

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: P1499410

Luminaire Tested: MAE-G-4-120-2STD-HI-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499410
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-50-90-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

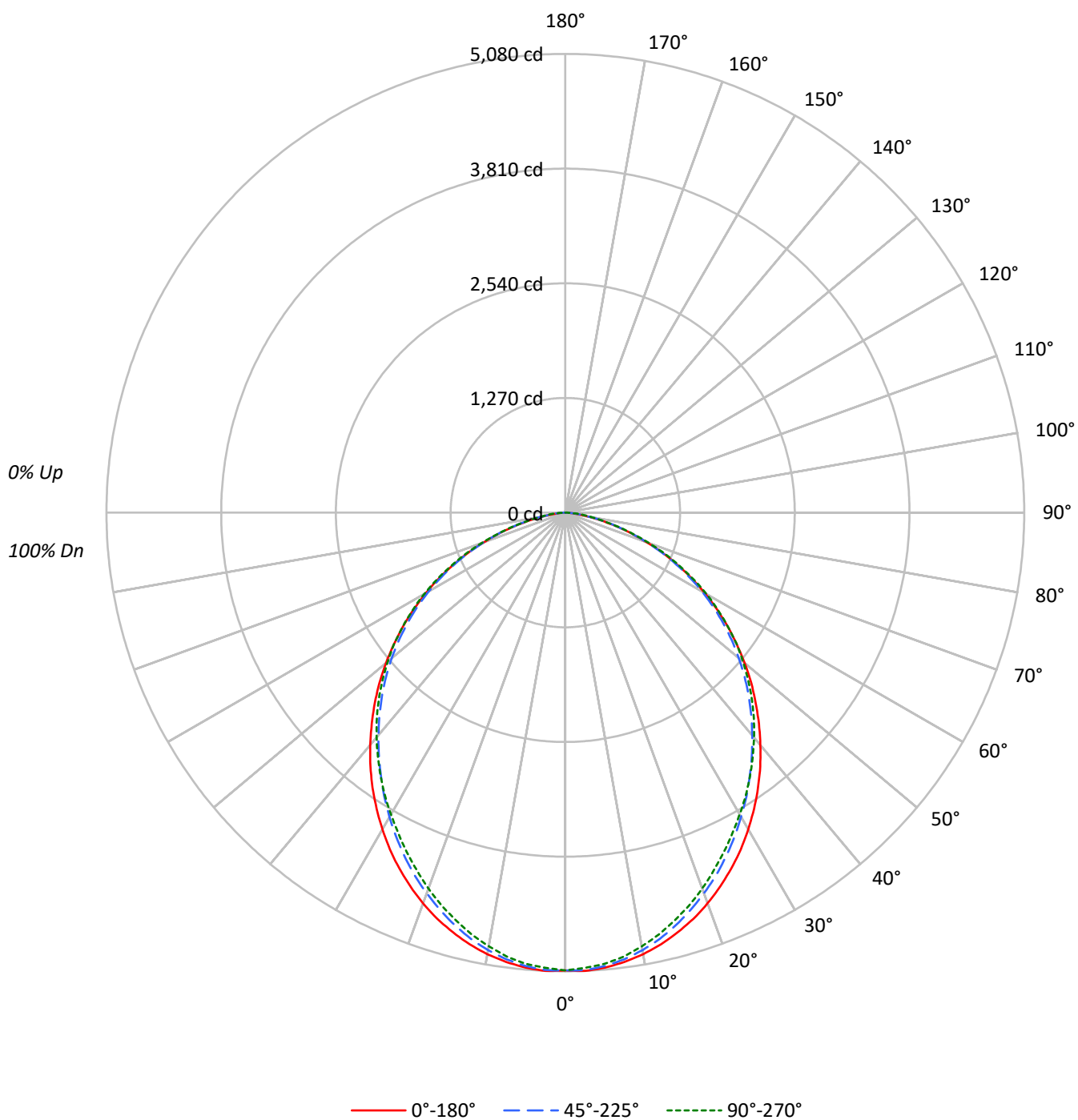
Lumens per Lamp: N/A
Luminaire Lumens: 12284.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	85	80	87	82	78		84	80	76		81
3	92	82	74	68	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	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6822	6822	6822
5°	6831	6808	6774
10°	6784	6722	6664
15°	6701	6588	6511
20°	6593	6424	6343
25°	6456	6243	6160
30°	6293	6047	5996
35°	6109	5845	5852
40°	5899	5654	5707
45°	5673	5459	5556
50°	5426	5249	5370
55°	5140	5004	5145
60°	4798	4700	4861
65°	4367	4305	4441
70°	3776	3783	3875
75°	3014	3107	3135
80°	2050	2222	2302
85°	1065	1538	1993

