

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: P1498368

Luminaire Tested: MAE-G-2-120-2HI-LO-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498368
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-35-90
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

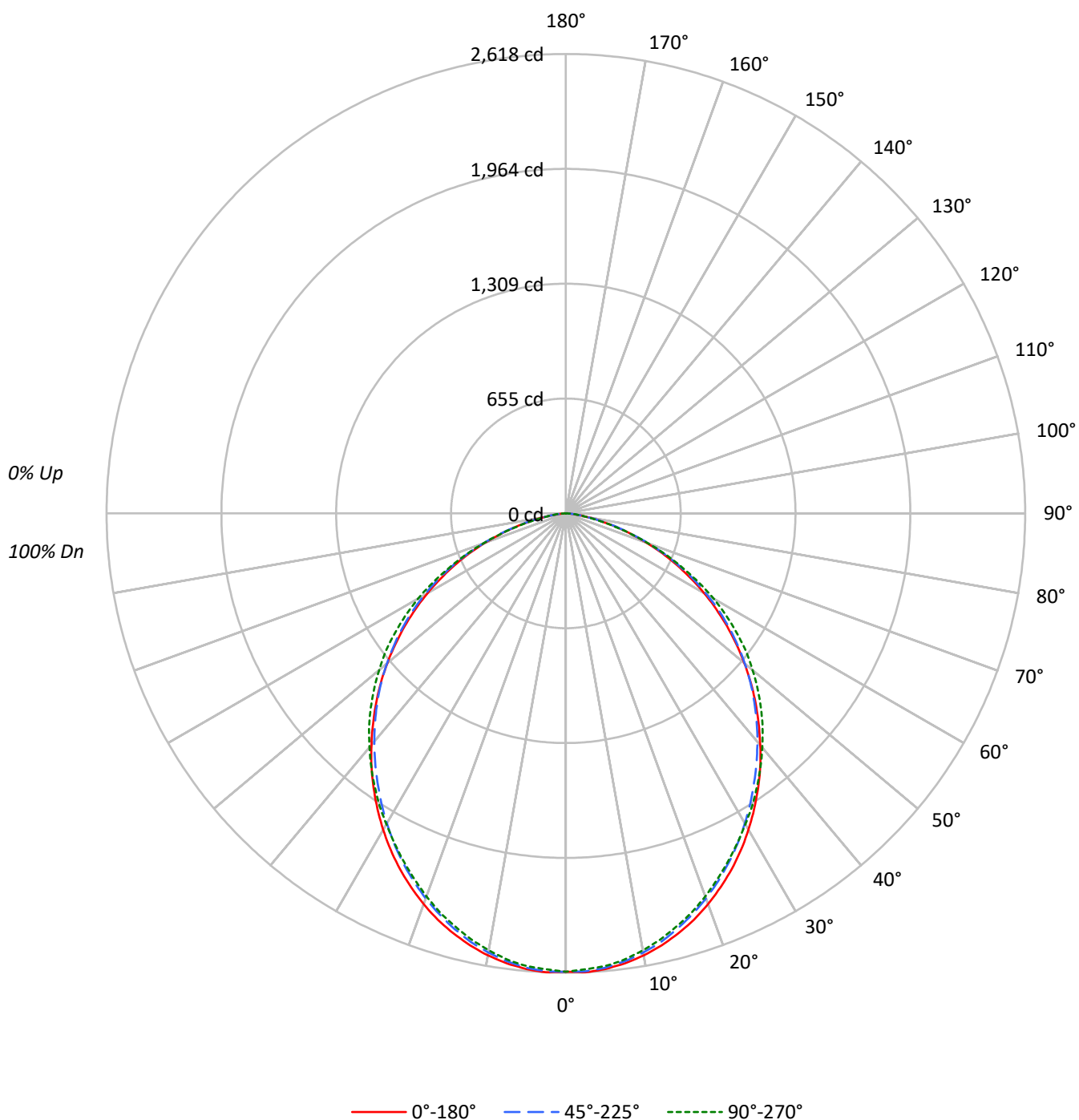
Lumens per Lamp: N/A
Luminaire Lumens: 6414.0 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	34		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°	7029	7029	7029
5°	7040	7020	6994
10°	6990	6946	6909
15°	6902	6831	6790
20°	6787	6687	6652
25°	6643	6521	6495
30°	6470	6340	6357
35°	6276	6147	6240
40°	6055	5967	6118
45°	5818	5781	5989
50°	5560	5575	5816
55°	5262	5327	5582
60°	4905	5012	5241
65°	4452	4578	4682
70°	3834	3950	3931
75°	3044	3119	2955
80°	2044	2041	1903
85°	1028	1260	1544

