

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: P1499403

Luminaire Tested: MAE-G-4-120-2STD-HI-35

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499403
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-4-120-2STD-HI-35
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

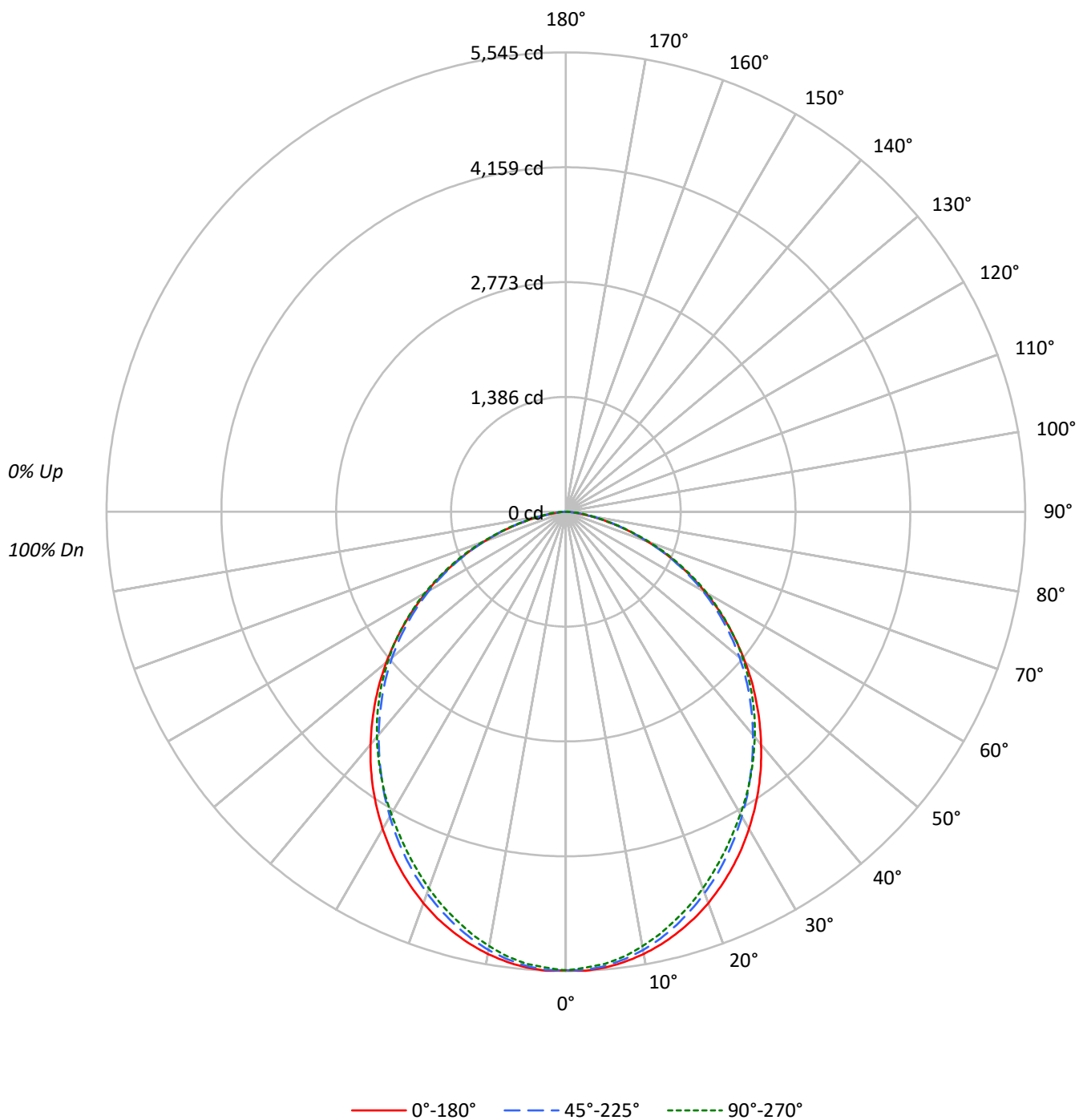
Lumens per Lamp: N/A
Luminaire Lumens: 13410.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 157.2
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

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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				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	80	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°	7447	7447	7447
5°	7458	7432	7396
10°	7406	7338	7275
15°	7316	7192	7108
20°	7198	7013	6924
25°	7048	6815	6725
30°	6870	6601	6545
35°	6670	6381	6388
40°	6440	6172	6231
45°	6193	5959	6066
50°	5923	5731	5862
55°	5611	5462	5617
60°	5238	5131	5307
65°	4767	4699	4848
70°	4122	4129	4231
75°	3291	3392	3422
80°	2239	2426	2513
85°	1162	1678	2177

