

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: P1498362

Luminaire Tested: MAE-G-2-120-2HI-LO-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498362
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-2-120-2HI-LO-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

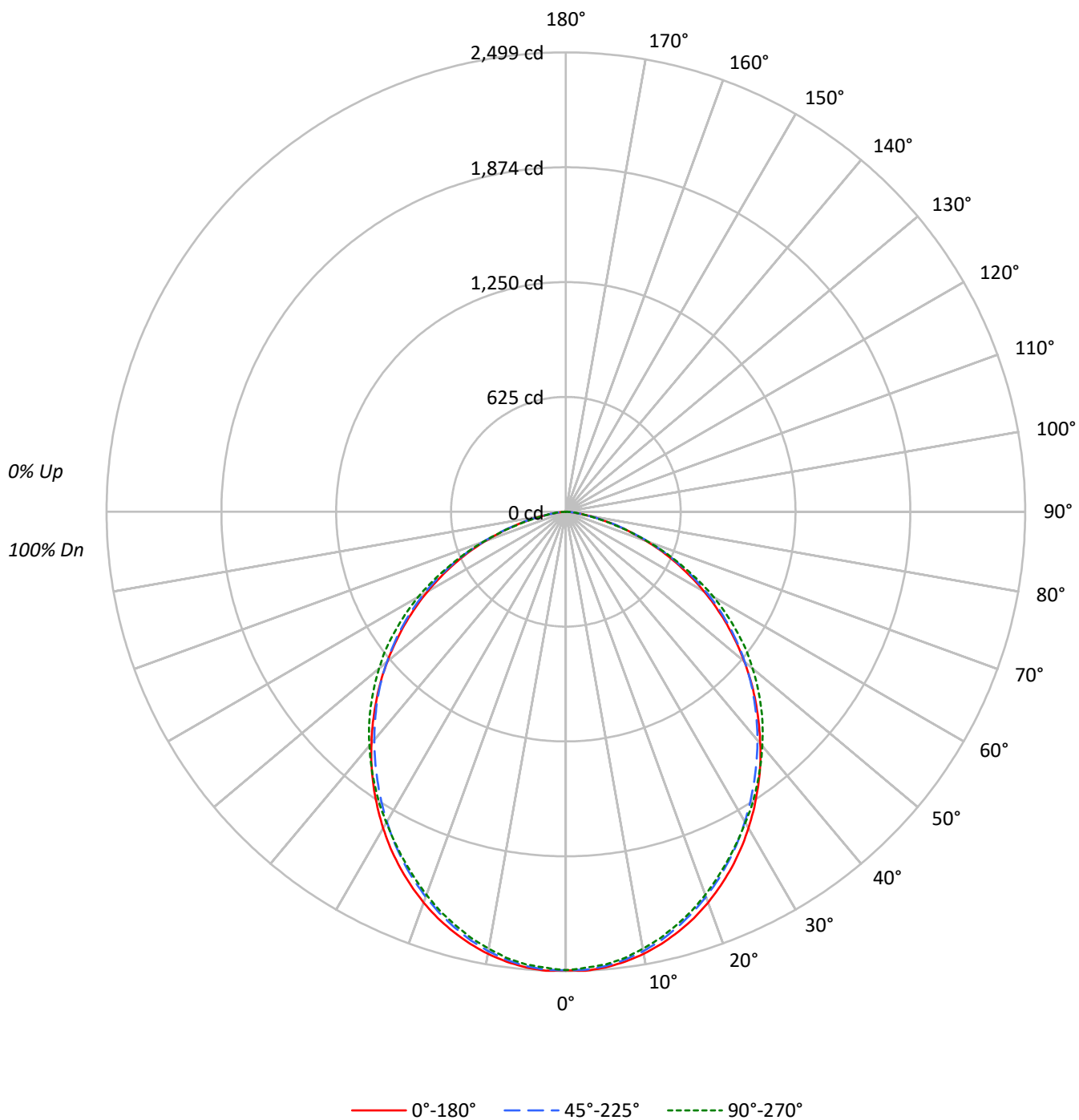
Lumens per Lamp: N/A
Luminaire Lumens: 6123.0 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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	93	90		91
2	100	92	86	81	98	91	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	57		67	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	54	41	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6710	6710	6710
5°	6721	6702	6677
10°	6673	6631	6595
15°	6589	6521	6482
20°	6479	6383	6351
25°	6341	6225	6201
30°	6176	6052	6069
35°	5992	5868	5957
40°	5780	5696	5841
45°	5554	5518	5717
50°	5307	5322	5552
55°	5024	5085	5329
60°	4682	4785	5004
65°	4250	4371	4470
70°	3659	3771	3751
75°	2907	2978	2821
80°	1951	1948	1816
85°	982	1204	1476

