

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: P1498045

Luminaire Tested: MAE-G-2-120-1HI-50-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498045
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-2-120-1HI-50-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

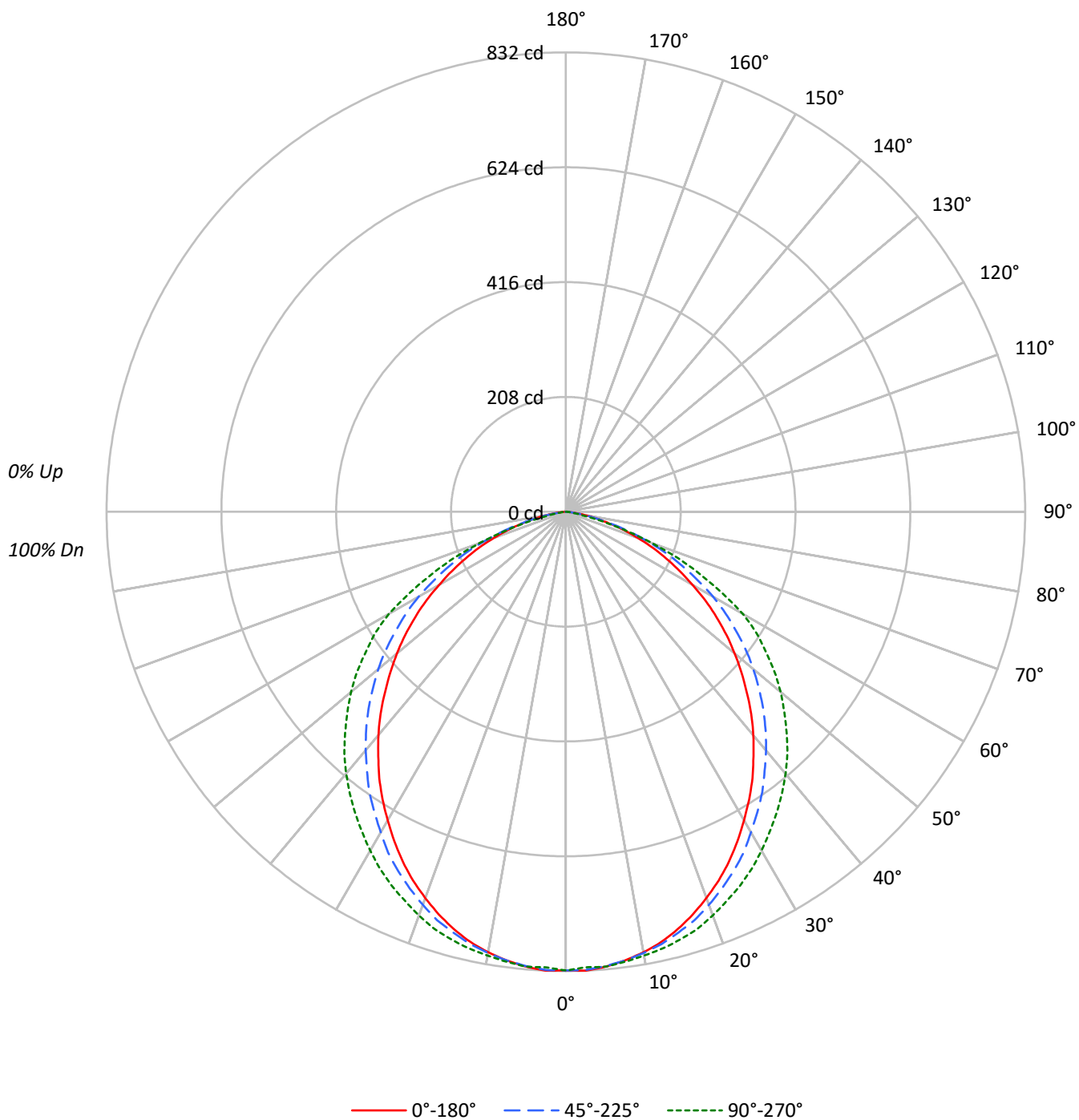
Lumens per Lamp: N/A
Luminaire Lumens: 2091.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 22.6
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

TEST NUMBER: P1498045

CATALOG NUMBER: MAE-G-2-120-1HI-50-VRDCPH

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	74	68	90	80	73	67	77	71	66	75	70	65	72	68	64	62		
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53		
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41		
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2235	2235	2235
5°	2234	2231	2234
10°	2214	2217	2230
15°	2181	2197	2234
20°	2132	2170	2228
25°	2076	2132	2218
30°	2005	2083	2202
35°	1936	2037	2187
40°	1855	1982	2174
45°	1765	1924	2151
50°	1671	1856	2126
55°	1564	1766	2075
60°	1428	1659	1994
65°	1279	1484	1712
70°	1090	1250	1307
75°	845	907	733
80°	556	482	259
85°	296	222	148