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6193 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.2	3.9
10°-20°	1454.6	10.8
20°-30°	2122.6	15.8
30°-40°	2456.8	18.3
40°-50°	2447.7	18.3
50°-60°	2105.6	15.7
60°-70°	1474.0	11.0
70°-80°	692.9	5.2
80°-90°	135.6	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°	4097.4	30.6
0°-40°	6554.2	48.9
0°-60°	11107.5	82.8
0°-90°	13410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13410.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5535	5535	5535	5535	5535	
5°	5522	5503	5502	5468	5476	524
15°	5252	5214	5163	5101	5103	1480
25°	4747	4686	4591	4526	4530	2185
35°	4060	3980	3885	3869	3889	2538
45°	3254	3181	3132	3161	3188	2510
55°	2392	2333	2328	2373	2394	2136
65°	1497	1464	1476	1506	1523	1481
75°	633	621	652	657	658	681
85°	75	86	109	131	141	111
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5534.7	5534.7	5534.7	5534.7	5534.7
2.5°	5545.4	5529.6	5534.7	5507.9	5508.1
5°	5521.6	5503.0	5502.5	5467.7	5475.7
7.5°	5479.1	5456.9	5446.8	5406.6	5413.5
10°	5420.6	5392.3	5371.2	5321.4	5324.6
12.5°	5345.3	5312.3	5277.5	5219.5	5224.3
15°	5252.0	5213.9	5163.3	5100.9	5103.1
17.5°	5148.7	5106.2	5037.1	4970.4	4978.2
20°	5027.0	4979.2	4897.9	4828.5	4836.0
22.5°	4891.9	4837.0	4751.2	4681.8	4684.2
25°	4747.2	4685.9	4590.7	4526.1	4529.6
27.5°	4590.4	4522.0	4423.4	4364.3	4371.8
30°	4421.9	4349.3	4248.8	4201.3	4212.8
32.5°	4244.4	4169.2	4070.5	4038.8	4057.3
35°	4060.5	3980.2	3884.6	3868.7	3889.3
37.5°	3868.6	3789.5	3700.6	3700.0	3721.4
40°	3666.5	3590.6	3513.8	3523.7	3547.3
42.5°	3462.5	3388.9	3324.9	3345.7	3371.2
45°	3254.5	3180.8	3131.8	3160.6	3187.7
47.5°	3046.9	2973.5	2938.1	2973.3	2997.7
50°	2829.5	2762.2	2737.8	2777.5	2800.5
52.5°	2608.8	2546.4	2534.8	2578.7	2608.9
55°	2392.1	2332.7	2328.5	2373.1	2394.5
57.5°	2168.7	2119.4	2121.1	2162.3	2184.3
60°	1946.4	1900.3	1906.9	1948.9	1972.0
62.5°	1721.4	1680.3	1692.9	1731.2	1748.3
65°	1497.3	1463.6	1476.0	1505.6	1522.6
67.5°	1275.7	1245.1	1263.5	1294.9	1302.8
70°	1047.8	1025.2	1049.7	1072.3	1075.4
72.5°	837.0	816.8	844.6	859.2	858.3
75°	633.0	620.7	652.5	656.9	658.3
77.5°	447.4	447.4	469.6	474.8	477.6
80°	288.9	298.5	313.1	323.9	324.3
82.5°	163.2	173.8	189.6	215.3	225.3
85°	75.3	86.2	108.7	131.3	141.0
87.5°	25.4	33.6	45.9	49.7	47.2
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	17.90	19.49	18.27	19.80	20.12	18.03	19.61	18.39	19.93	20.24
	3H	19.37	20.80	19.75	21.13	21.49	19.54	20.96	19.91	21.29	21.65
	4H	19.80	21.14	20.20	21.49	21.87	19.98	21.32	20.38	21.67	22.05
	6H	20.02	21.25	20.43	21.62	22.01	20.22	21.46	20.63	21.82	22.22
	8H	20.04	21.22	20.47	21.61	22.01	20.28	21.46	20.71	21.85	22.25
	12H	20.04	21.17	20.47	21.55	21.98	20.32	21.45	20.75	21.83	22.26
4H	2H	18.45	19.79	18.85	20.14	20.51	18.55	19.89	18.95	20.24	20.62
	3H	20.10	21.21	20.51	21.61	22.01	20.25	21.36	20.66	21.76	22.16
	4H	20.61	21.62	21.05	22.03	22.47	20.79	21.79	21.22	22.21	22.64
	6H	20.91	21.78	21.36	22.22	22.68	21.12	21.99	21.57	22.43	22.89
	8H	20.95	21.77	21.41	22.21	22.68	21.20	22.02	21.66	22.46	22.93
	12H	20.97	21.70	21.45	22.17	22.64	21.27	22.00	21.75	22.47	22.94
8H	4H	20.81	21.62	21.27	22.07	22.53	20.97	21.78	21.43	22.23	22.69
	6H	21.16	21.83	21.66	22.32	22.80	21.36	22.03	21.86	22.52	23.00
	8H	21.23	21.84	21.75	22.34	22.83	21.49	22.09	22.00	22.60	23.08
	12H	21.27	21.81	21.78	22.30	22.86	21.60	22.13	22.10	22.62	23.18
12H	4H	20.81	21.54	21.29	22.02	22.49	20.97	21.70	21.45	22.17	22.64
	6H	21.16	21.77	21.68	22.28	22.76	21.36	21.96	21.87	22.47	22.96
	8H	21.28	21.81	21.78	22.30	22.86	21.52	22.06	22.03	22.55	23.11