

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: P1498448

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498448
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-2-120-2LO-HI-40-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

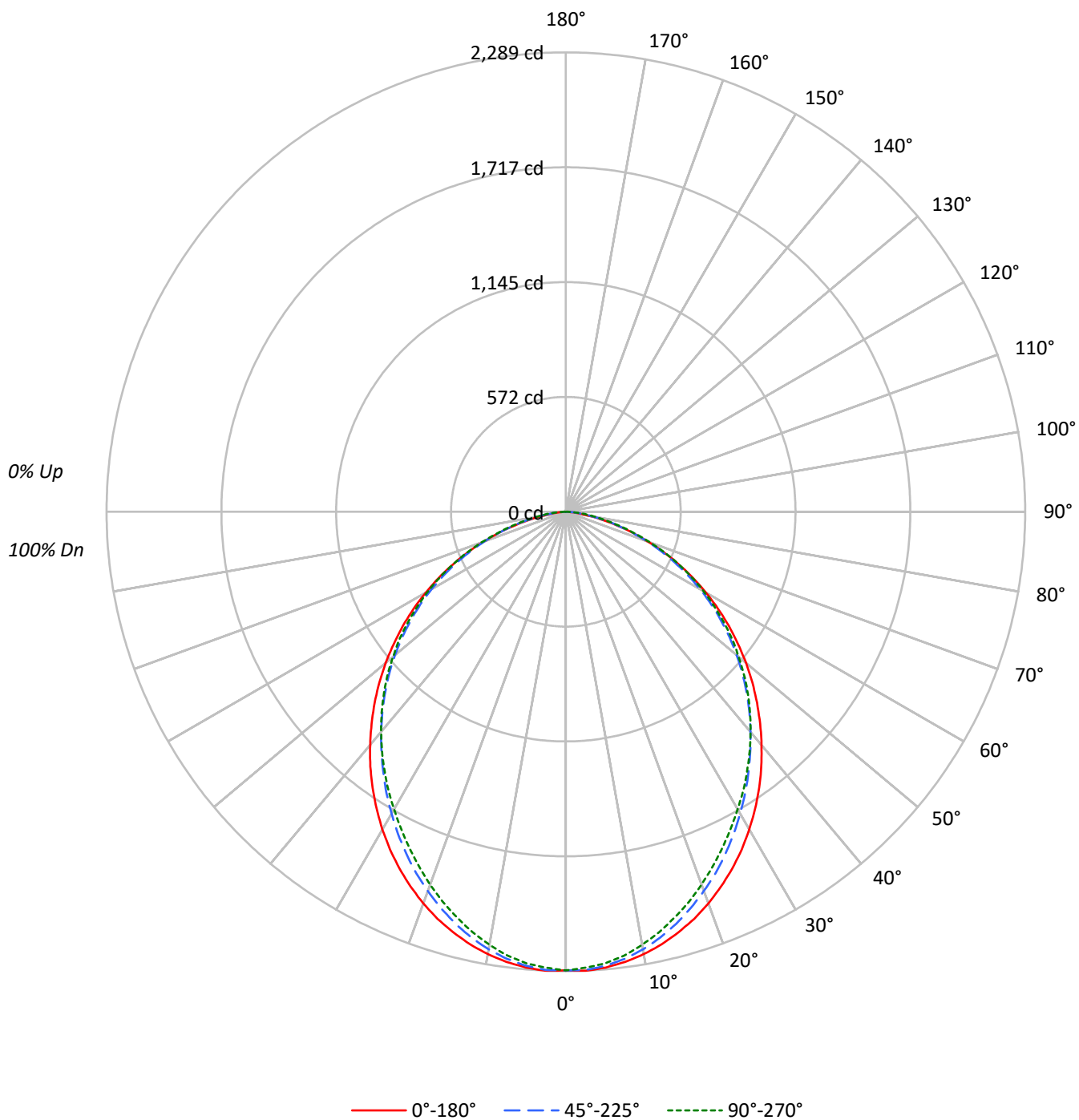
Lumens per Lamp: N/A
Luminaire Lumens: 5496.1 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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: P1498448

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

Luminous Intensity Polar Plot



TEST NUMBER: P1498448

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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	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	78	65	56	50	75	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	45	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6149	6149	6149
5°	6158	6135	6101
10°	6116	6050	5987
15°	6043	5919	5831
20°	5947	5759	5662
25°	5825	5586	5482
30°	5680	5399	5319
35°	5517	5209	5175
40°	5329	5029	5031
45°	5127	4846	4882
50°	4906	4653	4705
55°	4650	4428	4504
60°	4344	4156	4271
65°	3960	3812	3952
70°	3431	3385	3524
75°	2747	2840	2958
80°	1881	2123	2301
85°	994	1541	2044

