

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: P1499170

Luminaire Tested: MAE-G-4-120-1STD-STD-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499170
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-50-90-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

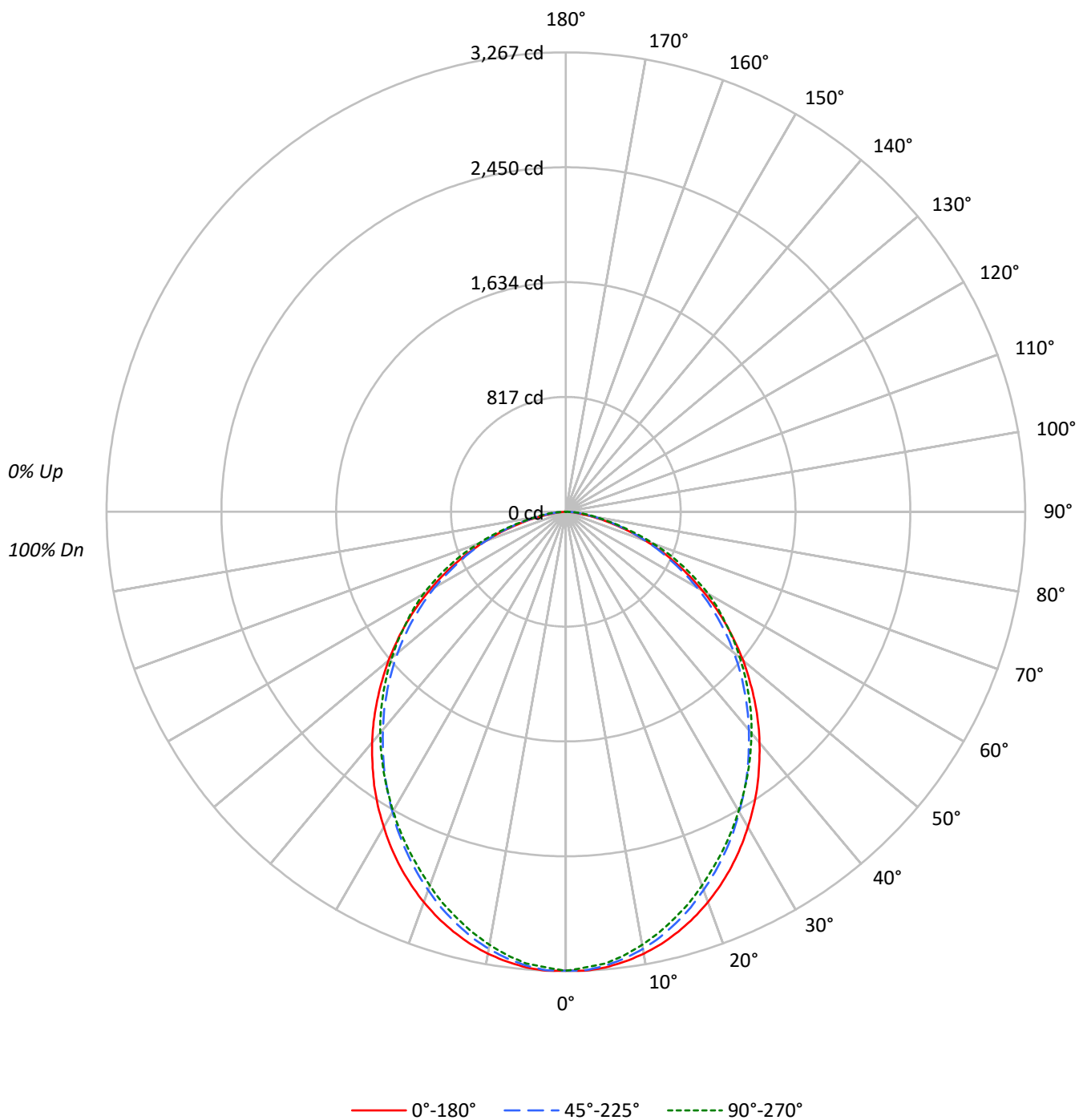
Lumens per Lamp: N/A
Luminaire Lumens: 7810.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	4391	4391	4391
5°	4393	4376	4355
10°	4361	4313	4273
15°	4306	4217	4167
20°	4230	4100	4051
25°	4136	3973	3933
30°	4024	3831	3817
35°	3903	3697	3709
40°	3765	3557	3609
45°	3610	3417	3497
50°	3446	3269	3382
55°	3255	3096	3260
60°	3021	2898	3151
65°	2749	2641	2930
70°	2385	2374	2611
75°	1903	2020	2144
80°	1316	1561	1701
85°	736	1190	1548

