

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: P1498027

Luminaire Tested: MAE-G-2-120-1HI-30-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498027
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-30-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

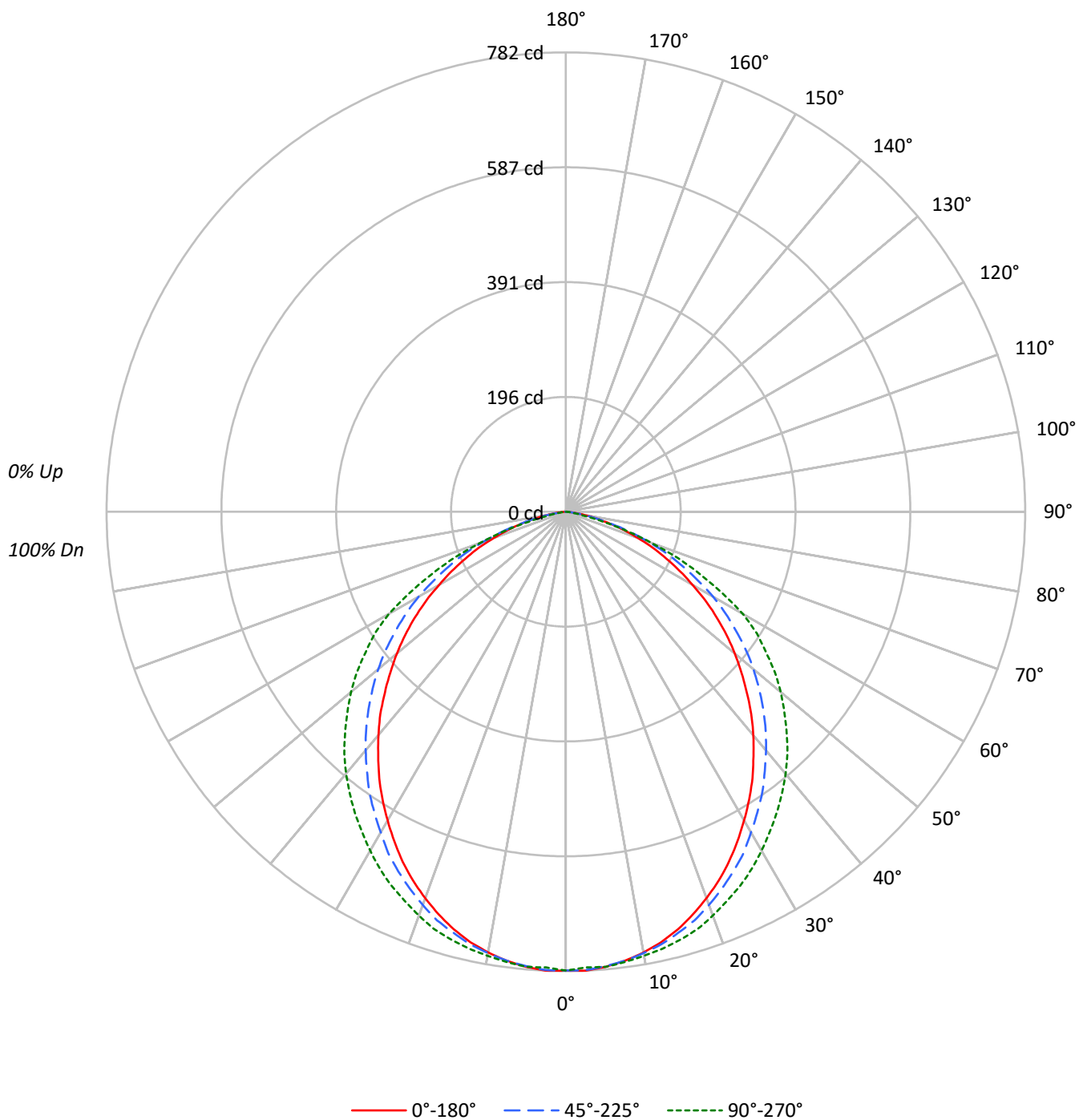
Lumens per Lamp: N/A
Luminaire Lumens: 1966.0 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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: P1498027

CATALOG NUMBER: MAE-G-2-120-1HI-30-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				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		86
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		73
3	92	82	74	68	90	80	73	67	77	71	66		75	70	65		62
4	84	73	65	58	82	72	64	58	69	62	57		67	61	56		53
5	78	65	57	50	76	64	56	50	62	55	49		60	54	49		46
6	72	59	50	44	70	58	50	44	56	49	43		55	48	43		41
7	67	54	45	39	65	53	45	39	51	44	39		50	43	38		36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		29
10	54	41	34	29	53	41	34	28	40	33	28		39	33	28		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2101	2101	2101
5°	2100	2097	2100
10°	2082	2085	2097
15°	2050	2066	2100
20°	2005	2040	2095
25°	1952	2005	2085
30°	1885	1959	2070
35°	1820	1916	2056
40°	1744	1863	2044
45°	1659	1809	2023
50°	1571	1745	1999
55°	1471	1660	1950
60°	1342	1560	1875
65°	1202	1395	1610
70°	1025	1175	1229
75°	794	853	689
80°	522	453	243
85°	278	207	139

