

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: P1499314

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499314
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-50-90-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

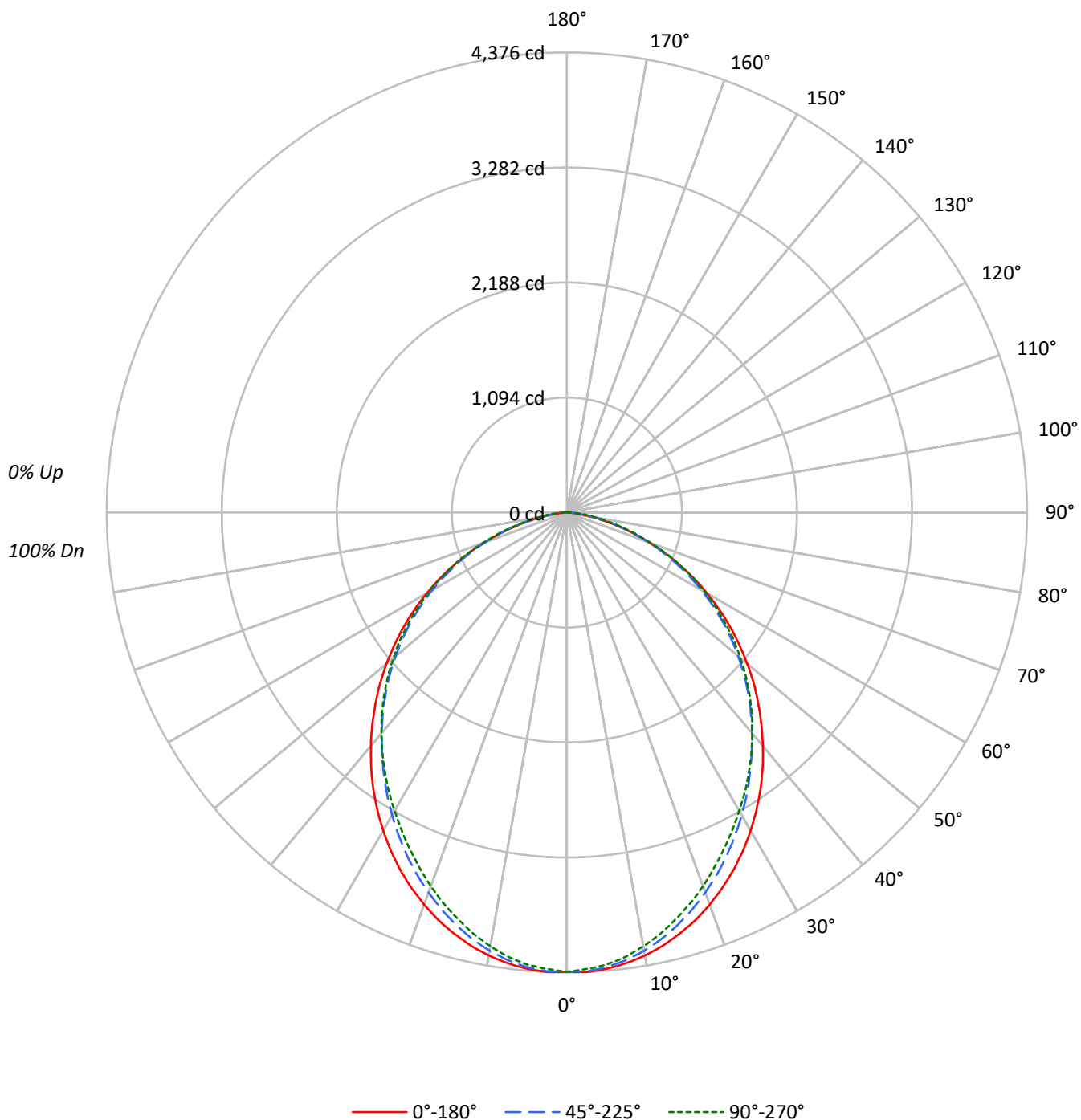
Lumens per Lamp: N/A
Luminaire Lumens: 10513.0 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
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	98	90	84	79	87	82	78		84	79	76		81
3	92	81	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	60	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°	5878	5878	5878
5°	5886	5864	5831
10°	5846	5784	5724
15°	5775	5659	5577
20°	5684	5507	5417
25°	5567	5342	5246
30°	5428	5164	5091
35°	5272	4984	4954
40°	5093	4812	4818
45°	4899	4638	4677
50°	4688	4454	4508
55°	4443	4240	4316
60°	4150	3979	4091
65°	3783	3649	3782
70°	3277	3238	3366
75°	2623	2713	2817
80°	1796	2019	2180
85°	946	1460	1931

