

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: P1499104

Luminaire Tested: MAE-G-4-120-1STD-HI-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499104
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-HI-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

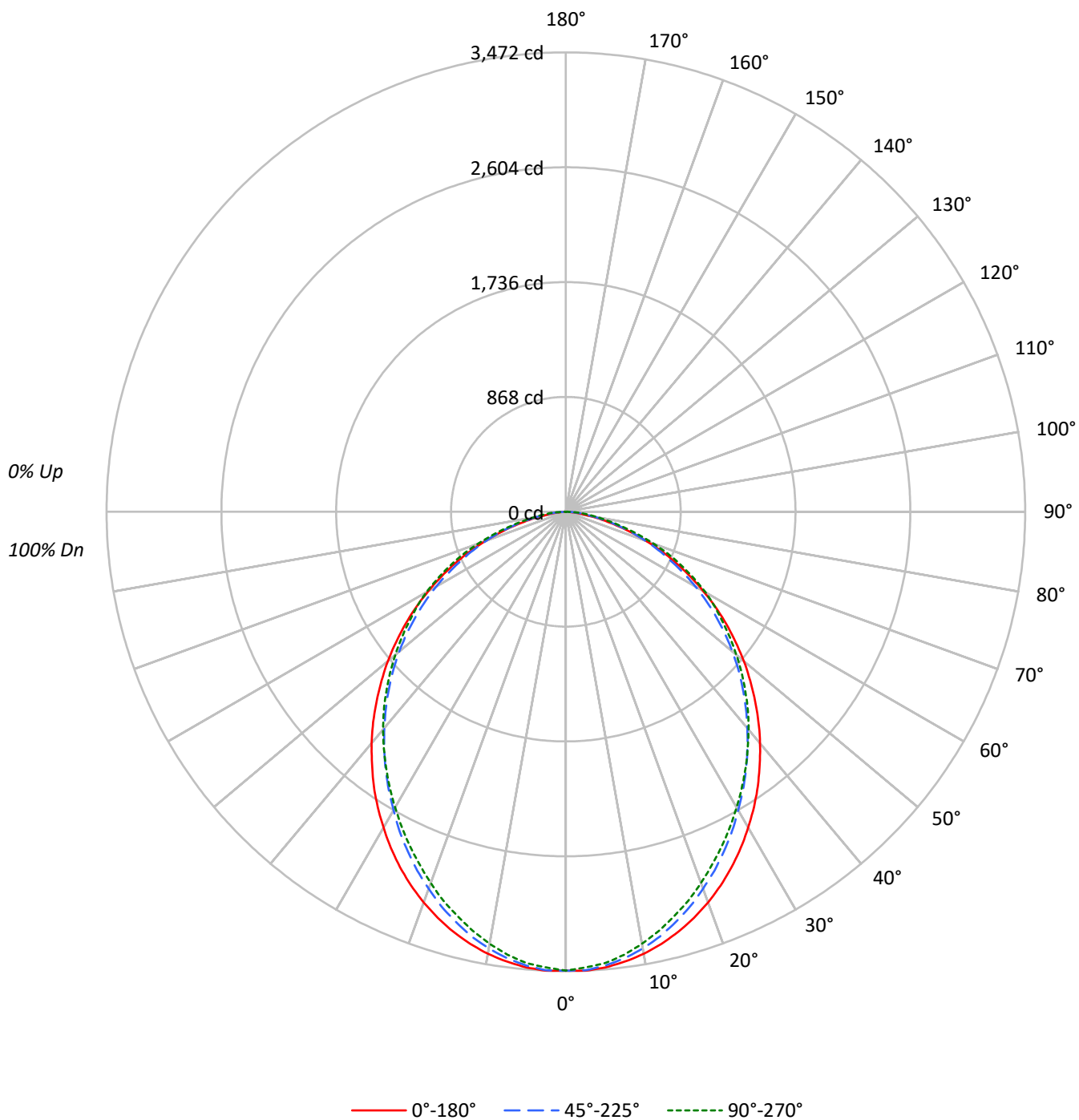
Lumens per Lamp: N/A
Luminaire Lumens: 8262.0 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 123
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	109	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	77		84	79	76		81
3	92	81	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	60	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°	4666	4666	4666
5°	4668	4649	4624
10°	4635	4579	4530
15°	4578	4472	4408
20°	4499	4341	4276
25°	4401	4202	4141
30°	4283	4047	4010
35°	4157	3901	3888
40°	4011	3749	3775
45°	3849	3599	3650
50°	3676	3440	3521
55°	3475	3256	3390
60°	3229	3046	3279
65°	2942	2781	3074
70°	2557	2515	2779
75°	2045	2168	2342
80°	1420	1714	1915
85°	795	1332	1758