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5127 cd/sqm

TEST NUMBER: P1498448

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.6	3.9
10°-20°	598.5	10.9
20°-30°	870.6	15.8
30°-40°	1004.4	18.3
40°-50°	997.5	18.1
50°-60°	856.2	15.6
60°-70°	602.5	11.0
70°-80°	291.2	5.3
80°-90°	60.6	1.1
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°	1683.7	30.6
0°-40°	2688.1	48.9
0°-60°	4541.8	82.6
0°-90°	5496.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5496.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2285	2285	2285	2285	2285	
5°	2280	2273	2271	2255	2258	216
15°	2169	2152	2125	2093	2093	611
25°	1962	1932	1881	1847	1846	903
35°	1679	1639	1586	1570	1575	1050
45°	1347	1309	1274	1276	1283	1039
55°	991	959	944	954	960	885
65°	622	601	599	613	621	615
75°	264	256	273	282	284	284
85°	32	38	50	61	66	47
90°	0	0	0	0	0	

TEST NUMBER: P1498448

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2285.1	2285.1	2285.1	2285.1	2285.1
2.5°	2289.2	2284.1	2285.1	2272.4	2273.6
5°	2279.6	2272.9	2271.0	2254.7	2258.4
7.5°	2262.1	2253.5	2246.9	2227.5	2230.4
10°	2238.2	2226.6	2214.2	2189.9	2191.0
12.5°	2207.3	2193.1	2173.6	2145.0	2146.3
15°	2169.1	2152.2	2124.7	2093.0	2093.1
17.5°	2126.5	2107.0	2070.5	2036.4	2038.6
20°	2076.7	2054.1	2011.0	1975.7	1977.2
22.5°	2021.3	1994.9	1949.0	1913.1	1912.3
25°	1961.7	1931.8	1881.2	1847.0	1846.4
27.5°	1897.3	1863.8	1810.6	1778.5	1779.3
30°	1828.0	1792.1	1737.5	1709.8	1711.8
32.5°	1755.1	1717.3	1663.1	1641.4	1645.9
35°	1679.3	1638.9	1585.7	1570.1	1575.2
37.5°	1600.1	1560.2	1509.1	1499.5	1504.7
40°	1517.0	1477.9	1431.5	1426.0	1432.2
42.5°	1433.0	1394.6	1353.3	1352.2	1358.8
45°	1347.2	1308.6	1273.5	1275.8	1282.9
47.5°	1261.1	1223.1	1193.8	1198.7	1205.1
50°	1171.8	1136.0	1111.4	1118.6	1123.8
52.5°	1080.3	1046.8	1028.3	1037.2	1045.8
55°	991.2	958.7	943.9	953.9	960.1
57.5°	899.0	870.8	859.4	869.7	876.7
60°	807.1	780.5	772.3	785.0	793.5
62.5°	714.2	689.8	685.9	699.8	707.5
65°	621.9	600.6	598.7	612.9	620.7
67.5°	530.0	511.0	514.2	531.1	535.7
70°	436.1	420.6	430.2	444.4	447.9
72.5°	348.7	335.6	349.4	361.3	363.1
75°	264.2	255.7	273.2	281.5	284.5
77.5°	187.3	185.2	200.3	208.5	212.1
80°	121.4	125.2	137.0	146.6	148.5
82.5°	69.1	74.4	85.6	99.2	104.5
85°	32.2	37.9	49.9	61.2	66.2
87.5°	10.8	15.0	21.2	23.2	22.1
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	17.24	18.83	17.61	19.14	19.45	17.21	18.79	17.57	19.10	19.42
	3H	18.72	20.15	19.10	20.47	20.83	18.78	20.21	19.16	20.53	20.89
	4H	19.16	20.50	19.56	20.84	21.22	19.28	20.62	19.68	20.96	21.34
	6H	19.37	20.61	19.79	20.98	21.37	19.57	20.81	19.98	21.18	21.57
	8H	19.41	20.59	19.83	20.98	21.38	19.65	20.83	20.08	21.22	21.62
	12H	19.41	20.54	19.84	20.92	21.35	19.71	20.84	20.14	21.22	21.65
4H	2H	17.77	19.11	18.17	19.45	19.83	17.74	19.08	18.14	19.43	19.80
	3H	19.43	20.54	19.84	20.94	21.34	19.51	20.62	19.92	21.02	21.42
	4H	19.95	20.96	20.38	21.37	21.81	20.11	21.11	20.54	21.53	21.96
	6H	20.25	21.13	20.71	21.57	22.03	20.50	21.37	20.96	21.82	22.27
	8H	20.30	21.12	20.77	21.56	22.03	20.61	21.43	21.08	21.87	22.34
	12H	20.32	21.05	20.80	21.53	22.00	20.70	21.43	21.18	21.91	22.38
8H	4H	20.16	20.98	20.62	21.42	21.88	20.30	21.12	20.76	21.56	22.03
	6H	20.52	21.20	21.02	21.69	22.16	20.77	21.44	21.26	21.93	22.41
	8H	20.60	21.21	21.12	21.72	22.20	20.93	21.54	21.44	22.04	22.53
	12H	20.65	21.18	21.16	21.67	22.24	21.07	21.61	21.58	22.10	22.66
12H	4H	20.17	20.90	20.65	21.37	21.84	20.30	21.03	20.78	21.51	21.98
	6H	20.54	21.14	21.05	21.65	22.14	20.77	21.38	21.28	21.89	22.37
	8H	20.66	21.19	21.16	21.68	22.24	20.98	21.51	21.49	22.00	22.57