

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: P1498217

Luminaire Tested: MAE-G-2-120-1STD-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498217
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-2-120-1STD-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

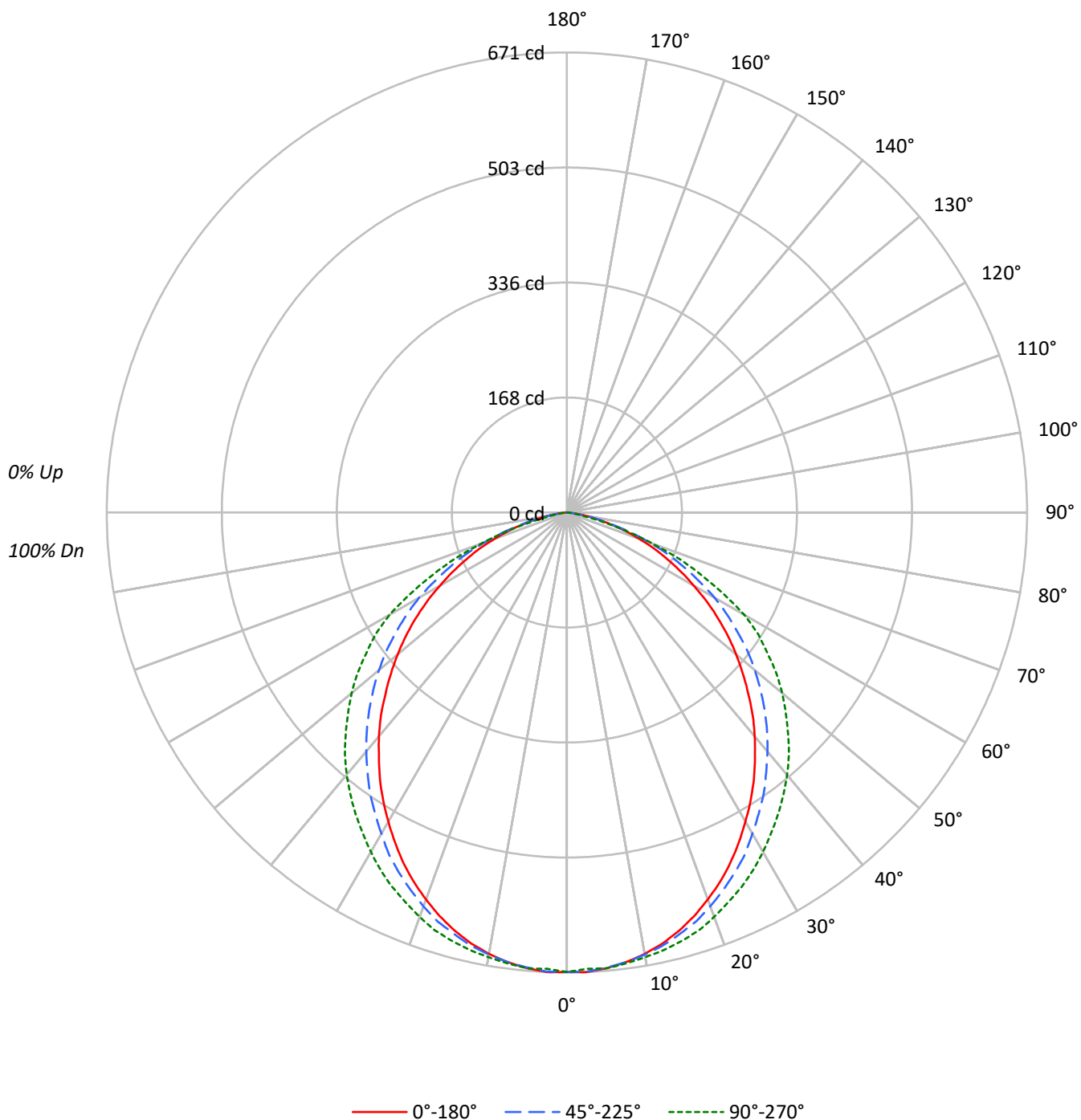
Lumens per Lamp: N/A
Luminaire Lumens: 1687.0 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 17.4
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				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°	1803	1803	1803
5°	1802	1800	1802
10°	1786	1789	1799
15°	1759	1773	1802
20°	1720	1751	1798
25°	1675	1721	1789
30°	1618	1681	1776
35°	1561	1644	1764
40°	1497	1599	1754
45°	1424	1552	1735
50°	1348	1497	1716
55°	1262	1425	1673
60°	1152	1339	1609
65°	1032	1197	1381
70°	880	1009	1054
75°	682	732	592
80°	448	389	209
85°	238	179	120