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3849 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.4	3.9
10°-20°	905.5	11.0
20°-30°	1312.6	15.9
30°-40°	1507.7	18.2
40°-50°	1489.6	18.0
50°-60°	1273.7	15.4
60°-70°	901.4	10.9
70°-80°	445.9	5.4
80°-90°	100.2	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°	2543.5	30.8
0°-40°	4051.2	49.0
0°-60°	6814.5	82.5
0°-90°	8262.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8262.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3468	3468	3468	3468	3468	
5°	3456	3454	3442	3416	3424	328
15°	3286	3266	3211	3161	3164	926
25°	2964	2916	2830	2784	2789	1364
35°	2531	2464	2375	2355	2367	1581
45°	2023	1960	1891	1903	1918	1560
55°	1482	1423	1388	1418	1445	1323
65°	924	878	874	937	966	914
75°	393	374	417	447	451	424
85°	52	64	86	106	114	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3467.9	3467.9	3467.9	3467.9	3467.9
2.5°	3471.9	3475.0	3467.9	3441.1	3446.3
5°	3456.3	3453.5	3442.3	3415.9	3423.8
7.5°	3428.9	3423.7	3403.6	3371.9	3376.8
10°	3392.5	3382.2	3351.8	3311.9	3315.6
12.5°	3345.2	3331.0	3288.0	3242.0	3245.5
15°	3286.3	3266.1	3210.6	3161.0	3164.3
17.5°	3218.7	3194.7	3127.2	3073.2	3081.4
20°	3142.1	3110.1	3032.0	2979.8	2986.1
22.5°	3057.4	3017.6	2934.9	2883.6	2887.4
25°	2964.2	2916.2	2830.1	2784.2	2789.0
27.5°	2863.9	2810.8	2721.3	2678.3	2686.9
30°	2756.9	2699.3	2604.9	2571.5	2580.8
32.5°	2646.6	2585.1	2491.4	2465.6	2475.0
35°	2530.7	2463.8	2374.9	2355.0	2367.2
37.5°	2406.8	2341.9	2253.5	2247.4	2258.5
40°	2283.7	2216.8	2134.4	2134.9	2149.0
42.5°	2155.8	2090.7	2014.1	2019.7	2036.5
45°	2023.0	1959.8	1891.2	1902.7	1918.3
47.5°	1889.1	1826.9	1768.4	1783.8	1803.2
50°	1756.3	1696.0	1643.3	1664.5	1682.2
52.5°	1616.3	1559.2	1517.7	1541.0	1565.4
55°	1481.5	1423.4	1388.2	1418.2	1445.0
57.5°	1341.7	1292.5	1261.3	1299.8	1334.4
60°	1200.0	1151.9	1132.0	1184.6	1218.6
62.5°	1061.0	1014.0	1000.8	1065.7	1092.0
65°	924.2	878.2	873.5	937.4	965.5
67.5°	788.0	746.5	757.1	821.1	840.7
70°	649.9	612.5	639.3	694.8	706.3
72.5°	519.5	488.6	528.1	569.9	574.6
75°	393.3	373.5	417.1	447.3	450.6
77.5°	281.8	271.4	313.3	336.2	340.2
80°	183.2	187.1	221.2	240.0	247.2
82.5°	107.0	117.1	144.2	169.8	177.2
85°	51.5	63.6	86.3	105.7	113.9
87.5°	17.7	25.8	36.3	40.3	39.2
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	16.17	17.75	16.53	18.06	18.38	16.20	17.79	16.57	18.10	18.41
	3H	17.63	19.05	18.00	19.38	19.74	17.89	19.31	18.26	19.64	20.00
	4H	18.06	19.40	18.46	19.75	20.12	18.42	19.76	18.82	20.11	20.49
	6H	18.28	19.52	18.69	19.89	20.28	18.76	20.00	19.17	20.36	20.75
	8H	18.32	19.50	18.74	19.89	20.29	18.86	20.04	19.29	20.43	20.83
	12H	18.33	19.46	18.76	19.84	20.27	18.94	20.07	19.37	20.45	20.88
4H	2H	16.67	18.01	17.07	18.36	18.73	16.70	18.04	17.10	18.39	18.76
	3H	18.32	19.43	18.73	19.83	20.23	18.59	19.71	19.00	20.10	20.51
	4H	18.84	19.84	19.27	20.26	20.69	19.25	20.25	19.68	20.67	21.10
	6H	19.14	20.02	19.60	20.46	20.92	19.69	20.57	20.14	21.01	21.46
	8H	19.20	20.02	19.66	20.46	20.93	19.83	20.65	20.29	21.09	21.56
	12H	19.23	19.96	19.71	20.43	20.90	19.94	20.68	20.43	21.15	21.62
8H	4H	19.07	19.88	19.53	20.33	20.79	19.44	20.25	19.90	20.70	21.16
	6H	19.44	20.12	19.94	20.61	21.09	19.97	20.65	20.46	21.13	21.61
	8H	19.53	20.14	20.05	20.65	21.14	20.17	20.78	20.68	21.28	21.77
	12H	19.59	20.13	20.10	20.62	21.18	20.35	20.88	20.86	21.37	21.94
12H	4H	19.08	19.81	19.56	20.29	20.76	19.44	20.17	19.92	20.65	21.12
	6H	19.47	20.08	19.98	20.58	21.07	19.98	20.58	20.49	21.09	21.58
	8H	19.60	20.14	20.11	20.63	21.19	20.22	20.76	20.73	21.25	21.81

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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