

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: P1499674

Luminaire Tested: MAE-G-4-120-3STD-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499674
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-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

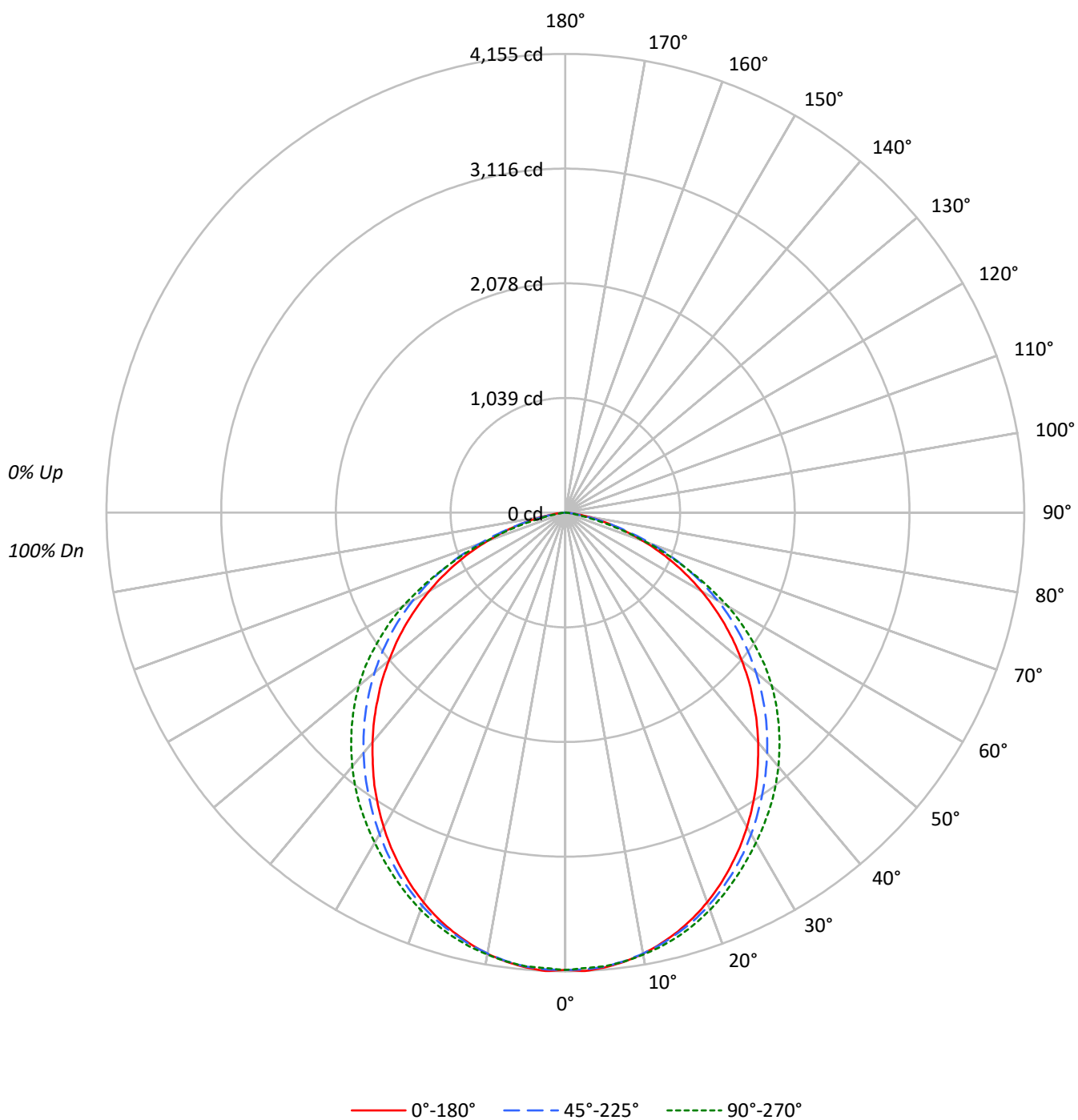
Lumens per Lamp: N/A
Luminaire Lumens: 10498.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 102.4
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	102	98	107	103	100	96	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
5	78	65	56	50	76	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	36	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5573	5573	5573
5°	5585	5574	5571
10°	5544	5541	5554
15°	5473	5491	5531
20°	5378	5427	5484
25°	5253	5337	5421
30°	5111	5227	5364
35°	4950	5108	5323
40°	4770	4992	5270
45°	4576	4869	5203
50°	4364	4719	5110
55°	4129	4536	4913
60°	3832	4286	4585
65°	3460	3909	3927
70°	2954	3282	3052
75°	2320	2394	1877
80°	1514	1232	727
85°	726	486	386

