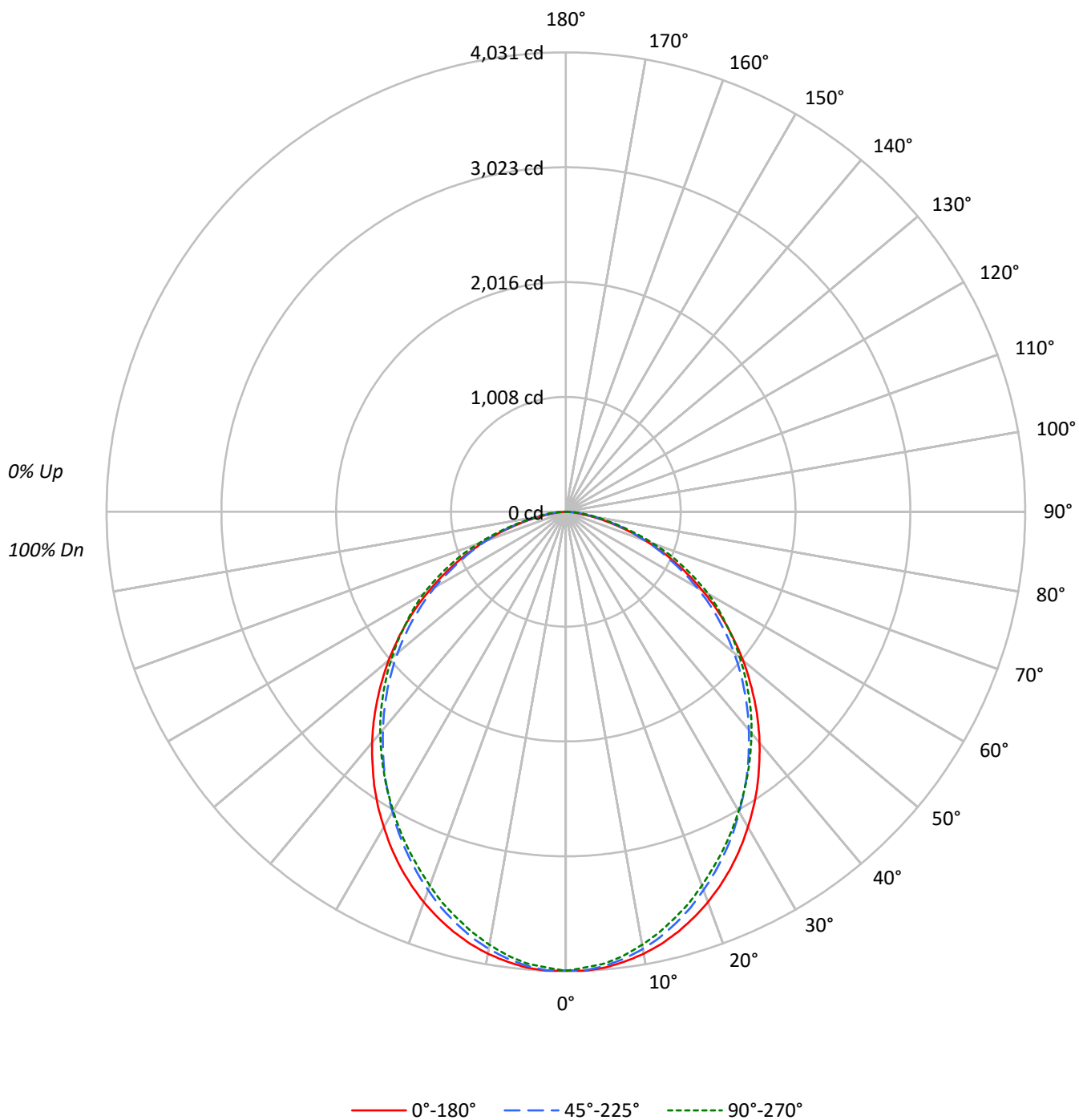
Lumens per Lamp: N/A
Luminaire Lumens: 9636.0 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	82	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	61	56		64
5	78	65	56	50	75	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	45	39	51	44	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5418	5418	5418
5°	5420	5399	5373
10°	5381	5322	5271
15°	5313	5203	5141
20°	5220	5058	4999
25°	5104	4902	4852
30°	4964	4727	4709
35°	4816	4561	4577
40°	4645	4388	4453
45°	4454	4217	4315
50°	4252	4034	4172
55°	4016	3820	4022
60°	3727	3575	3888
65°	3391	3258	3615
70°	2943	2929	3222
75°	2349	2493	2646
80°	1624	1925	2098
85°	908	1468	1910

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4454 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.0	3.9
10°-20°	1053.7	10.9
20°-30°	1530.6	15.9
30°-40°	1761.5	18.3
40°-50°	1743.5	18.1
50°-60°	1492.8	15.5
60°-70°	1052.9	10.9
70°-80°	511.5	5.3
80°-90°	111.4	1.2
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°	2962.3	30.7
0°-40°	4723.8	49.0
0°-60°	7960.2	82.6
0°-90°	9636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4027	4027	4027	4027	4027	
5°	4013	4009	3998	3969	3978	381
15°	3814	3793	3736	3686	3691	1075
25°	3438	3388	3302	3259	3268	1582
35°	2932	2863	2777	2767	2786	1832
45°	2341	2278	2216	2243	2268	1806
55°	1712	1654	1629	1677	1714	1528
65°	1065	1020	1023	1101	1136	1054
75°	452	432	480	509	509	488
85°	59	72	95	115	124	83
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4026.7	4026.7	4026.7	4026.7	4026.7
2.5°	4031.3	4034.7	4026.7	3996.5	4001.8
5°	4012.8	4009.4	3997.5	3969.2	3978.1
7.5°	3980.8	3975.2	3953.7	3920.2	3926.1
10°	3938.3	3927.3	3895.3	3853.4	3858.3
12.5°	3883.2	3868.4	3823.2	3775.8	3781.1
15°	3814.1	3792.9	3735.5	3685.6	3690.9
17.5°	3735.0	3710.7	3641.2	3587.2	3598.6
20°	3645.4	3612.5	3532.5	3481.3	3491.1
22.5°	3546.5	3505.2	3421.4	3371.9	3379.7
25°	3437.8	3387.6	3301.6	3259.3	3268.5
27.5°	3320.4	3265.4	3176.8	3138.2	3152.5
30°	3195.3	3136.1	3042.3	3015.7	3031.1
32.5°	3067.0	3003.9	2911.4	2894.3	2909.8
35°	2931.9	2863.1	2777.1	2766.8	2786.3
