

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: P1499164

Luminaire Tested: MAE-G-4-120-1STD-STD-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499164
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-4-120-1STD-STD-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

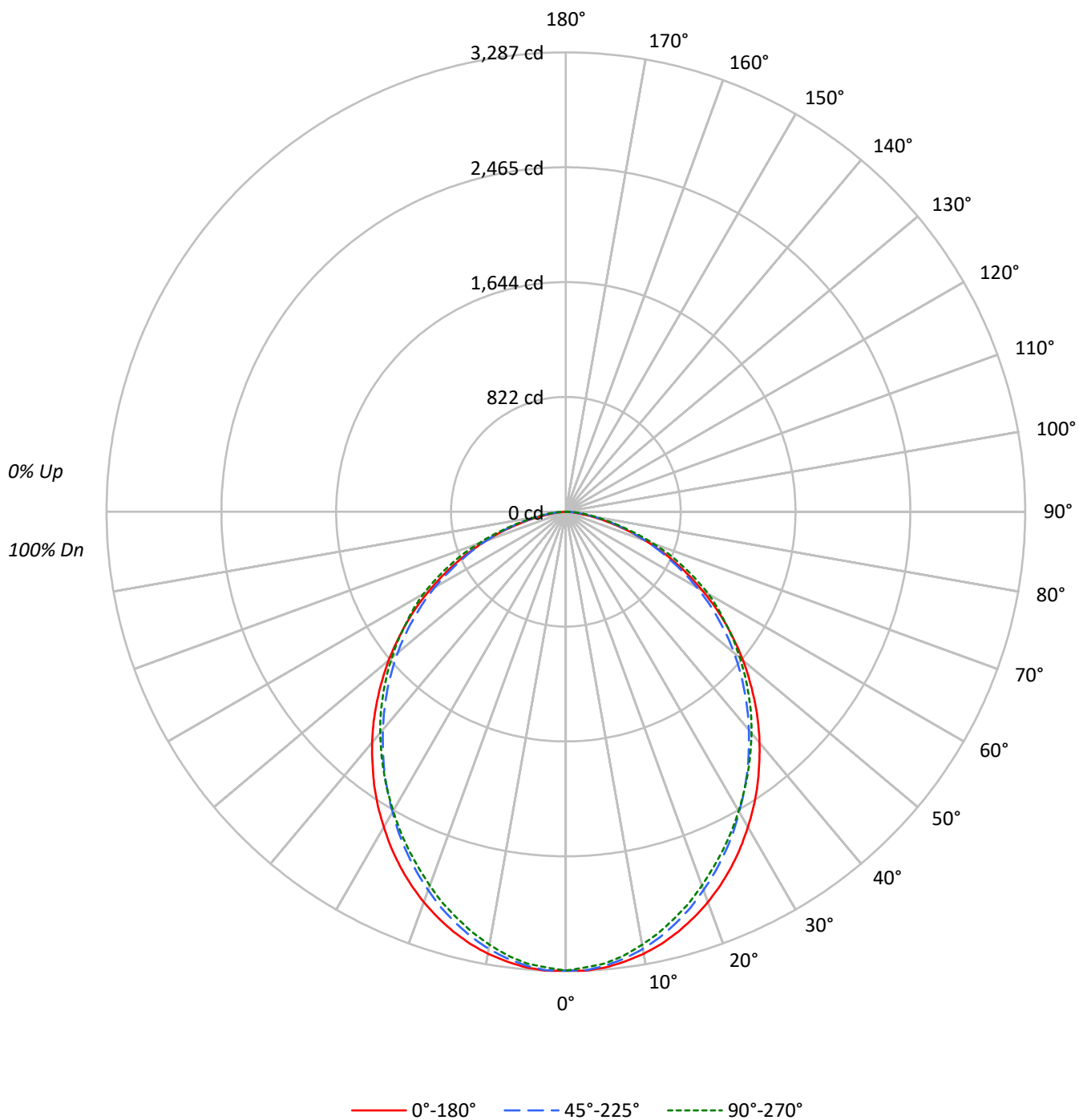
Lumens per Lamp: N/A
Luminaire Lumens: 7857.0 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 102.6
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	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	82	74	67	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	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4418	4418	4418
5°	4419	4402	4381
10°	4387	4339	4298
15°	4332	4243	4192
20°	4256	4124	4076
25°	4161	3996	3957
30°	4048	3854	3840
35°	3927	3719	3732
40°	3787	3578	3631
45°	3632	3438	3518
50°	3467	3289	3402
55°	3274	3115	3279
60°	3039	2915	3170
65°	2765	2656	2947
70°	2399	2388	2627
75°	1915	2032	2157
80°	1325	1570	1712
85°	739	1198	1556

