

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: P1498926

Luminaire Tested: MAE-G-4-120-1HI-HI-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498926
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-4-120-1HI-HI-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

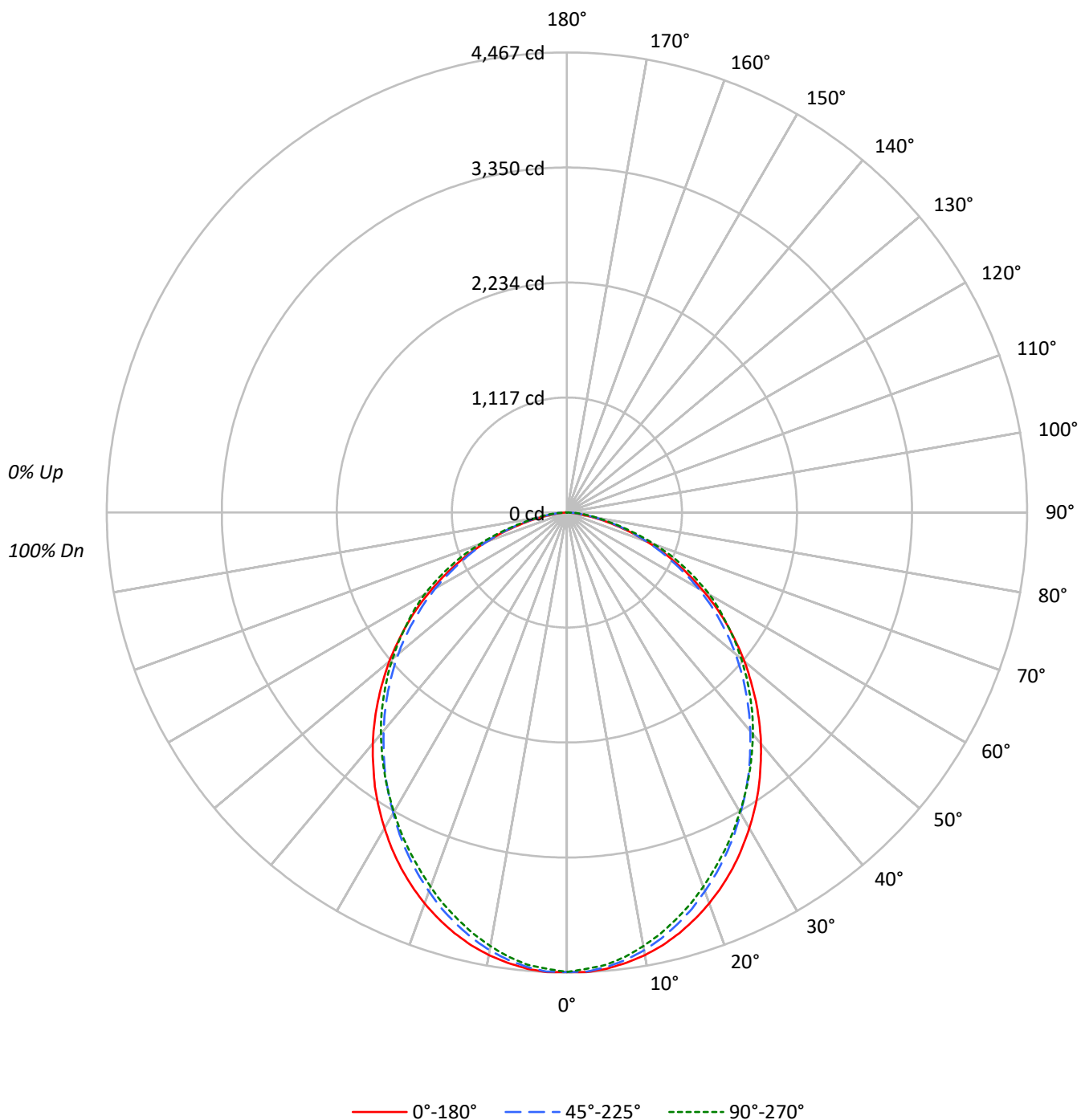
Lumens per Lamp: N/A
Luminaire Lumens: 10677.0 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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: P1498926

CATALOG NUMBER: MAE-G-4-120-1HI-HI-40-90

Luminous Intensity Polar Plot



TEST NUMBER: P1498926

CATALOG NUMBER: MAE-G-4-120-1HI-HI-40-90

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	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	82	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	61	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	39	50	43	38	48	42	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	32	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	29	39	33	28	38	32	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6003	6003	6003
5°	6005	5982	5953
10°	5962	5897	5841
15°	5887	5765	5697
20°	5783	5605	5539
25°	5655	5431	5377
30°	5501	5237	5218
35°	5336	5054	5071
40°	5147	4862	4934
45°	4936	4672	4781
50°	4711	4470	4623
55°	4450	4233	4456
60°	4130	3961	4308
65°	3758	3610	4005
70°	3261	3245	3570
75°	2602	2762	2931
80°	1800	2133	2325
85°	1007	1627	2115