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4899 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.3	3.9
10°-20°	1144.5	10.9
20°-30°	1665.2	15.8
30°-40°	1921.7	18.3
40°-50°	1909.1	18.2
50°-60°	1638.8	15.6
60°-70°	1152.7	11.0
70°-80°	555.8	5.3
80°-90°	115.1	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°	3220.0	30.6
0°-40°	5141.6	48.9
0°-60°	8689.5	82.7
0°-90°	10513.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10513.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4368	4368	4368	4368	4368	
5°	4358	4345	4342	4311	4318	413
15°	4146	4114	4063	4003	4004	1169
25°	3750	3693	3598	3534	3533	1726
35°	3210	3134	3034	3006	3016	2006
45°	2575	2502	2438	2444	2458	1986
55°	1894	1833	1807	1828	1840	1691
65°	1188	1149	1146	1173	1188	1175
75°	504	489	522	536	542	543
85°	61	72	95	116	125	90
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4368.4	4368.4	4368.4	4368.4	4368.4
2.5°	4376.2	4366.2	4368.4	4344.3	4346.4
5°	4357.7	4344.8	4341.5	4310.6	4317.6
7.5°	4324.4	4307.7	4295.5	4258.9	4264.5
10°	4278.7	4256.5	4233.4	4187.5	4189.7
12.5°	4219.5	4192.6	4156.1	4101.9	4104.8
15°	4146.2	4114.2	4062.7	4003.2	4003.5
17.5°	4065.0	4028.0	3959.5	3895.3	3899.7
20°	3969.7	3926.9	3846.2	3779.7	3782.9
22.5°	3863.6	3813.9	3727.9	3660.5	3659.2
25°	3749.7	3693.3	3598.4	3534.3	3533.4
27.5°	3626.6	3563.5	3463.8	3403.6	3405.5
30°	3494.0	3426.4	3324.1	3272.6	3276.8
32.5°	3354.6	3283.6	3182.3	3142.0	3151.1
35°	3209.7	3133.7	3034.2	3005.9	3016.2
37.5°	3058.2	2983.1	2887.8	2871.2	2881.7
40°	2899.5	2826.0	2739.7	2730.9	2743.2
42.5°	2738.6	2666.7	2590.2	2589.8	2603.1
45°	2574.7	2502.3	2437.6	2443.7	2457.8
47.5°	2410.4	2338.9	2285.2	2296.2	2309.1
50°	2239.6	2172.3	2127.6	2142.8	2153.7
52.5°	2064.6	2001.9	1968.7	1987.3	2004.4
55°	1894.1	1833.4	1807.3	1827.8	1839.9
57.5°	1717.9	1665.4	1645.4	1666.3	1680.0
60°	1542.2	1492.8	1478.7	1504.0	1520.3
62.5°	1364.7	1319.3	1313.3	1340.3	1355.0
65°	1188.1	1148.7	1146.3	1173.1	1187.8
67.5°	1012.5	977.3	984.2	1015.8	1024.5
70°	833.1	804.5	823.0	849.3	855.6
72.5°	666.0	641.7	667.8	689.6	692.8
75°	504.5	488.8	521.8	536.4	541.8
77.5°	357.7	353.9	381.9	396.6	403.1
80°	231.8	238.9	260.6	278.1	281.4
82.5°	131.9	141.8	162.4	187.9	197.8
85°	61.3	72.1	94.6	115.8	125.1
87.5°	20.7	28.4	40.1	43.8	41.8
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	17.08	18.67	17.45	18.98	19.30	17.06	18.65	17.43	18.96	19.27
	3H	18.56	19.99	18.94	20.32	20.68	18.63	20.06	19.01	20.38	20.74
	4H	19.00	20.34	19.40	20.68	21.06	19.12	20.46	19.52	20.81	21.19
	6H	19.22	20.45	19.63	20.82	21.21	19.41	20.65	19.82	21.02	21.41
	8H	19.25	20.43	19.67	20.82	21.22	19.49	20.67	19.92	21.06	21.46
	12H	19.25	20.38	19.68	20.76	21.19	19.55	20.68	19.98	21.06	21.49
4H	2H	17.61	18.95	18.01	19.30	19.68	17.59	18.93	17.99	19.28	19.66
	3H	19.27	20.39	19.68	20.79	21.19	19.36	20.47	19.77	20.87	21.27
	4H	19.79	20.80	20.23	21.21	21.65	19.95	20.96	20.38	21.37	21.81
	6H	20.09	20.97	20.55	21.41	21.87	20.34	21.21	20.79	21.65	22.11
	8H	20.15	20.96	20.61	21.40	21.87	20.45	21.27	20.91	21.71	22.18
	12H	20.16	20.89	20.64	21.37	21.84	20.54	21.27	21.02	21.74	22.21
8H	4H	20.00	20.82	20.46	21.26	21.73	20.14	20.96	20.61	21.40	21.87
	6H	20.36	21.04	20.86	21.53	22.00	20.61	21.28	21.10	21.77	22.25
	8H	20.44	21.05	20.96	21.56	22.04	20.76	21.37	21.28	21.88	22.36
	12H	20.49	21.02	21.00	21.51	22.08	20.90	21.44	21.41	21.93	22.49
12H	4H	20.01	20.74	20.49	21.22	21.69	20.14	20.87	20.62	21.35	21.82
	6H	20.38	20.98	20.89	21.49	21.98	20.61	21.22	21.12	21.72	22.21
	8H	20.49	21.03	21.00	21.52	22.08	20.81	21.34	21.32	21.83	22.40