

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: P1498031

Luminaire Tested: MAE-G-2-120-1HI-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498031
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-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

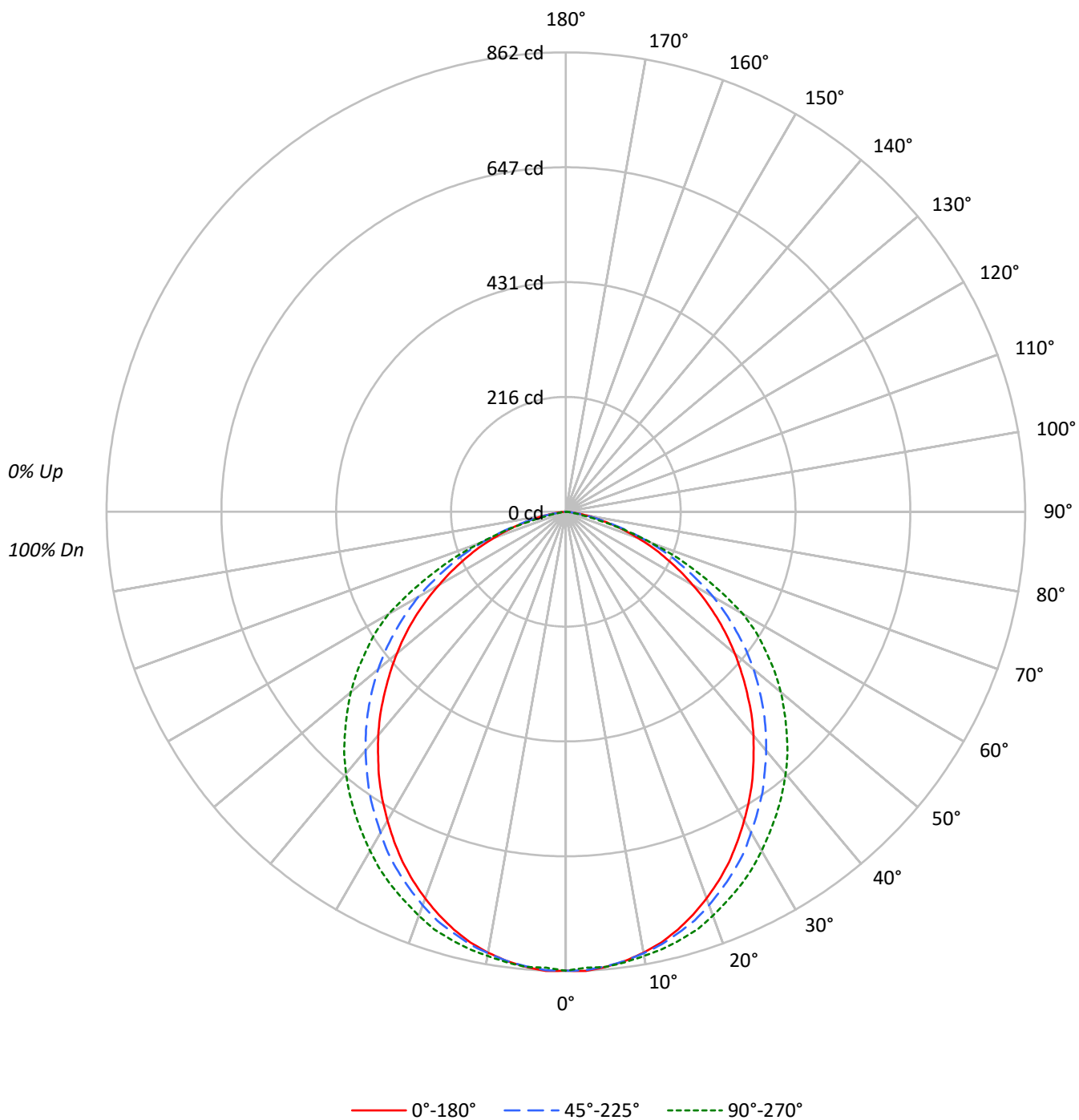
Lumens per Lamp: N/A
Luminaire Lumens: 2168.0 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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: P1498031

CATALOG NUMBER: MAE-G-2-120-1HI-35-90-WDDCPH

Luminous Intensity Polar Plot



TEST NUMBER: P1498031

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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°	2317	2317	2317
5°	2316	2313	2316
10°	2296	2299	2313
15°	2261	2278	2316
20°	2210	2250	2310
25°	2152	2211	2299
30°	2079	2160	2283
35°	2007	2113	2267
40°	1924	2054	2255
45°	1830	1995	2230
50°	1732	1924	2205
55°	1622	1831	2151
60°	1481	1721	2067
65°	1326	1538	1775
70°	1131	1297	1355
75°	876	941	760
80°	576	499	268
85°	306	228	154