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4936 cd/sqm

TEST NUMBER: P1498926

CATALOG NUMBER: MAE-G-4-120-1HI-HI-40-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.8	3.9
10°-20°	1167.5	10.9
20°-30°	1696.0	15.9
30°-40°	1951.8	18.3
40°-50°	1931.9	18.1
50°-60°	1654.1	15.5
60°-70°	1166.6	10.9
70°-80°	566.8	5.3
80°-90°	123.4	1.2
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°	3282.3	30.7
0°-40°	5234.1	49.0
0°-60°	8820.1	82.6
0°-90°	10677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10677.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4462	4462	4462	4462	4462	
5°	4446	4443	4429	4398	4408	422
15°	4226	4203	4139	4084	4090	1191
25°	3809	3754	3658	3611	3622	1753
35°	3249	3172	3077	3066	3087	2030
45°	2594	2524	2455	2486	2513	2001
55°	1897	1833	1804	1858	1900	1694
65°	1180	1130	1134	1220	1258	1168
75°	501	479	531	564	564	540
85°	65	80	105	128	137	92
90°	0	0	0	0	0	

TEST NUMBER: P1498926

CATALOG NUMBER: MAE-G-4-120-1HI-HI-40-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4461.7	4461.7	4461.7	4461.7	4461.7
2.5°	4466.9	4470.6	4461.7	4428.3	4434.1
5°	4446.3	4442.6	4429.3	4398.0	4407.8
7.5°	4410.8	4404.7	4380.8	4343.8	4350.2
10°	4363.8	4351.6	4316.0	4269.8	4275.2
12.5°	4302.7	4286.3	4236.2	4183.8	4189.6
15°	4226.3	4202.7	4139.0	4083.8	4089.7
17.5°	4138.5	4111.7	4034.6	3974.6	3987.3
20°	4039.2	4002.8	3914.2	3857.3	3868.2
22.5°	3929.7	3884.0	3791.0	3736.2	3744.8
25°	3809.2	3753.6	3658.2	3611.3	3621.6
27.5°	3679.1	3618.2	3520.0	3477.3	3492.9
30°	3540.5	3474.8	3371.0	3341.4	3358.6
32.5°	3398.3	3328.4	3225.9	3207.0	3224.1
35°	3248.7	3172.4	3077.1	3065.7	3087.3
37.5°	3088.8	3015.4	2921.2	2928.6	2948.8
40°	2930.3	2854.4	2768.3	2784.6	2808.9
42.5°	2765.5	2692.3	2613.7	2636.4	2664.9
45°	2593.9	2524.0	2455.3	2485.6	2512.7
47.5°	2421.5	2352.4	2296.7	2332.0	2364.2
50°	2250.5	2184.2	2135.3	2178.1	2208.5
52.5°	2071.0	2007.7	1972.8	2017.9	2057.0
55°	1897.0	1832.6	1804.5	1858.3	1899.6
57.5°	1717.2	1664.3	1640.0	1703.3	1754.9
60°	1534.6	1482.5	1472.0	1552.1	1601.0
62.5°	1356.1	1305.1	1300.4	1394.0	1429.2
65°	1180.3	1129.9	1133.9	1220.2	1258.1
67.5°	1006.3	960.0	981.3	1064.1	1089.4
70°	828.9	787.7	824.9	894.8	907.4
72.5°	662.3	627.6	678.1	727.2	730.2
75°	500.6	479.2	531.3	563.7	563.9
77.5°	358.2	347.0	395.1	417.2	418.5
80°	232.3	237.5	275.3	292.5	300.1
82.5°	135.5	147.4	177.0	206.3	214.2
85°	65.2	79.5	105.4	127.9	137.0
87.5°	22.5	32.1	44.0	48.8	47.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1498926

CATALOG NUMBER: MAE-G-4-120-1HI-HI-40-90

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	17.02	18.61	17.39	18.92	19.24	17.19	18.78	17.56	19.09	19.41
	3H	18.47	19.90	18.85	20.23	20.59	18.84	20.26	19.22	20.59	20.95
	4H	18.90	20.24	19.30	20.59	20.97	19.34	20.68	19.74	21.03	21.40
	6H	19.12	20.36	19.53	20.73	21.12	19.64	20.87	20.05	21.24	21.63
	8H	19.16	20.34	19.58	20.73	21.13	19.72	20.90	20.15	21.29	21.69
	12H	19.16	20.29	19.59	20.67	21.10	19.79	20.92	20.22	21.30	21.73
4H	2H	17.54	18.88	17.94	19.23	19.60	17.68	19.02	18.08	19.37	19.74
	3H	19.18	20.29	19.59	20.69	21.09	19.53	20.64	19.94	21.04	21.44
	4H	19.69	20.69	20.12	21.11	21.54	20.14	21.15	20.57	21.56	22.00
	6H	19.99	20.86	20.44	21.30	21.76	20.54	21.41	21.00	21.86	22.31
	8H	20.04	20.86	20.51	21.30	21.77	20.66	21.48	21.12	21.92	22.39
	12H	20.07	20.80	20.55	21.28	21.75	20.76	21.49	21.24	21.97	22.44
8H	4H	19.91	20.73	20.37	21.17	21.64	20.32	21.14	20.79	21.58	22.05
	6H	20.28	20.96	20.78	21.44	21.92	20.80	21.48	21.30	21.97	22.44
	8H	20.37	20.97	20.88	21.48	21.97	20.98	21.58	21.49	22.09	22.58
	12H	20.42	20.95	20.93	21.45	22.01	21.14	21.67	21.64	22.16	22.72
12H	4H	19.92	20.66	20.41	21.13	21.60	20.32	21.05	20.80	21.53	22.00
	6H	20.30	20.91	20.81	21.41	21.90	20.81	21.41	21.32	21.92	22.41
	8H	20.43	20.96	20.94	21.46	22.02	21.03	21.56	21.54	22.05	22.62