

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: P1499740

Luminaire Tested: MAE-G-4-120-3STD-STD-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499740
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-4-120-3STD-STD-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

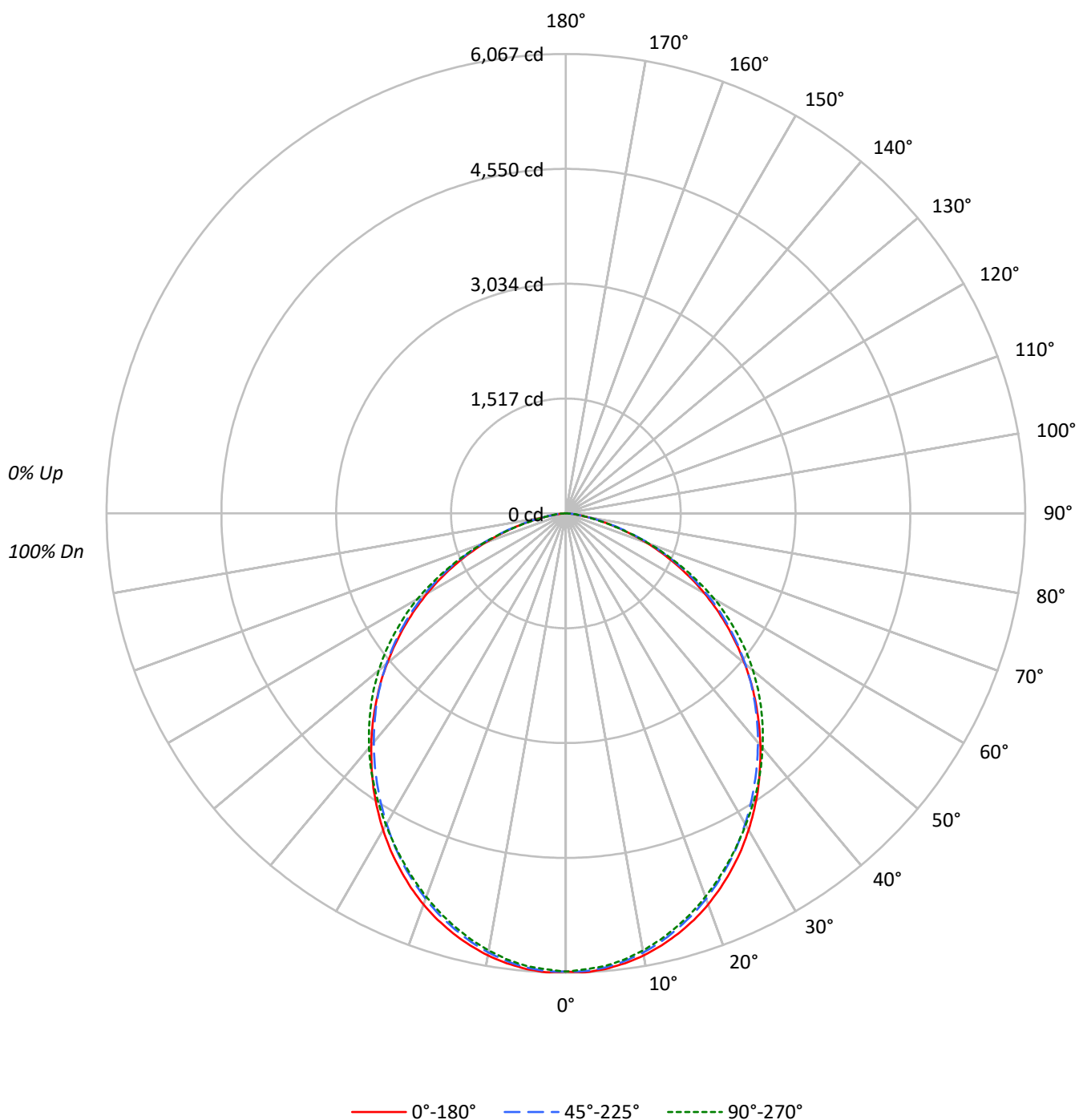
Lumens per Lamp: N/A
Luminaire Lumens: 14897.0 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 170.9
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
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	81	98	91	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	57		67	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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8142	8142	8142
5°	8157	8131	8104
10°	8100	8047	8008
15°	8002	7916	7875
20°	7871	7757	7717
25°	7698	7570	7543
30°	7501	7358	7382
35°	7277	7142	7246
40°	7024	6932	7101
45°	6750	6717	6941
50°	6450	6473	6752
55°	6111	6191	6476
60°	5692	5829	6104
65°	5170	5339	5456
70°	4452	4637	4596
75°	3537	3677	3428
80°	2380	2404	2224
85°	1221	1501	1820