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5989 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.9	3.8
10°-20°	690.8	10.8
20°-30°	1013.9	15.8
30°-40°	1180.3	18.4
40°-50°	1182.6	18.4
50°-60°	1021.3	15.9
60°-70°	708.5	11.0
70°-80°	316.5	4.9
80°-90°	54.3	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°	1950.6	30.4
0°-40°	3130.9	48.8
0°-60°	5334.7	83.2
0°-90°	6414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6414.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2612	2612	2612	2612	2612	
5°	2606	2596	2599	2586	2589	247
15°	2478	2462	2452	2435	2437	698
25°	2237	2218	2196	2182	2188	1030
35°	1910	1888	1871	1883	1900	1194
45°	1529	1511	1519	1552	1574	1179
55°	1122	1110	1135	1174	1190	1002
65°	699	699	719	729	735	692
75°	293	294	300	289	284	315
85°	33	36	41	48	50	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2612.2	2612.2	2612.2	2612.2	2612.2
2.5°	2617.9	2607.5	2612.2	2603.1	2600.8
5°	2606.3	2595.5	2598.8	2586.5	2589.3
7.5°	2586.2	2574.5	2575.0	2561.8	2564.8
10°	2558.0	2544.5	2542.1	2526.5	2528.4
12.5°	2522.2	2507.7	2501.9	2484.4	2488.0
15°	2477.5	2461.9	2451.9	2434.8	2437.4
17.5°	2428.5	2412.6	2396.6	2379.0	2384.5
20°	2370.1	2353.7	2335.0	2316.4	2323.0
22.5°	2305.7	2287.5	2268.9	2251.1	2256.2
25°	2237.2	2217.8	2196.3	2181.6	2187.6
27.5°	2162.4	2141.0	2120.5	2108.7	2117.1
30°	2082.2	2060.4	2040.3	2034.8	2045.9
32.5°	1997.7	1976.2	1957.6	1960.8	1976.1
35°	1910.5	1887.7	1871.2	1882.6	1899.5
37.5°	1820.1	1797.9	1785.8	1804.9	1822.6
40°	1723.7	1704.2	1698.6	1723.1	1741.7
42.5°	1627.3	1609.0	1609.9	1639.9	1660.0
45°	1528.7	1511.1	1519.0	1552.3	1573.8
47.5°	1431.5	1413.0	1426.9	1463.5	1482.8
50°	1328.0	1313.1	1331.8	1369.8	1389.3
52.5°	1224.8	1211.2	1234.5	1274.5	1296.6
55°	1121.6	1110.3	1135.4	1174.2	1189.8
57.5°	1016.2	1009.2	1035.4	1068.7	1083.5
60°	911.4	905.4	931.3	960.8	973.8
62.5°	805.4	801.2	826.4	848.3	854.9
65°	699.2	698.6	719.0	728.8	735.3
67.5°	595.4	594.0	611.9	618.6	619.4
70°	487.3	489.4	502.1	502.6	499.6
72.5°	388.7	389.0	397.1	391.8	386.8
75°	292.8	294.4	300.0	288.6	284.2
77.5°	205.7	210.3	208.2	198.1	194.2
80°	131.9	137.0	131.7	126.1	122.8
82.5°	73.3	76.5	74.2	80.1	82.5
85°	33.3	35.9	40.8	47.6	50.0
87.5°	11.3	13.6	17.0	17.9	16.9
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	17.70	19.28	18.06	19.60	19.91	18.11	19.69	18.47	20.00	20.32
	3H	19.15	20.58	19.53	20.90	21.26	19.50	20.92	19.88	21.25	21.61
	4H	19.57	20.91	19.97	21.26	21.63	19.86	21.20	20.26	21.55	21.92
	6H	19.77	21.01	20.18	21.37	21.76	20.01	21.25	20.42	21.61	22.01
	8H	19.79	20.97	20.22	21.36	21.76	20.04	21.21	20.46	21.60	22.00
	12H	19.79	20.92	20.22	21.30	21.73	20.05	21.17	20.48	21.56	21.98
4H	2H	18.28	19.62	18.68	19.97	20.34	18.61	19.95	19.01	20.30	20.67
	3H	19.91	21.02	20.32	21.42	21.82	20.19	21.30	20.60	21.69	22.10
	4H	20.41	21.41	20.84	21.82	22.26	20.63	21.63	21.06	22.04	22.48
	6H	20.69	21.55	21.14	22.00	22.45	20.85	21.72	21.30	22.16	22.62
	8H	20.72	21.53	21.19	21.98	22.44	20.89	21.70	21.35	22.14	22.61
	12H	20.73	21.46	21.21	21.93	22.40	20.92	21.64	21.40	22.12	22.59
8H	4H	20.59	21.40	21.05	21.84	22.31	20.79	21.60	21.25	22.04	22.51
	6H	20.91	21.58	21.41	22.07	22.55	21.05	21.72	21.55	22.21	22.69
	8H	20.97	21.57	21.49	22.08	22.57	21.11	21.71	21.63	22.22	22.71
	12H	21.00	21.53	21.51	22.02	22.59	21.17	21.70	21.68	22.19	22.75
12H	4H	20.58	21.31	21.06	21.78	22.25	20.78	21.51	21.26	21.98	22.45
	6H	20.90	21.50	21.41	22.01	22.50	21.04	21.64	21.55	22.15	22.64
	8H	21.00	21.52	21.51	22.02	22.58	21.14	21.67	21.65	22.16	22.72