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3632 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.2	3.9
10°-20°	859.2	10.9
20°-30°	1248.0	15.9
30°-40°	1436.3	18.3
40°-50°	1421.6	18.1
50°-60°	1217.2	15.5
60°-70°	858.5	10.9
70°-80°	417.1	5.3
80°-90°	90.8	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°	2415.4	30.7
0°-40°	3851.7	49.0
0°-60°	6490.6	82.6
0°-90°	7857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7857.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3283	3283	3283	3283	3283	
5°	3272	3269	3259	3236	3244	310
15°	3110	3093	3046	3005	3010	876
25°	2803	2762	2692	2658	2665	1290
35°	2391	2335	2264	2256	2272	1494
45°	1909	1857	1807	1829	1849	1472
55°	1396	1349	1328	1368	1398	1246
65°	869	832	834	898	926	859
75°	368	353	391	415	415	398
85°	48	58	78	94	101	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3283.3	3283.3	3283.3	3283.3	3283.3
2.5°	3287.1	3289.8	3283.3	3258.7	3262.9
5°	3272.0	3269.2	3259.4	3236.3	3243.6
7.5°	3245.9	3241.4	3223.8	3196.5	3201.2
10°	3211.2	3202.2	3176.1	3142.0	3146.0
12.5°	3166.2	3154.1	3117.4	3078.7	3083.0
15°	3110.0	3092.7	3045.8	3005.2	3009.5
17.5°	3045.4	3025.6	2969.0	2924.9	2934.2
20°	2972.3	2945.5	2880.3	2838.5	2846.5
22.5°	2891.8	2858.1	2789.7	2749.4	2755.8
25°	2803.0	2762.1	2692.0	2657.5	2665.1
27.5°	2707.4	2662.5	2590.4	2558.9	2570.4
30°	2605.5	2557.0	2480.6	2459.0	2471.5
32.5°	2500.7	2449.2	2373.9	2359.9	2372.6
35°	2390.7	2334.6	2264.4	2256.1	2271.9
37.5°	2272.9	2218.9	2149.7	2155.1	2169.9
40°	2156.3	2100.5	2037.1	2049.1	2067.0
42.5°	2035.0	1981.2	1923.4	1940.1	1961.0
45°	1908.8	1857.4	1806.9	1829.1	1849.0
47.5°	1782.0	1731.1	1690.1	1716.1	1739.8
50°	1656.1	1607.2	1571.3	1602.9	1625.2
52.5°	1524.0	1477.4	1451.7	1485.1	1513.7
55°	1395.9	1348.7	1327.9	1367.5	1398.0
57.5°	1263.6	1224.7	1206.9	1253.5	1291.4
60°	1129.2	1091.0	1083.3	1142.2	1178.1
62.5°	997.9	960.3	957.0	1025.9	1051.8
65°	868.6	831.5	834.4	898.0	925.8
67.5°	740.5	706.4	722.0	783.1	801.7
70°	609.9	579.6	607.0	658.5	667.7
72.5°	487.4	461.9	499.0	535.1	537.3
75°	368.3	352.6	390.9	414.7	414.9
77.5°	263.7	255.3	290.8	307.0	308.0
80°	171.0	174.7	202.6	215.3	220.9
82.5°	99.7	108.4	130.2	151.8	157.6
85°	47.9	58.5	77.6	94.1	100.8
87.5°	16.6	23.6	32.3	35.8	34.9
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	15.96	17.54	16.32	17.86	18.17	16.13	17.71	16.49	18.03	18.34
	3H	17.41	18.83	17.79	19.16	19.52	17.77	19.20	18.15	19.53	19.89
	4H	17.84	19.17	18.24	19.52	19.90	18.28	19.61	18.67	19.96	20.34
	6H	18.06	19.29	18.47	19.66	20.05	18.57	19.81	18.98	20.17	20.57
	8H	18.09	19.27	18.52	19.66	20.06	18.66	19.84	19.08	20.23	20.63
	12H	18.10	19.23	18.53	19.61	20.04	18.72	19.85	19.15	20.23	20.66
4H	2H	16.47	17.81	16.87	18.16	18.54	16.61	17.95	17.01	18.30	18.68
	3H	18.11	19.22	18.52	19.62	20.02	18.46	19.58	18.87	19.98	20.38
	4H	18.62	19.63	19.05	20.04	20.48	19.08	20.08	19.51	20.50	20.93
	6H	18.92	19.80	19.38	20.24	20.70	19.48	20.35	19.93	20.79	21.25
	8H	18.98	19.80	19.44	20.24	20.70	19.60	20.41	20.06	20.86	21.32
	12H	19.00	19.73	19.48	20.21	20.68	19.70	20.43	20.18	20.90	21.37
8H	4H	18.85	19.66	19.31	20.11	20.57	19.26	20.07	19.72	20.52	20.98
	6H	19.21	19.89	19.71	20.38	20.86	19.74	20.41	20.23	20.90	21.38
	8H	19.30	19.91	19.81	20.42	20.90	19.91	20.52	20.42	21.03	21.51
	12H	19.35	19.89	19.86	20.38	20.94	20.07	20.60	20.58	21.10	21.66
12H	4H	18.86	19.59	19.34	20.07	20.54	19.26	19.99	19.74	20.47	20.94
	6H	19.23	19.84	19.75	20.35	20.84	19.74	20.35	20.25	20.86	21.34
	8H	19.36	19.90	19.87	20.39	20.95	19.96	20.50	20.47	20.99	21.55