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2230 cd/sqm

TEST NUMBER: P1498031

CATALOG NUMBER: MAE-G-2-120-1HI-35-90-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	3.8
10°-20°	231.1	10.7
20°-30°	343.6	15.9
30°-40°	404.0	18.6
40°-50°	407.8	18.8
50°-60°	354.1	16.3
60°-70°	241.0	11.1
70°-80°	93.9	4.3
80°-90°	11.2	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°	656.1	30.3
0°-40°	1060.1	48.9
0°-60°	1821.9	84.0
0°-90°	2168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2168.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	857	856	856	856	857	81
15°	812	813	818	826	831	228
25°	725	729	745	763	774	333
35°	611	618	643	673	690	381
45°	481	493	524	565	586	371
55°	346	357	390	435	458	309
65°	208	218	242	268	279	207
75°	84	89	90	82	73	92
85°	10	10	7	6	5	14
90°	0	0	0	0	0	

TEST NUMBER: P1498031

CATALOG NUMBER: MAE-G-2-120-1HI-35-90-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	861.1	861.1	861.1	861.1	861.1
2.5°	862.4	862.4	861.1	857.4	856.2
5°	857.4	856.2	856.2	856.2	857.4
7.5°	850.0	850.0	850.0	851.2	852.5
10°	840.1	840.1	841.3	843.8	846.3
12.5°	827.7	828.9	831.4	836.4	840.1
15°	811.6	812.8	817.8	826.5	831.4
17.5°	793.0	796.7	804.1	814.1	821.5
20°	771.9	775.7	785.6	798.0	806.6
22.5°	749.6	753.3	765.7	780.6	790.5
25°	724.8	728.6	744.7	763.3	774.4
27.5°	697.6	702.5	722.4	742.2	755.8
30°	669.1	675.3	695.1	719.9	734.8
32.5°	640.6	648.0	669.1	697.6	712.5
35°	610.9	618.3	643.1	672.8	690.2
37.5°	578.6	587.3	613.3	649.3	666.6
40°	547.7	556.3	584.8	623.2	641.8
42.5°	515.4	525.4	555.1	594.7	615.8
45°	480.8	493.1	524.1	565.0	586.1
47.5°	447.3	458.5	491.9	534.0	556.3
50°	413.8	426.2	459.7	503.1	526.6
52.5°	380.4	391.5	426.2	469.6	494.4
55°	345.7	356.8	390.3	434.9	458.5
57.5°	311.0	324.6	355.6	399.0	425.0
60°	275.1	287.5	319.7	363.0	384.1
62.5°	241.6	252.8	280.0	320.9	330.8
65°	208.2	218.1	241.6	267.6	278.8
67.5°	177.2	184.6	205.7	223.0	228.0
70°	143.7	151.2	164.8	174.7	172.2
72.5°	114.0	118.9	127.6	126.4	120.2
75°	84.3	89.2	90.5	81.8	73.1
77.5°	59.5	62.0	58.2	45.8	37.2
80°	37.2	38.4	32.2	19.8	17.3
82.5°	21.1	21.1	14.9	12.4	9.9
85°	9.9	9.9	7.4	6.2	5.0
87.5°	3.7	3.7	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1498031

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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	13.52	15.10	13.89	15.42	15.73	15.10	16.68	15.47	17.00	17.31
	3H	14.86	16.28	15.24	16.60	16.97	16.37	17.79	16.75	18.12	18.48
	4H	15.23	16.56	15.63	16.90	17.28	16.57	17.90	16.97	18.25	18.62
	6H	15.39	16.62	15.80	16.98	17.38	16.56	17.79	16.98	18.16	18.55
	8H	15.41	16.58	15.83	16.97	17.37	16.54	17.71	16.96	18.10	18.50
	12H	15.40	16.52	15.83	16.90	17.33	16.51	17.63	16.94	18.01	18.44
4H	2H	14.19	15.52	14.59	15.87	16.24	15.48	16.81	15.88	17.16	17.54
	3H	15.69	16.79	16.10	17.19	17.59	16.92	18.02	17.33	18.42	18.82
	4H	16.13	17.12	16.56	17.53	17.97	17.17	18.16	17.60	18.58	19.01
	6H	16.35	17.21	16.81	17.65	18.11	17.20	18.06	17.65	18.50	18.96
	8H	16.38	17.18	16.84	17.62	18.09	17.17	17.97	17.63	18.42	18.88
	12H	16.38	17.10	16.86	17.57	18.05	17.15	17.87	17.63	18.34	18.81
8H	4H	16.29	17.09	16.75	17.53	18.00	17.26	18.06	17.72	18.50	18.97
	6H	16.55	17.20	17.04	17.70	18.17	17.29	17.95	17.78	18.44	18.91
	8H	16.59	17.18	17.10	17.69	18.17	17.26	17.85	17.78	18.36	18.85
	12H	16.61	17.13	17.12	17.62	18.18	17.25	17.77	17.76	18.26	18.82
12H	4H	16.27	16.98	16.75	17.46	17.93	17.24	17.96	17.72	18.43	18.90
	6H	16.52	17.11	17.03	17.62	18.10	17.26	17.85	17.77	18.36	18.85
	8H	16.59	17.10	17.09	17.60	18.16	17.26	17.78	17.77	18.27	18.83