

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: P1498544

Luminaire Tested: MAE-G-2-120-2STD-HI-40-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2STD-HI-40-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

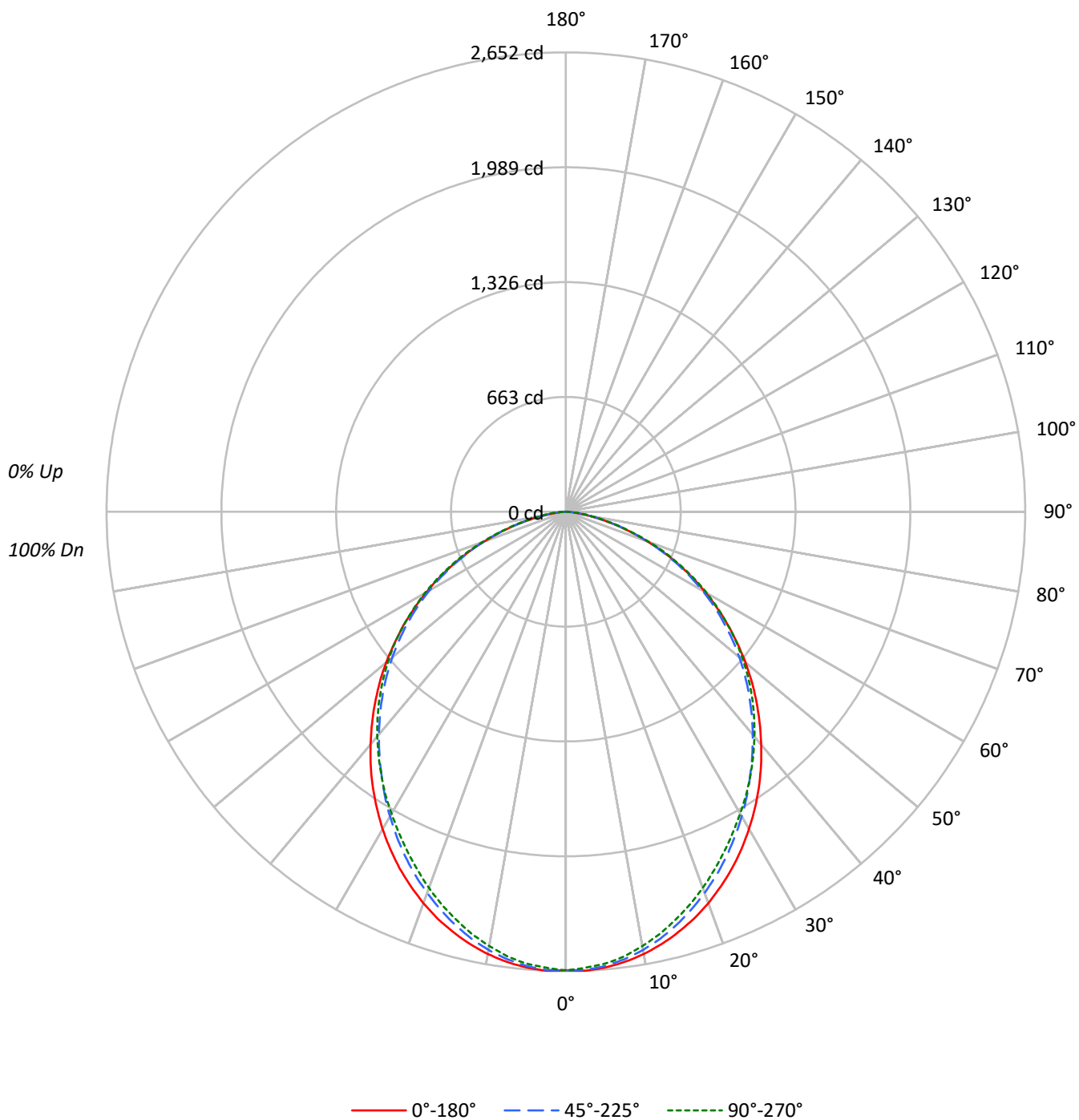
Lumens per Lamp: N/A
Luminaire Lumens: 6410.1 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 80
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: P1498544

CATALOG NUMBER: MAE-G-2-120-2STD-HI-40-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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	85	79	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	61	56		64
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7124	7124	7124
5°	7134	7109	7074
10°	7085	7019	6957
15°	6998	6878	6796
20°	6886	6705	6618
25°	6742	6516	6426
30°	6573	6310	6253
35°	6381	6098	6101
40°	6161	5897	5949
45°	5925	5693	5790
50°	5667	5474	5594
55°	5370	5217	5360
60°	5012	4901	5065
65°	4562	4488	4632
70°	3946	3947	4050
75°	3150	3248	3287
80°	2145	2332	2427
85°	1118	1621	2109

