

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: P1498350

Luminaire Tested: MAE-G-2-120-2HI-HI-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498350
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-HI-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

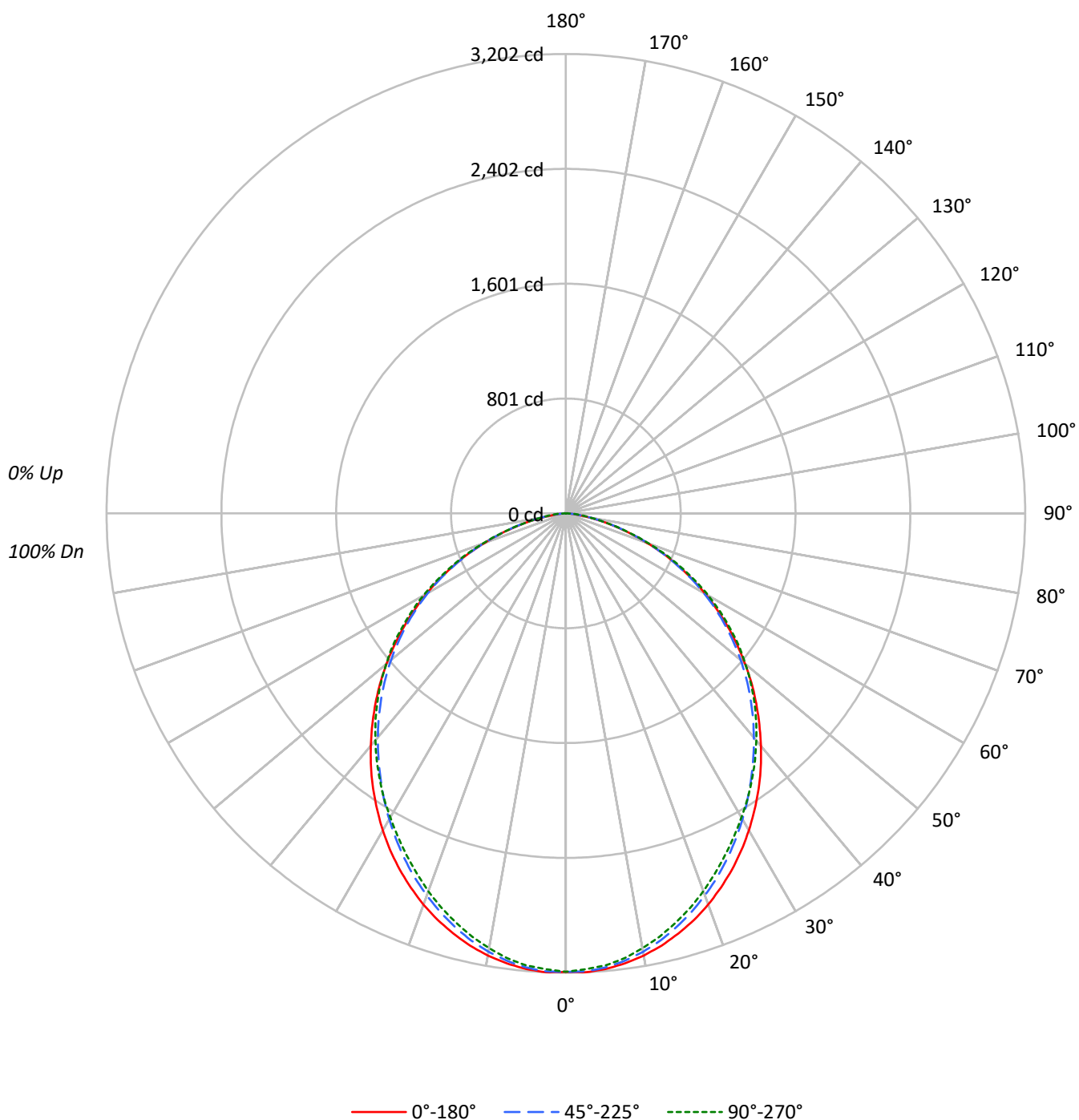
Lumens per Lamp: N/A
Luminaire Lumens: 7764.0 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 87.7
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	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	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	81	98	90	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61		
4	84	73	64	58	82	71	63	57	69	62	57	67	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	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	54	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°	8598	8598	8598
5°	8611	8582	8543
10°	8551	8478	8411
15°	8446	8315	8228
20°	8309	8115	8025
25°	8135	7892	7803
30°	7928	7650	7604
35°	7696	7400	7431
40°	7429	7163	7256
45°	7143	6921	7072
50°	6831	6660	6842
55°	6470	6351	6558
60°	6037	5969	6188
65°	5492	5463	5625
70°	4744	4782	4869
75°	3782	3895	3879
80°	2568	2737	2779
85°	1325	1856	2381