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5717 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.8	3.8
10°-20°	659.4	10.8
20°-30°	967.9	15.8
30°-40°	1126.8	18.4
40°-50°	1128.9	18.4
50°-60°	975.0	15.9
60°-70°	676.4	11.0
70°-80°	302.1	4.9
80°-90°	51.8	0.8
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°	1862.1	30.4
0°-40°	2988.8	48.8
0°-60°	5092.7	83.2
0°-90°	6123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6123.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2494	2494	2494	2494	2494	
5°	2488	2478	2481	2469	2472	236
15°	2365	2350	2341	2324	2327	667
25°	2136	2117	2097	2083	2088	983
35°	1824	1802	1786	1797	1813	1140
45°	1459	1442	1450	1482	1502	1126
55°	1071	1060	1084	1121	1136	956
65°	667	667	686	696	702	661
75°	280	281	286	276	271	301
85°	32	34	39	45	48	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2493.7	2493.7	2493.7	2493.7	2493.7
2.5°	2499.2	2489.2	2493.7	2485.0	2482.8
5°	2488.0	2477.8	2480.9	2469.1	2471.9
7.5°	2468.9	2457.6	2458.2	2445.5	2448.5
10°	2442.0	2429.0	2426.9	2411.9	2413.7
12.5°	2407.8	2393.9	2388.4	2371.7	2375.1
15°	2365.0	2350.2	2340.7	2324.3	2326.8
17.5°	2318.3	2303.1	2287.9	2271.1	2276.3
20°	2262.6	2246.9	2229.0	2211.2	2217.7
22.5°	2201.1	2183.7	2166.0	2149.0	2153.8
25°	2135.7	2117.1	2096.7	2082.6	2088.3
27.5°	2064.3	2043.9	2024.3	2013.0	2021.0
30°	1987.7	1966.9	1947.7	1942.5	1953.1
32.5°	1907.1	1886.5	1868.8	1871.8	1886.4
35°	1823.9	1802.1	1786.4	1797.2	1813.3
37.5°	1737.5	1716.3	1704.7	1723.0	1739.9
40°	1645.5	1626.9	1621.5	1644.9	1662.7
42.5°	1553.4	1536.1	1536.8	1565.5	1584.7
45°	1459.4	1442.5	1450.0	1481.9	1502.3
47.5°	1366.5	1348.9	1362.3	1397.2	1415.5
50°	1267.7	1253.6	1271.3	1307.7	1326.3
52.5°	1169.2	1156.2	1178.5	1216.7	1237.9
55°	1070.8	1059.9	1083.8	1120.9	1135.8
57.5°	970.1	963.5	988.4	1020.2	1034.2
60°	870.0	864.3	889.1	917.2	929.7
62.5°	768.9	764.9	788.8	809.9	816.2
65°	667.4	666.8	686.4	695.7	702.0
67.5°	568.4	567.1	584.1	590.5	591.3
70°	465.1	467.2	479.3	479.7	476.8
72.5°	371.1	371.4	379.1	374.0	369.2
75°	279.6	280.9	286.4	275.5	271.3
77.5°	196.4	200.8	198.8	189.1	185.3
80°	125.9	130.8	125.7	120.3	117.2
82.5°	70.1	73.0	70.8	76.5	78.7
85°	31.8	34.3	39.0	45.3	47.8
87.5°	10.8	13.0	16.2	17.1	16.1
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	17.54	19.12	17.90	19.44	19.75	17.95	19.53	18.31	19.84	20.16
	3H	18.99	20.42	19.37	20.74	21.10	19.34	20.76	19.72	21.09	21.45
	4H	19.41	20.75	19.81	21.09	21.47	19.70	21.04	20.10	21.38	21.76
	6H	19.61	20.84	20.02	21.21	21.60	19.85	21.09	20.26	21.45	21.84
	8H	19.63	20.81	20.06	21.20	21.60	19.87	21.05	20.30	21.44	21.84
	12H	19.63	20.76	20.06	21.14	21.57	19.88	21.01	20.31	21.39	21.82
4H	2H	18.12	19.46	18.52	19.81	20.18	18.45	19.79	18.85	20.14	20.51
	3H	19.75	20.86	20.16	21.26	21.66	20.02	21.13	20.43	21.53	21.93
	4H	20.25	21.25	20.68	21.66	22.10	20.47	21.47	20.90	21.88	22.32
	6H	20.52	21.39	20.98	21.83	22.29	20.69	21.55	21.14	22.00	22.45
	8H	20.56	21.37	21.02	21.82	22.28	20.73	21.54	21.19	21.98	22.45
	12H	20.57	21.30	21.05	21.77	22.24	20.75	21.48	21.23	21.96	22.43
8H	4H	20.42	21.24	20.89	21.68	22.14	20.62	21.44	21.09	21.88	22.34
	6H	20.75	21.42	21.25	21.91	22.39	20.89	21.56	21.38	22.05	22.52
	8H	20.81	21.41	21.32	21.92	22.41	20.95	21.55	21.46	22.06	22.55
	12H	20.84	21.37	21.35	21.86	22.43	21.01	21.54	21.52	22.03	22.59
12H	4H	20.42	21.14	20.90	21.62	22.09	20.62	21.34	21.10	21.82	22.29
	6H	20.74	21.34	21.25	21.85	22.34	20.88	21.48	21.39	21.99	22.48
	8H	20.84	21.36	21.34	21.86	22.42	20.98	21.50	21.49	22.00	22.56