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2023 cd/sqm

TEST NUMBER: P1498027

CATALOG NUMBER: MAE-G-2-120-1HI-30-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	3.8
10°-20°	209.6	10.7
20°-30°	311.6	15.9
30°-40°	366.4	18.6
40°-50°	369.8	18.8
50°-60°	321.1	16.3
60°-70°	218.5	11.1
70°-80°	85.1	4.3
80°-90°	10.2	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°	594.9	30.3
0°-40°	961.3	48.9
0°-60°	1652.2	84.0
0°-90°	1966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1966.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	781	781	781	781	781	
5°	778	776	776	776	778	74
15°	736	737	742	749	754	207
25°	657	661	675	692	702	302
35°	554	561	583	610	626	346
45°	436	447	475	512	532	337
55°	314	324	354	394	416	280
65°	189	198	219	243	253	187
75°	76	81	82	74	66	83
85°	9	9	7	6	4	13
90°	0	0	0	0	0	

TEST NUMBER: P1498027

CATALOG NUMBER: MAE-G-2-120-1HI-30-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	780.9	780.9	780.9	780.9	780.9
2.5°	782.0	782.0	780.9	777.5	776.4
5°	777.5	776.4	776.4	776.4	777.5
7.5°	770.8	770.8	770.8	771.9	773.0
10°	761.8	761.8	762.9	765.2	767.4
12.5°	750.6	751.7	753.9	758.4	761.8
15°	736.0	737.1	741.6	749.4	753.9
17.5°	719.1	722.5	729.2	738.2	745.0
20°	700.0	703.4	712.4	723.6	731.5
22.5°	679.8	683.2	694.4	707.9	716.9
25°	657.3	660.7	675.3	692.1	702.3
27.5°	632.6	637.1	655.1	673.0	685.4
30°	606.8	612.4	630.3	652.8	666.3
32.5°	580.9	587.6	606.8	632.6	646.1
35°	553.9	560.7	583.2	610.1	625.9
37.5°	524.7	532.6	556.2	588.8	604.5
40°	496.6	504.5	530.3	565.2	582.0
42.5°	467.4	476.4	503.4	539.3	558.4
45°	436.0	447.2	475.3	512.4	531.5
47.5°	405.6	415.7	446.1	484.3	504.5
50°	375.3	386.5	416.9	456.2	477.5
52.5°	344.9	355.1	386.5	425.8	448.3
55°	313.5	323.6	353.9	394.4	415.7
57.5°	282.0	294.4	322.5	361.8	385.4
60°	249.4	260.7	289.9	329.2	348.3
62.5°	219.1	229.2	253.9	291.0	300.0
65°	188.8	197.8	219.1	242.7	252.8
67.5°	160.7	167.4	186.5	202.3	206.7
70°	130.3	137.1	149.4	158.4	156.2
72.5°	103.4	107.9	115.7	114.6	109.0
75°	76.4	80.9	82.0	74.2	66.3
77.5°	53.9	56.2	52.8	41.6	33.7
80°	33.7	34.8	29.2	18.0	15.7
82.5°	19.1	19.1	13.5	11.2	9.0
85°	9.0	9.0	6.7	5.6	4.5
87.5°	3.4	3.4	2.2	2.2	2.2
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	13.18	14.76	13.55	15.08	15.39	14.76	16.34	15.13	16.66	16.97
	3H	14.52	15.94	14.90	16.26	16.63	16.03	17.45	16.41	17.78	18.14
	4H	14.89	16.22	15.29	16.57	16.94	16.23	17.56	16.63	17.91	18.28
	6H	15.05	16.28	15.46	16.65	17.04	16.23	17.45	16.64	17.82	18.21
	8H	15.07	16.24	15.49	16.63	17.03	16.20	17.37	16.62	17.76	18.16
	12H	15.06	16.18	15.49	16.56	16.99	16.17	17.29	16.60	17.67	18.10
4H	2H	13.85	15.18	14.25	15.53	15.90	15.14	16.47	15.54	16.82	17.20
	3H	15.35	16.45	15.76	16.85	17.25	16.58	17.68	16.99	18.08	18.48
	4H	15.79	16.78	16.22	17.19	17.63	16.83	17.82	17.26	18.24	18.67
	6H	16.01	16.87	16.47	17.31	17.77	16.86	17.72	17.32	18.16	18.62
	8H	16.04	16.84	16.50	17.28	17.75	16.83	17.63	17.29	18.08	18.54
	12H	16.04	16.76	16.52	17.23	17.71	16.81	17.53	17.29	18.00	18.47
8H	4H	15.95	16.75	16.41	17.19	17.66	16.92	17.72	17.38	18.16	18.63
	6H	16.21	16.86	16.70	17.36	17.83	16.95	17.61	17.44	18.10	18.57
	8H	16.25	16.84	16.76	17.35	17.83	16.92	17.51	17.44	18.02	18.51
	12H	16.27	16.79	16.78	17.28	17.84	16.91	17.43	17.42	17.92	18.48
12H	4H	15.93	16.64	16.41	17.12	17.59	16.90	17.62	17.38	18.09	18.56
	6H	16.18	16.77	16.69	17.28	17.76	16.92	17.51	17.43	18.02	18.51
	8H	16.25	16.76	16.75	17.26	17.82	16.92	17.44	17.43	17.93	18.50