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3610 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.3	3.9
10°-20°	854.0	10.9
20°-30°	1240.6	15.9
30°-40°	1427.7	18.3
40°-50°	1413.1	18.1
50°-60°	1210.0	15.5
60°-70°	853.4	10.9
70°-80°	414.6	5.3
80°-90°	90.3	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°	2400.9	30.7
0°-40°	3828.7	49.0
0°-60°	6451.8	82.6
0°-90°	7810.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7810.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3264	3264	3264	3264	3264	
5°	3252	3250	3240	3217	3224	308
15°	3091	3074	3028	2987	2992	871
25°	2786	2746	2676	2642	2649	1282
35°	2376	2321	2251	2243	2258	1485
45°	1897	1846	1796	1818	1838	1464
55°	1388	1340	1320	1359	1390	1239
65°	863	827	829	893	920	854
75°	366	350	389	412	412	395
85°	48	58	77	94	100	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3263.6	3263.6	3263.6	3263.6	3263.6
2.5°	3267.4	3270.1	3263.6	3239.2	3243.4
5°	3252.4	3249.6	3239.9	3217.0	3224.2
7.5°	3226.4	3221.9	3204.5	3177.3	3182.0
10°	3191.9	3183.0	3157.0	3123.2	3127.2
12.5°	3147.3	3135.3	3098.7	3060.3	3064.5
15°	3091.4	3074.1	3027.6	2987.2	2991.5
17.5°	3027.2	3007.6	2951.2	2907.4	2916.7
20°	2954.5	2927.9	2863.1	2821.6	2829.5
22.5°	2874.5	2841.0	2773.0	2733.0	2739.2
25°	2786.3	2745.7	2675.9	2641.6	2649.2
27.5°	2691.2	2646.6	2574.9	2543.5	2555.1
30°	2589.9	2541.8	2465.8	2444.2	2456.8
32.5°	2485.8	2434.7	2359.7	2345.9	2358.4
35°	2376.4	2320.6	2250.9	2242.6	2258.3
37.5°	2259.4	2205.8	2136.9	2142.2	2157.0
40°	2143.4	2087.9	2025.0	2036.9	2054.7
42.5°	2022.9	1969.3	1911.9	1928.6	1949.4
45°	1897.3	1846.2	1796.0	1818.1	1838.0
47.5°	1771.3	1720.7	1679.9	1705.8	1729.4
50°	1646.2	1597.6	1561.9	1593.2	1615.5
52.5°	1514.9	1468.6	1443.0	1476.1	1504.7
55°	1387.6	1340.5	1320.0	1359.3	1389.6
57.5°	1256.1	1217.5	1199.7	1246.0	1283.7
60°	1122.5	1084.4	1076.8	1135.3	1171.1
62.5°	992.0	954.6	951.2	1019.8	1045.5
65°	863.4	826.6	829.4	892.6	920.3
67.5°	736.0	702.2	717.8	778.4	796.9
70°	606.3	576.1	603.4	654.5	663.7
72.5°	484.5	459.0	496.0	531.8	534.1
75°	366.1	350.5	388.6	412.3	412.4
77.5°	262.1	253.8	289.0	305.1	306.1
80°	169.9	173.7	201.4	214.0	219.5
82.5°	99.1	107.8	129.5	150.9	156.6
85°	47.7	58.1	77.1	93.5	100.3
87.5°	16.5	23.5	32.2	35.7	34.7
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	15.94	17.52	16.30	17.84	18.15	16.11	17.69	16.47	18.01	18.32
	3H	17.39	18.81	17.76	19.14	19.50	17.75	19.18	18.13	19.50	19.87
	4H	17.82	19.15	18.21	19.50	19.88	18.25	19.59	18.65	19.94	20.32
	6H	18.04	19.27	18.45	19.64	20.03	18.55	19.79	18.96	20.15	20.54
	8H	18.07	19.25	18.50	19.64	20.04	18.64	19.82	19.06	20.21	20.61
	12H	18.08	19.21	18.50	19.59	20.02	18.70	19.83	19.13	20.21	20.64
4H	2H	16.45	17.79	16.85	18.14	18.52	16.59	17.93	16.99	18.28	18.66
	3H	18.09	19.20	18.50	19.60	20.00	18.44	19.56	18.85	19.95	20.35
	4H	18.60	19.61	19.03	20.02	20.46	19.06	20.06	19.49	20.47	20.91
	6H	18.90	19.78	19.36	20.22	20.68	19.45	20.33	19.91	20.77	21.23
	8H	18.96	19.77	19.42	20.22	20.68	19.58	20.39	20.04	20.84	21.30
	12H	18.98	19.71	19.46	20.19	20.66	19.67	20.41	20.16	20.88	21.35
8H	4H	18.83	19.64	19.29	20.09	20.55	19.24	20.05	19.70	20.50	20.96
	6H	19.19	19.87	19.69	20.36	20.83	19.72	20.39	20.21	20.88	21.36
	8H	19.28	19.89	19.79	20.39	20.88	19.89	20.50	20.40	21.01	21.49
	12H	19.33	19.87	19.84	20.36	20.92	20.05	20.58	20.56	21.07	21.64
12H	4H	18.84	19.57	19.32	20.05	20.52	19.24	19.97	19.72	20.44	20.91
	6H	19.21	19.82	19.73	20.33	20.82	19.72	20.33	20.23	20.84	21.32
	8H	19.34	19.88	19.85	20.37	20.93	19.94	20.48	20.45	20.97	21.53

END OF REPORT