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1735 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	3.8
10°-20°	179.8	10.7
20°-30°	267.4	15.9
30°-40°	314.4	18.6
40°-50°	317.3	18.8
50°-60°	275.5	16.3
60°-70°	187.5	11.1
70°-80°	73.0	4.3
80°-90°	8.7	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°	510.5	30.3
0°-40°	824.9	48.9
0°-60°	1417.7	84.0
0°-90°	1687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1687.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	670	670	670	670	670	
5°	667	666	666	666	667	63
15°	632	632	636	643	647	178
25°	564	567	580	594	603	259
35°	475	481	500	524	537	297
45°	374	384	408	440	456	289
55°	269	278	304	338	357	240
65°	162	170	188	208	217	161
75°	66	69	70	64	57	71
85°	8	8	6	5	4	11
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	670.1	670.1	670.1	670.1	670.1
2.5°	671.1	671.1	670.1	667.2	666.2
5°	667.2	666.2	666.2	666.2	667.2
7.5°	661.4	661.4	661.4	662.4	663.3
10°	653.7	653.7	654.7	656.6	658.5
12.5°	644.1	645.0	646.9	650.8	653.7
15°	631.5	632.5	636.3	643.1	646.9
17.5°	617.1	620.0	625.7	633.5	639.2
20°	600.7	603.6	611.3	620.9	627.7
22.5°	583.3	586.2	595.8	607.4	615.1
25°	564.0	566.9	579.5	593.9	602.6
27.5°	542.8	546.7	562.1	577.5	588.1
30°	520.6	525.5	540.9	560.2	571.7
32.5°	498.5	504.3	520.6	542.8	554.4
35°	475.3	481.1	500.4	523.5	537.0
37.5°	450.3	457.0	477.3	505.2	518.7
40°	426.2	432.9	455.1	485.0	499.4
42.5°	401.1	408.8	431.9	462.8	479.2
45°	374.1	383.7	407.8	439.7	456.0
47.5°	348.1	356.7	382.8	415.6	432.9
50°	322.0	331.7	357.7	391.4	409.8
52.5°	296.0	304.7	331.7	365.4	384.7
55°	269.0	277.7	303.7	338.4	356.7
57.5°	242.0	252.6	276.7	310.5	330.7
60°	214.0	223.7	248.8	282.5	298.9
62.5°	188.0	196.7	217.9	249.7	257.4
65°	162.0	169.7	188.0	208.3	216.9
67.5°	137.9	143.7	160.1	173.5	177.4
70°	111.8	117.6	128.2	135.9	134.0
72.5°	88.7	92.6	99.3	98.3	93.5
75°	65.6	69.4	70.4	63.6	56.9
77.5°	46.3	48.2	45.3	35.7	28.9
80°	28.9	29.9	25.1	15.4	13.5
82.5°	16.4	16.4	11.6	9.6	7.7
85°	7.7	7.7	5.8	4.8	3.9
87.5°	2.9	2.9	1.9	1.9	1.9
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	12.65	14.23	13.02	14.54	14.86	14.23	15.81	14.60	16.13	16.44
	3H	13.99	15.41	14.37	15.73	16.09	15.50	16.92	15.88	17.25	17.61
	4H	14.36	15.69	14.75	16.03	16.41	15.70	17.03	16.09	17.37	17.75
	6H	14.52	15.75	14.93	16.11	16.50	15.69	16.92	16.10	17.29	17.68
	8H	14.53	15.70	14.96	16.09	16.49	15.67	16.84	16.09	17.23	17.63
	12H	14.53	15.65	14.96	16.03	16.46	15.64	16.76	16.07	17.14	17.57
4H	2H	13.32	14.65	13.72	14.99	15.37	14.61	15.94	15.01	16.29	16.66
	3H	14.81	15.92	15.22	16.31	16.72	16.05	17.15	16.46	17.55	17.95
	4H	15.26	16.25	15.69	16.66	17.10	16.30	17.29	16.73	17.70	18.14
	6H	15.48	16.34	15.94	16.78	17.24	16.33	17.19	16.78	17.63	18.09
	8H	15.51	16.31	15.97	16.75	17.22	16.30	17.10	16.76	17.54	18.01
	12H	15.51	16.23	15.99	16.70	17.17	16.28	16.99	16.76	17.47	17.94
8H	4H	15.41	16.22	15.88	16.66	17.13	16.38	17.18	16.85	17.63	18.09
	6H	15.67	16.33	16.17	16.82	17.30	16.42	17.08	16.91	17.57	18.04
	8H	15.72	16.31	16.23	16.81	17.30	16.39	16.98	16.90	17.49	17.98
	12H	15.74	16.26	16.25	16.75	17.31	16.38	16.89	16.88	17.39	17.95
12H	4H	15.40	16.11	15.88	16.59	17.06	16.37	17.08	16.85	17.56	18.03
	6H	15.65	16.24	16.16	16.74	17.23	16.39	16.98	16.90	17.49	17.98
	8H	15.71	16.23	16.22	16.73	17.29	16.39	16.91	16.90	17.40	17.96