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5673 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.5	3.9
10°-20°	1332.4	10.8
20°-30°	1944.3	15.8
30°-40°	2250.5	18.3
40°-50°	2242.2	18.3
50°-60°	1928.8	15.7
60°-70°	1350.3	11.0
70°-80°	634.7	5.2
80°-90°	124.2	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°	3753.3	30.6
0°-40°	6003.9	48.9
0°-60°	10174.8	82.8
0°-90°	12284.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12284.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5070	5070	5070	5070	5070	
5°	5058	5041	5040	5009	5016	480
15°	4811	4776	4730	4673	4675	1356
25°	4349	4292	4205	4146	4149	2002
35°	3720	3646	3558	3544	3563	2325
45°	2981	2914	2869	2895	2920	2300
55°	2191	2137	2133	2174	2193	1957
65°	1372	1341	1352	1379	1395	1357
75°	580	569	598	602	603	624
85°	69	79	100	120	129	102
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5070.0	5070.0	5070.0	5070.0	5070.0
2.5°	5079.8	5065.2	5070.0	5045.4	5045.6
5°	5057.8	5040.9	5040.5	5008.6	5015.8
7.5°	5019.1	4998.6	4989.5	4952.7	4959.0
10°	4965.5	4939.5	4920.2	4874.5	4877.4
12.5°	4896.5	4866.3	4834.4	4781.1	4785.7
15°	4810.9	4776.1	4729.8	4672.6	4674.6
17.5°	4716.4	4677.5	4614.2	4553.0	4560.1
20°	4604.9	4561.1	4486.6	4423.1	4429.9
22.5°	4481.1	4430.9	4352.3	4288.7	4291.0
25°	4348.6	4292.5	4205.2	4146.1	4149.2
27.5°	4205.0	4142.4	4052.0	3997.8	4004.7
30°	4050.5	3984.1	3892.1	3848.6	3859.1
32.5°	3888.0	3819.1	3728.8	3699.7	3716.6
35°	3719.5	3646.0	3558.4	3543.8	3562.7
37.5°	3543.8	3471.3	3389.8	3389.4	3409.0
40°	3358.6	3289.1	3218.8	3227.8	3249.4
42.5°	3171.7	3104.3	3045.8	3064.9	3088.2
45°	2981.2	2913.7	2868.8	2895.1	2920.0
47.5°	2791.1	2723.9	2691.4	2723.6	2746.0
50°	2592.0	2530.3	2507.8	2544.3	2565.3
52.5°	2389.8	2332.5	2322.0	2362.2	2389.8
55°	2191.2	2136.9	2133.0	2173.9	2193.4
57.5°	1986.7	1941.5	1943.0	1980.8	2000.8
60°	1782.9	1740.8	1746.7	1785.3	1806.4
62.5°	1576.9	1539.2	1550.8	1585.9	1601.6
65°	1371.6	1340.7	1352.1	1379.2	1394.8
67.5°	1168.6	1140.5	1157.4	1186.2	1193.4
70°	959.8	939.1	961.6	982.3	985.1
72.5°	766.7	748.2	773.6	787.0	786.2
75°	579.8	568.6	597.7	601.7	603.1
77.5°	409.9	409.9	430.2	435.0	437.5
80°	264.6	273.5	286.8	296.6	297.1
82.5°	149.5	159.2	173.6	197.1	206.4
85°	69.0	79.0	99.6	120.3	129.1
87.5°	23.3	30.8	42.0	45.5	43.2
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	17.60	19.18	17.96	19.50	19.81	17.72	19.31	18.09	19.62	19.94
	3H	19.07	20.49	19.45	20.82	21.18	19.23	20.66	19.61	20.98	21.34
	4H	19.50	20.84	19.90	21.18	21.56	19.68	21.02	20.08	21.36	21.74
	6H	19.71	20.95	20.12	21.31	21.70	19.92	21.15	20.33	21.52	21.91
	8H	19.74	20.92	20.16	21.31	21.71	19.98	21.16	20.40	21.54	21.94
	12H	19.74	20.87	20.17	21.25	21.68	20.01	21.14	20.44	21.52	21.95
4H	2H	18.15	19.48	18.54	19.83	20.21	18.25	19.59	18.65	19.93	20.31
	3H	19.80	20.91	20.21	21.31	21.71	19.94	21.06	20.35	21.46	21.86
	4H	20.31	21.31	20.74	21.73	22.16	20.49	21.49	20.92	21.90	22.34
	6H	20.60	21.47	21.06	21.91	22.37	20.81	21.68	21.27	22.13	22.58
	8H	20.65	21.46	21.11	21.91	22.37	20.90	21.71	21.36	22.15	22.62
	12H	20.66	21.39	21.14	21.87	22.34	20.96	21.69	21.44	22.17	22.64
8H	4H	20.50	21.32	20.97	21.76	22.23	20.66	21.48	21.13	21.92	22.39
	6H	20.86	21.53	21.35	22.02	22.49	21.06	21.73	21.55	22.22	22.70
	8H	20.93	21.53	21.44	22.04	22.53	21.18	21.78	21.69	22.29	22.78
	12H	20.97	21.50	21.48	21.99	22.56	21.29	21.82	21.80	22.31	22.88
12H	4H	20.51	21.24	20.99	21.71	22.18	20.66	21.39	21.14	21.87	22.34
	6H	20.86	21.46	21.37	21.97	22.46	21.06	21.66	21.57	22.17	22.66
	8H	20.97	21.50	21.48	21.99	22.56	21.22	21.75	21.73	22.24	22.81