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5203 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.3	3.7
10°-20°	1110.8	10.6
20°-30°	1652.0	15.7
30°-40°	1946.7	18.5
40°-50°	1973.8	18.8
50°-60°	1719.9	16.4
60°-70°	1176.2	11.2
70°-80°	472.5	4.5
80°-90°	54.8	0.5
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°	3154.1	30.0
0°-40°	5100.8	48.6
0°-60°	8794.5	83.8
0°-90°	10498.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10498.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4142	4142	4142	4142	4142	
5°	4135	4110	4127	4122	4125	392
15°	3929	3912	3942	3958	3971	1107
25°	3538	3540	3595	3621	3652	1629
35°	3014	3027	3110	3186	3241	1883
45°	2405	2437	2559	2674	2734	1856
55°	1760	1798	1934	2055	2094	1571
65°	1087	1136	1228	1237	1233	1075
75°	446	476	461	396	361	479
85°	47	42	32	28	25	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4142.0	4142.0	4142.0	4142.0	4142.0
2.5°	4155.4	4127.6	4142.0	4139.1	4128.5
5°	4135.2	4110.3	4126.6	4121.9	4124.7
7.5°	4102.6	4079.8	4096.9	4096.1	4100.7
10°	4057.8	4034.7	4055.9	4059.7	4065.4
12.5°	3998.3	3979.2	4005.1	4012.7	4024.1
15°	3929.3	3912.1	3941.8	3958.1	3970.6
17.5°	3848.9	3834.5	3872.8	3888.2	3905.4
20°	3755.9	3745.6	3790.4	3804.8	3829.8
22.5°	3652.6	3646.9	3693.7	3715.7	3744.5
25°	3538.5	3539.6	3595.1	3621.1	3651.6
27.5°	3418.9	3420.8	3484.1	3520.3	3552.9
30°	3289.6	3295.3	3364.3	3409.4	3452.4
32.5°	3152.7	3164.1	3238.8	3300.2	3348.0
35°	3013.8	3027.1	3109.7	3186.1	3240.7
37.5°	2863.5	2885.5	2978.5	3069.5	3125.8
40°	2716.0	2738.0	2842.3	2942.9	3000.5
42.5°	2563.8	2591.5	2702.6	2814.6	2870.1
45°	2404.8	2437.2	2558.9	2673.9	2734.2
47.5°	2252.4	2281.2	2409.5	2529.3	2591.5
50°	2084.8	2121.2	2254.3	2379.8	2441.2
52.5°	1925.0	1958.4	2095.4	2223.8	2279.3
55°	1760.3	1797.5	1933.6	2055.1	2094.5
57.5°	1591.6	1636.7	1767.9	1869.5	1906.8
60°	1424.1	1469.0	1592.6	1676.0	1703.8
62.5°	1257.3	1305.4	1413.6	1469.0	1469.0
65°	1086.9	1135.8	1227.7	1237.2	1233.4
67.5°	916.5	965.4	1035.3	1017.9	1006.5
70°	750.8	792.9	834.2	802.5	775.8
72.5°	589.9	630.2	636.9	591.0	557.3
75°	446.2	476.1	460.6	395.6	361.1
77.5°	311.2	328.5	295.9	229.9	202.1
80°	195.4	203.0	159.0	112.0	93.8
82.5°	105.4	106.3	69.0	56.5	52.7
85°	47.0	42.1	31.5	27.7	25.0
87.5°	16.3	14.4	11.4	10.6	8.7
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	16.90	18.48	17.26	18.79	19.11	17.88	19.46	18.24	19.78	20.09
	3H	18.30	19.73	18.68	20.05	20.41	19.08	20.50	19.46	20.83	21.19
	4H	18.70	20.03	19.10	20.38	20.76	19.30	20.63	19.70	20.98	21.36
	6H	18.87	20.11	19.29	20.47	20.86	19.32	20.55	19.73	20.91	21.31
	8H	18.89	20.06	19.31	20.45	20.85	19.29	20.47	19.72	20.86	21.26
	12H	18.88	20.00	19.31	20.38	20.81	19.27	20.39	19.70	20.77	21.20
4H	2H	17.57	18.90	17.96	19.25	19.62	18.36	19.69	18.76	20.04	20.42
	3H	19.13	20.24	19.54	20.64	21.04	19.73	20.83	20.14	21.23	21.63
	4H	19.61	20.60	20.04	21.02	21.46	20.00	20.99	20.43	21.41	21.84
	6H	19.85	20.71	20.31	21.15	21.61	20.05	20.91	20.51	21.35	21.81
	8H	19.87	20.68	20.34	21.12	21.59	20.03	20.83	20.49	21.27	21.74
	12H	19.87	20.59	20.36	21.07	21.54	20.00	20.72	20.49	21.20	21.67
8H	4H	19.76	20.56	20.22	21.00	21.47	20.12	20.92	20.58	21.36	21.83
	6H	20.03	20.69	20.53	21.18	21.66	20.18	20.84	20.67	21.33	21.81
	8H	20.07	20.66	20.58	21.17	21.66	20.15	20.75	20.67	21.25	21.74
	12H	20.09	20.61	20.59	21.10	21.66	20.14	20.66	20.65	21.15	21.72
12H	4H	19.74	20.46	20.22	20.93	21.40	20.11	20.82	20.59	21.30	21.77
	6H	20.00	20.59	20.51	21.10	21.59	20.15	20.75	20.67	21.26	21.74
	8H	20.07	20.59	20.58	21.08	21.64	20.15	20.68	20.66	21.17	21.73