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6941 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.8	3.8
10°-20°	1601.2	10.7
20°-30°	2351.9	15.8
30°-40°	2738.5	18.4
40°-50°	2745.0	18.4
50°-60°	2372.5	15.9
60°-70°	1650.5	11.1
70°-80°	740.0	5.0
80°-90°	127.7	0.9
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°	4522.9	30.4
0°-40°	7261.4	48.7
0°-60°	12378.9	83.1
0°-90°	14897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14897.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6052	6052	6052	6052	6052	
5°	6040	6014	6020	5992	6000	573
15°	5745	5708	5683	5645	5654	1619
25°	5186	5140	5099	5061	5081	2388
35°	4430	4376	4348	4369	4411	2768
45°	3547	3508	3530	3601	3648	2737
55°	2605	2577	2639	2729	2760	2326
65°	1624	1620	1677	1708	1714	1605
75°	680	687	707	680	660	731
85°	79	85	97	112	118	117
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6051.6	6051.6	6051.6	6051.6	6051.6
2.5°	6066.8	6041.6	6051.6	6030.1	6025.6
5°	6039.6	6013.6	6020.2	5992.4	6000.5
7.5°	5992.7	5965.2	5964.8	5934.7	5942.1
10°	5928.9	5896.7	5889.9	5855.6	5861.4
12.5°	5844.3	5811.0	5796.2	5757.2	5766.9
15°	5744.8	5708.2	5683.1	5644.8	5653.6
17.5°	5629.4	5589.2	5559.0	5514.4	5528.8
20°	5497.1	5453.8	5417.7	5370.3	5389.3
22.5°	5348.9	5303.4	5262.0	5219.6	5238.9
25°	5185.6	5139.7	5099.2	5060.7	5080.9
27.5°	5014.0	4962.9	4922.2	4895.0	4917.2
30°	4828.2	4775.4	4736.2	4719.7	4751.3
32.5°	4631.9	4579.9	4545.4	4547.0	4583.6
35°	4430.5	4375.7	4348.4	4368.6	4411.2
37.5°	4213.8	4167.9	4149.9	4188.5	4231.8
40°	3999.2	3951.4	3946.7	3997.5	4043.1
42.5°	3777.1	3735.1	3740.8	3805.7	3848.2
45°	3547.2	3508.3	3530.0	3601.4	3647.8
47.5°	3321.4	3281.4	3315.1	3393.3	3443.4
50°	3081.3	3048.9	3092.5	3180.0	3225.9
52.5°	2842.7	2811.7	2867.4	2959.6	3003.8
55°	2605.3	2577.4	2639.2	2728.7	2760.5
57.5°	2359.6	2344.0	2407.9	2486.2	2519.4
60°	2115.2	2101.9	2166.3	2238.7	2268.3
62.5°	1870.4	1863.0	1924.2	1982.5	1992.3
65°	1624.0	1620.0	1677.1	1708.0	1713.8
67.5°	1374.7	1377.8	1429.5	1444.9	1443.9
70°	1131.8	1131.8	1178.6	1182.1	1168.4
72.5°	895.8	902.6	932.4	924.3	902.8
75°	680.4	686.6	707.4	679.9	659.5
77.5°	480.1	485.2	493.9	463.8	451.0
80°	307.1	316.5	310.2	295.7	287.0
82.5°	171.5	181.1	175.5	188.6	194.5
85°	79.1	84.8	97.2	111.9	117.9
87.5°	27.0	32.1	39.8	42.4	39.6
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	18.22	19.80	18.58	20.12	20.43	18.64	20.22	19.00	20.53	20.85
	3H	19.66	21.09	20.04	21.42	21.78	20.04	21.47	20.42	21.79	22.16
	4H	20.08	21.42	20.48	21.77	22.14	20.41	21.74	20.81	22.09	22.47
	6H	20.28	21.52	20.69	21.88	22.27	20.56	21.79	20.97	22.16	22.55
	8H	20.31	21.48	20.73	21.87	22.27	20.58	21.76	21.01	22.15	22.55
	12H	20.30	21.43	20.73	21.81	22.24	20.59	21.72	21.02	22.10	22.53
4H	2H	18.81	20.14	19.20	20.49	20.87	19.15	20.48	19.54	20.83	21.21
	3H	20.43	21.54	20.84	21.94	22.34	20.74	21.85	21.15	22.25	22.65
	4H	20.93	21.93	21.36	22.34	22.78	21.18	22.18	21.61	22.60	23.03
	6H	21.20	22.07	21.66	22.51	22.97	21.40	22.27	21.86	22.71	23.17
	8H	21.24	22.05	21.70	22.50	22.96	21.44	22.25	21.90	22.70	23.16
	12H	21.25	21.98	21.73	22.46	22.93	21.47	22.20	21.95	22.67	23.14
8H	4H	21.11	21.92	21.57	22.37	22.83	21.34	22.15	21.80	22.60	23.06
	6H	21.44	22.11	21.93	22.60	23.07	21.61	22.28	22.10	22.77	23.24
	8H	21.50	22.10	22.01	22.61	23.10	21.67	22.27	22.19	22.78	23.27
	12H	21.53	22.06	22.04	22.55	23.12	21.73	22.26	22.24	22.75	23.32
12H	4H	21.11	21.83	21.59	22.31	22.78	21.34	22.06	21.82	22.54	23.01
	6H	21.43	22.03	21.94	22.54	23.02	21.60	22.20	22.11	22.71	23.20
	8H	21.52	22.05	22.03	22.55	23.11	21.70	22.23	22.21	22.72	23.28