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5925 cd/sqm

TEST NUMBER: P1498544

CATALOG NUMBER: MAE-G-2-120-2STD-HI-40-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.8	3.9
10°-20°	695.5	10.9
20°-30°	1014.7	15.8
30°-40°	1174.1	18.3
40°-50°	1169.5	18.2
50°-60°	1005.8	15.7
60°-70°	704.4	11.0
70°-80°	331.9	5.2
80°-90°	65.3	1.0
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°	1959.0	30.6
0°-40°	3133.1	48.9
0°-60°	5308.4	82.8
0°-90°	6410.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6410.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2647	2647	2647	2647	2647	
5°	2641	2632	2632	2615	2619	251
15°	2512	2494	2469	2438	2440	708
25°	2271	2241	2194	2163	2164	1045
35°	1942	1903	1856	1848	1857	1214
45°	1557	1521	1496	1509	1521	1201
55°	1144	1115	1112	1132	1142	1022
65°	716	700	705	719	728	709
75°	303	297	312	315	316	326
85°	36	42	52	64	68	53
90°	0	0	0	0	0	

TEST NUMBER: P1498544

CATALOG NUMBER: MAE-G-2-120-2STD-HI-40-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2647.2	2647.2	2647.2	2647.2	2647.2
2.5°	2652.3	2644.8	2647.2	2634.2	2634.5
5°	2640.9	2632.1	2631.7	2614.9	2618.7
7.5°	2620.6	2610.0	2605.1	2585.5	2588.8
10°	2592.7	2579.1	2568.7	2544.5	2546.0
12.5°	2556.7	2540.8	2523.7	2495.5	2497.7
15°	2512.1	2493.8	2468.9	2438.5	2439.5
17.5°	2462.6	2442.2	2408.4	2375.8	2379.4
20°	2404.5	2381.4	2341.5	2307.7	2311.1
22.5°	2339.9	2313.4	2271.3	2237.3	2238.3
25°	2270.8	2241.0	2194.4	2162.8	2164.2
27.5°	2195.8	2162.6	2114.2	2085.1	2088.5
30°	2115.2	2080.0	2030.6	2007.1	2012.3
32.5°	2030.4	1993.7	1945.2	1929.3	1937.7
35°	1942.4	1903.2	1856.2	1847.7	1857.3
37.5°	1850.6	1812.1	1768.1	1767.0	1776.8
40°	1754.0	1716.9	1678.7	1682.5	1693.5
42.5°	1656.5	1620.5	1588.4	1597.4	1609.2
45°	1557.0	1521.0	1496.0	1508.8	1521.4
47.5°	1457.6	1421.8	1403.4	1419.3	1430.6
50°	1353.7	1320.8	1307.6	1325.8	1336.3
52.5°	1248.1	1217.5	1210.6	1230.7	1244.8
55°	1144.5	1115.3	1112.0	1132.5	1142.5
57.5°	1037.7	1013.3	1013.0	1032.0	1042.3
60°	931.3	908.5	910.6	930.2	941.2
62.5°	823.7	803.3	808.4	826.6	834.8
65°	716.5	699.7	704.9	719.3	727.5
67.5°	610.5	595.2	603.6	619.0	622.9
70°	501.5	490.1	501.7	513.0	514.8
72.5°	400.7	390.6	404.0	411.6	411.4
75°	303.0	296.9	312.4	315.2	316.1
77.5°	214.2	214.1	225.2	228.3	229.9
80°	138.4	143.0	150.5	156.2	156.6
82.5°	78.2	83.4	91.4	104.0	108.9
85°	36.2	41.5	52.5	63.5	68.3
87.5°	12.2	16.2	22.2	24.0	22.8
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	17.75	19.33	18.12	19.65	19.96	17.86	19.45	18.23	19.76	20.07
	3H	19.22	20.65	19.60	20.97	21.33	19.37	20.80	19.75	21.13	21.49
	4H	19.65	20.99	20.05	21.34	21.71	19.82	21.16	20.22	21.51	21.89
	6H	19.86	21.10	20.27	21.47	21.86	20.07	21.31	20.48	21.67	22.06
	8H	19.89	21.07	20.32	21.46	21.86	20.13	21.31	20.55	21.70	22.10
	12H	19.89	21.02	20.32	21.40	21.83	20.17	21.30	20.60	21.68	22.11
4H	2H	18.29	19.63	18.69	19.98	20.36	18.39	19.72	18.78	20.07	20.45
	3H	19.95	21.06	20.36	21.46	21.86	20.09	21.20	20.50	21.60	22.00
	4H	20.46	21.46	20.89	21.88	22.31	20.63	21.64	21.07	22.05	22.49
	6H	20.75	21.63	21.21	22.07	22.52	20.97	21.84	21.42	22.28	22.74
	8H	20.80	21.61	21.26	22.06	22.52	21.05	21.87	21.52	22.31	22.78
	12H	20.81	21.54	21.30	22.02	22.49	21.12	21.85	21.60	22.33	22.80
8H	4H	20.66	21.47	21.12	21.91	22.38	20.81	21.63	21.28	22.07	22.54
	6H	21.01	21.68	21.50	22.17	22.65	21.21	21.89	21.71	22.38	22.85
	8H	21.08	21.69	21.59	22.19	22.68	21.34	21.94	21.85	22.45	22.94
	12H	21.12	21.65	21.63	22.15	22.71	21.45	21.99	21.96	22.48	23.04
12H	4H	20.66	21.39	21.14	21.87	22.34	20.81	21.54	21.29	22.02	22.49
	6H	21.01	21.62	21.53	22.13	22.61	21.21	21.82	21.72	22.32	22.81
	8H	21.12	21.66	21.63	22.15	22.71	21.38	21.91	21.89	22.40	22.97