37.5°	2787.6	2721.5	2636.4	2643.0	2661.3
40°	2644.6	2576.1	2498.4	2513.1	2535.0
42.5°	2495.8	2429.8	2358.9	2379.4	2405.1
45°	2340.9	2277.9	2216.0	2243.2	2267.7
47.5°	2185.4	2123.0	2072.7	2104.6	2133.8
50°	2031.1	1971.1	1927.1	1965.7	1993.2
52.5°	1869.1	1811.9	1780.4	1821.3	1856.5
55°	1712.0	1653.9	1628.6	1677.1	1714.5
57.5°	1549.7	1502.1	1480.2	1537.2	1583.9
60°	1385.0	1337.9	1328.5	1400.8	1444.9
62.5°	1223.8	1177.7	1173.6	1258.2	1289.9
65°	1065.2	1019.7	1023.3	1101.3	1135.5
67.5°	908.1	866.4	885.6	960.4	983.2
70°	748.1	710.9	744.5	807.6	818.9
72.5°	597.7	566.4	612.0	656.2	659.0
75°	451.8	432.4	479.5	508.7	508.9
77.5°	323.4	313.2	356.6	376.5	377.6
80°	209.6	214.3	248.5	264.0	270.8
82.5°	122.3	133.1	159.7	186.2	193.2
85°	58.8	71.7	95.1	115.3	123.7
87.5°	20.3	29.0	39.6	44.0	42.8
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	16.67	18.25	17.03	18.57	18.88	16.84	18.42	17.20	18.74	19.05
	3H	18.12	19.54	18.49	19.87	20.23	18.48	19.91	18.86	20.23	20.59
	4H	18.55	19.88	18.94	20.23	20.61	18.98	20.32	19.38	20.67	21.05
	6H	18.77	20.00	19.18	20.37	20.76	19.28	20.52	19.69	20.88	21.27
	8H	18.80	19.98	19.23	20.37	20.77	19.37	20.55	19.79	20.94	21.34
	12H	18.81	19.94	19.23	20.32	20.75	19.43	20.56	19.86	20.94	21.37
4H	2H	17.18	18.52	17.58	18.87	19.25	17.32	18.66	17.72	19.01	19.39
	3H	18.82	19.93	19.23	20.33	20.73	19.17	20.29	19.58	20.68	21.08
	4H	19.33	20.34	19.76	20.75	21.19	19.79	20.79	20.22	21.20	21.64
	6H	19.63	20.51	20.09	20.95	21.41	20.18	21.06	20.64	21.50	21.96
	8H	19.69	20.50	20.15	20.95	21.41	20.31	21.12	20.77	21.57	22.03
	12H	19.71	20.44	20.19	20.92	21.39	20.40	21.14	20.89	21.61	22.08
8H	4H	19.56	20.37	20.02	20.82	21.28	19.97	20.78	20.43	21.23	21.69
	6H	19.92	20.60	20.42	21.09	21.56	20.45	21.12	20.94	21.61	22.09
	8H	20.01	20.62	20.52	21.12	21.61	20.62	21.23	21.13	21.74	22.22
	12H	20.06	20.60	20.57	21.09	21.65	20.78	21.31	21.29	21.80	22.37
12H	4H	19.57	20.30	20.05	20.78	21.25	19.97	20.70	20.45	21.17	21.64
	6H	19.94	20.55	20.46	21.06	21.55	20.45	21.06	20.96	21.57	22.05
	8H	20.07	20.61	20.58	21.10	21.66	20.67	21.21	21.18	21.70	22.26