

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: P1498805

Luminaire Tested: MAE-G-2-120-3STD-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3STD-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

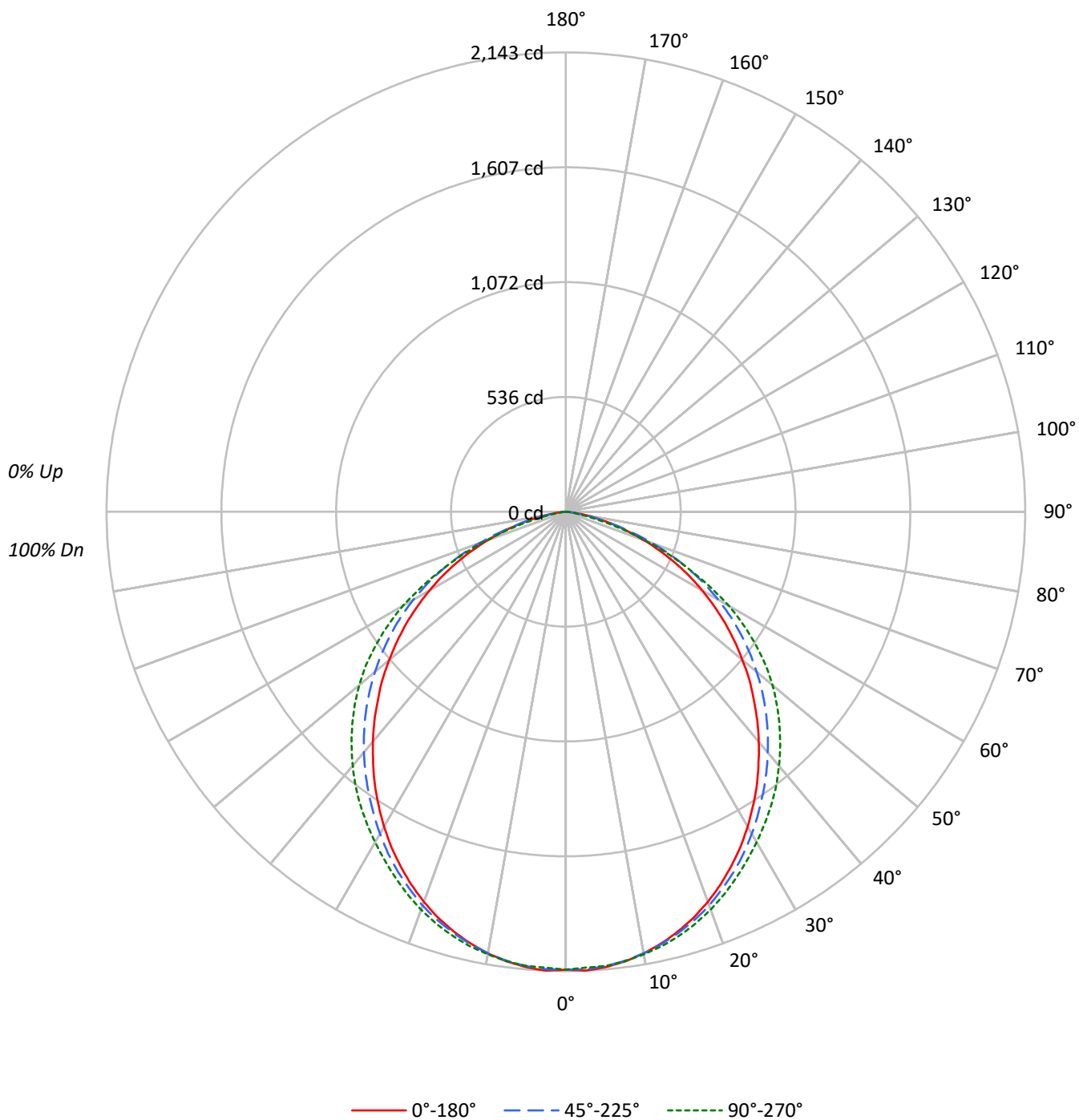
Lumens per Lamp: N/A
Luminaire Lumens: 5413.0 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 52.3
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: P1498805

CATALOG NUMBER: MAE-G-2-120-3STD-40-90-WDDCPH

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	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	65	59	55	53		
5	78	65	56	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	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5747	5747	5747
5°	5760	5747	5745
10°	5717	5714	5728
15°	5644	5662	5704
20°	5546	5597	5655
25°	5417	5504	5590
30°	5271	5390	5531
35°	5105	5267	5489
40°	4919	5148	5435
45°	4719	5021	5365
50°	4500	4866	5269
55°	4258	4678	5067
60°	3952	4420	4728
65°	3569	4031	4050
70°	3046	3384	3147
75°	2392	2469	1936
80°	1561	1271	750
85°	747	503	398