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2151 cd/sqm

TEST NUMBER: P1498045

CATALOG NUMBER: MAE-G-2-120-1HI-50-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	3.8
10°-20°	222.9	10.7
20°-30°	331.4	15.9
30°-40°	389.7	18.6
40°-50°	393.3	18.8
50°-60°	341.5	16.3
60°-70°	232.4	11.1
70°-80°	90.5	4.3
80°-90°	10.9	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°	632.8	30.3
0°-40°	1022.4	48.9
0°-60°	1757.2	84.0
0°-90°	2091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2091.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	831	831	831	831	831	
5°	827	826	826	826	827	78
15°	783	784	789	797	802	220
25°	699	703	718	736	747	321
35°	589	596	620	649	666	368
45°	464	476	506	545	565	358
55°	333	344	376	420	442	298
65°	201	210	233	258	269	199
75°	81	86	87	79	70	88
85°	10	10	7	6	5	14
90°	0	0	0	0	0	

TEST NUMBER: P1498045

CATALOG NUMBER: MAE-G-2-120-1HI-50-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	830.6	830.6	830.6	830.6	830.6
2.5°	831.8	831.8	830.6	827.0	825.8
5°	827.0	825.8	825.8	825.8	827.0
7.5°	819.8	819.8	819.8	821.0	822.2
10°	810.2	810.2	811.4	813.8	816.2
12.5°	798.3	799.5	801.9	806.7	810.2
15°	782.8	784.0	788.7	797.1	801.9
17.5°	764.8	768.4	775.6	785.1	792.3
20°	744.5	748.1	757.7	769.6	778.0
22.5°	723.0	726.6	738.5	752.9	762.4
25°	699.1	702.7	718.2	736.2	746.9
27.5°	672.8	677.6	696.7	715.8	729.0
30°	645.3	651.3	670.4	694.3	708.7
32.5°	617.8	625.0	645.3	672.8	687.2
35°	589.2	596.3	620.2	648.9	665.6
37.5°	558.1	566.5	591.6	626.2	642.9
40°	528.2	536.6	564.1	601.1	619.0
42.5°	497.1	506.7	535.4	573.6	593.9
45°	463.7	475.6	505.5	544.9	565.3
47.5°	431.4	442.2	474.4	515.1	536.6
50°	399.1	411.1	443.4	485.2	507.9
52.5°	366.9	377.6	411.1	452.9	476.8
55°	333.4	344.2	376.4	419.5	442.2
57.5°	300.0	313.1	343.0	384.8	409.9
60°	265.3	277.3	308.3	350.2	370.5
62.5°	233.0	243.8	270.1	309.5	319.1
65°	200.8	210.3	233.0	258.1	268.9
67.5°	170.9	178.1	198.4	215.1	219.9
70°	138.6	145.8	158.9	168.5	166.1
72.5°	109.9	114.7	123.1	121.9	115.9
75°	81.3	86.0	87.2	78.9	70.5
77.5°	57.4	59.8	56.2	44.2	35.9
80°	35.9	37.0	31.1	19.1	16.7
82.5°	20.3	20.3	14.3	12.0	9.6
85°	9.6	9.6	7.2	6.0	4.8
87.5°	3.6	3.6	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1498045

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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	13.40	14.98	13.76	15.29	15.61	14.98	16.56	15.34	16.87	17.19
	3H	14.73	16.15	15.11	16.48	16.84	16.25	17.66	16.62	17.99	18.35
	4H	15.10	16.43	15.50	16.78	17.16	16.44	17.77	16.84	18.12	18.50
	6H	15.27	16.49	15.68	16.86	17.25	16.44	17.67	16.85	18.03	18.42
	8H	15.28	16.45	15.71	16.84	17.24	16.41	17.58	16.84	17.97	18.37
	12H	15.27	16.39	15.70	16.78	17.20	16.39	17.51	16.82	17.89	18.32
4H	2H	14.06	15.39	14.46	15.74	16.12	15.35	16.68	15.75	17.03	17.41
	3H	15.56	16.66	15.97	17.06	17.46	16.79	17.89	17.20	18.29	18.69
	4H	16.00	16.99	16.43	17.41	17.84	17.05	18.03	17.48	18.45	18.89
	6H	16.23	17.09	16.68	17.53	17.99	17.07	17.93	17.53	18.37	18.83
	8H	16.25	17.05	16.72	17.50	17.96	17.05	17.85	17.51	18.29	18.76
	12H	16.26	16.97	16.74	17.45	17.92	17.02	17.74	17.51	18.22	18.69
8H	4H	16.16	16.96	16.62	17.40	17.87	17.13	17.93	17.59	18.37	18.84
	6H	16.42	17.08	16.92	17.57	18.05	17.16	17.82	17.66	18.31	18.79
	8H	16.46	17.05	16.97	17.56	18.05	17.14	17.73	17.65	18.24	18.72
	12H	16.48	17.00	16.99	17.49	18.06	17.12	17.64	17.63	18.13	18.70
12H	4H	16.14	16.86	16.62	17.33	17.81	17.12	17.83	17.60	18.31	18.78
	6H	16.39	16.98	16.90	17.49	17.98	17.14	17.73	17.65	18.24	18.72
	8H	16.46	16.98	16.97	17.47	18.03	17.13	17.65	17.64	18.15	18.71