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7143 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.4	3.9
10°-20°	840.9	10.8
20°-30°	1228.6	15.8
30°-40°	1423.8	18.3
40°-50°	1420.2	18.3
50°-60°	1222.8	15.7
60°-70°	854.3	11.0
70°-80°	397.3	5.1
80°-90°	75.7	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°	2369.9	30.5
0°-40°	3793.6	48.9
0°-60°	6436.6	82.9
0°-90°	7764.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7764.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3195	3195	3195	3195	3195	
5°	3188	3176	3177	3158	3162	302
15°	3032	3010	2985	2952	2954	855
25°	2740	2707	2658	2625	2628	1261
35°	2343	2300	2252	2248	2262	1464
45°	1877	1839	1819	1840	1858	1448
55°	1379	1349	1354	1384	1398	1232
65°	862	847	858	874	883	853
75°	364	359	375	374	373	391
85°	43	49	60	72	77	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3195.3	3195.3	3195.3	3195.3	3195.3
2.5°	3201.7	3191.7	3195.3	3180.7	3180.2
5°	3187.7	3176.5	3177.2	3158.2	3162.5
7.5°	3163.3	3150.1	3145.7	3124.0	3127.9
10°	3129.4	3112.9	3102.8	3076.0	3078.0
12.5°	3085.8	3067.0	3049.7	3018.8	3021.9
15°	3031.7	3010.3	2984.8	2952.0	2953.6
17.5°	2972.1	2948.6	2913.1	2878.2	2883.1
20°	2901.5	2875.5	2833.7	2797.4	2802.5
22.5°	2823.4	2793.7	2749.9	2713.8	2716.2
25°	2739.8	2706.9	2658.1	2624.9	2628.0
27.5°	2649.1	2612.4	2562.3	2532.3	2537.9
30°	2551.5	2512.9	2462.0	2439.0	2447.1
32.5°	2448.9	2409.2	2359.5	2345.9	2358.4
35°	2342.7	2300.2	2252.5	2248.2	2262.0
37.5°	2232.0	2190.2	2146.6	2151.4	2165.7
40°	2114.9	2075.5	2039.1	2049.9	2065.5
42.5°	1997.2	1959.0	1930.1	1947.4	1964.2
45°	1877.0	1838.9	1818.7	1840.4	1858.4
47.5°	1757.3	1719.1	1706.8	1732.2	1748.4
50°	1631.6	1597.1	1590.9	1618.9	1634.4
52.5°	1504.4	1472.5	1473.4	1503.7	1523.2
55°	1379.1	1349.1	1353.7	1384.1	1397.9
57.5°	1250.2	1225.9	1233.5	1260.9	1274.7
60°	1121.8	1099.4	1109.0	1135.9	1149.7
62.5°	992.0	972.2	984.5	1007.6	1017.1
65°	862.5	847.0	858.0	873.9	883.4
67.5°	734.8	720.5	733.5	749.5	753.3
70°	603.0	593.3	607.8	618.1	618.8
72.5°	481.6	472.5	487.1	492.4	490.7
75°	363.8	358.7	374.6	373.6	373.1
77.5°	256.9	258.1	267.6	267.3	267.5
80°	165.7	171.3	176.6	180.0	179.3
82.5°	93.3	98.9	105.5	118.7	123.9
85°	42.9	48.6	60.1	72.0	77.1
87.5°	14.5	18.8	25.3	27.2	25.8
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	18.40	19.99	18.77	20.30	20.61	18.59	20.17	18.95	20.49	20.80
	3H	19.87	21.29	20.25	21.62	21.98	20.07	21.50	20.45	21.82	22.18
	4H	20.30	21.63	20.70	21.98	22.36	20.50	21.84	20.90	22.18	22.56
	6H	20.51	21.74	20.92	22.11	22.50	20.72	21.95	21.13	22.32	22.71
	8H	20.53	21.71	20.96	22.10	22.50	20.77	21.95	21.19	22.34	22.74
	12H	20.53	21.66	20.96	22.04	22.47	20.80	21.93	21.23	22.31	22.74
4H	2H	18.96	20.29	19.36	20.64	21.02	19.11	20.45	19.51	20.79	21.17
	3H	20.60	21.71	21.01	22.11	22.51	20.78	21.89	21.19	22.29	22.69
	4H	21.11	22.11	21.55	22.53	22.97	21.30	22.30	21.73	22.71	23.15
	6H	21.40	22.27	21.86	22.71	23.17	21.60	22.47	22.05	22.91	23.37
	8H	21.45	22.26	21.91	22.70	23.17	21.67	22.49	22.14	22.93	23.40
	12H	21.46	22.19	21.94	22.66	23.13	21.73	22.46	22.21	22.93	23.41
8H	4H	21.30	22.12	21.77	22.56	23.03	21.47	22.29	21.93	22.73	23.19
	6H	21.65	22.32	22.14	22.81	23.29	21.83	22.51	22.33	23.00	23.47
	8H	21.72	22.32	22.23	22.83	23.32	21.95	22.55	22.46	23.06	23.54
	12H	21.76	22.29	22.27	22.78	23.34	22.04	22.57	22.55	23.07	23.63
12H	4H	21.31	22.03	21.79	22.51	22.98	21.47	22.20	21.95	22.67	23.14
	6H	21.65	22.25	22.16	22.76	23.25	21.83	22.44	22.34	22.94	23.43
	8H	21.76	22.29	22.27	22.78	23.34	21.98	22.51	22.49	23.00	23.57