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5365 cd/sqm

TEST NUMBER: P1498805

CATALOG NUMBER: MAE-G-2-120-3STD-40-90-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.7	3.7
10°-20°	572.7	10.6
20°-30°	851.8	15.7
30°-40°	1003.8	18.5
40°-50°	1017.7	18.8
50°-60°	886.8	16.4
60°-70°	606.5	11.2
70°-80°	243.6	4.5
80°-90°	28.3	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°	1626.3	30.0
0°-40°	2630.1	48.6
0°-60°	4534.6	83.8
0°-90°	5413.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5413.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2136	2136	2136	2136	2136	
5°	2132	2119	2128	2125	2127	202
15°	2026	2017	2032	2041	2047	571
25°	1824	1825	1854	1867	1883	840
35°	1554	1561	1603	1643	1671	971
45°	1240	1257	1319	1379	1410	957
55°	908	927	997	1060	1080	810
65°	560	586	633	638	636	554
75°	230	246	238	204	186	247
85°	24	22	16	14	13	37
90°	0	0	0	0	0	

TEST NUMBER: P1498805

CATALOG NUMBER: MAE-G-2-120-3STD-40-90-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2135.7	2135.7	2135.7	2135.7	2135.7
2.5°	2142.6	2128.3	2135.7	2134.2	2128.7
5°	2132.2	2119.3	2127.7	2125.3	2126.8
7.5°	2115.4	2103.6	2112.5	2112.0	2114.4
10°	2092.3	2080.4	2091.3	2093.3	2096.2
12.5°	2061.6	2051.8	2065.1	2069.0	2074.9
15°	2026.0	2017.2	2032.5	2040.9	2047.3
17.5°	1984.6	1977.1	1996.9	2004.9	2013.7
20°	1936.6	1931.3	1954.4	1961.9	1974.7
22.5°	1883.4	1880.4	1904.6	1915.9	1930.7
25°	1824.5	1825.1	1853.7	1867.1	1882.8
27.5°	1762.9	1763.9	1796.5	1815.2	1832.0
30°	1696.2	1699.1	1734.7	1758.0	1780.1
32.5°	1625.6	1631.5	1670.0	1701.7	1726.3
35°	1554.0	1560.9	1603.4	1642.8	1671.0
37.5°	1476.5	1487.8	1535.8	1582.7	1611.7
40°	1400.4	1411.8	1465.6	1517.4	1547.1
42.5°	1321.9	1336.2	1393.5	1451.3	1479.9
45°	1240.0	1256.7	1319.4	1378.7	1409.8
47.5°	1161.4	1176.2	1242.4	1304.2	1336.2
50°	1075.0	1093.7	1162.4	1227.1	1258.7
52.5°	992.5	1009.8	1080.4	1146.7	1175.3
55°	907.6	926.8	997.0	1059.7	1080.0
57.5°	820.6	843.9	911.6	964.0	983.2
60°	734.3	757.5	821.2	864.2	878.5
62.5°	648.3	673.1	728.9	757.5	757.5
65°	560.5	585.7	633.0	637.9	636.0
67.5°	472.6	497.8	533.8	524.9	519.0
70°	387.1	408.9	430.1	413.8	400.0
72.5°	304.2	324.9	328.4	304.7	287.4
75°	230.1	245.5	237.5	204.0	186.2
77.5°	160.4	169.4	152.6	118.5	104.2
80°	100.7	104.7	82.0	57.7	48.4
82.5°	54.4	54.8	35.6	29.1	27.2
85°	24.2	21.7	16.3	14.3	12.9
87.5°	8.4	7.4	5.9	5.5	4.5
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	17.00	18.59	17.37	18.90	19.21	17.99	19.57	18.35	19.88	20.20
	3H	18.41	19.83	18.79	20.16	20.52	19.19	20.61	19.57	20.94	21.30
	4H	18.81	20.14	19.20	20.49	20.86	19.41	20.74	19.81	21.09	21.47
	6H	18.98	20.21	19.39	20.58	20.97	19.42	20.66	19.84	21.02	21.41
	8H	18.99	20.17	19.42	20.56	20.96	19.40	20.57	19.83	20.96	21.36
	12H	18.99	20.11	19.42	20.49	20.92	19.38	20.50	19.81	20.88	21.31
4H	2H	17.67	19.01	18.07	19.35	19.73	18.46	19.80	18.86	20.15	20.52
	3H	19.24	20.35	19.65	20.75	21.15	19.83	20.94	20.24	21.34	21.74
	4H	19.72	20.71	20.15	21.13	21.56	20.11	21.10	20.54	21.51	21.95
	6H	19.96	20.82	20.41	21.26	21.72	20.16	21.02	20.61	21.46	21.92
	8H	19.98	20.79	20.44	21.23	21.70	20.13	20.94	20.59	21.38	21.85
	12H	19.98	20.70	20.46	21.18	21.65	20.11	20.83	20.59	21.31	21.78
8H	4H	19.86	20.67	20.33	21.11	21.58	20.22	21.03	20.69	21.47	21.94
	6H	20.14	20.80	20.63	21.29	21.77	20.28	20.95	20.78	21.44	21.91
	8H	20.18	20.77	20.69	21.28	21.77	20.26	20.85	20.77	21.36	21.85
	12H	20.19	20.71	20.70	21.21	21.77	20.25	20.77	20.76	21.26	21.82
12H	4H	19.85	20.56	20.33	21.04	21.51	20.21	20.93	20.69	21.41	21.88
	6H	20.11	20.70	20.62	21.21	21.70	20.26	20.85	20.77	21.36	21.85
	8H	20.17	20.70	20.68	21.19	21.75	20.26	20.78	20.77	21.27	21.84