

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: P1499119

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499119
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-40-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

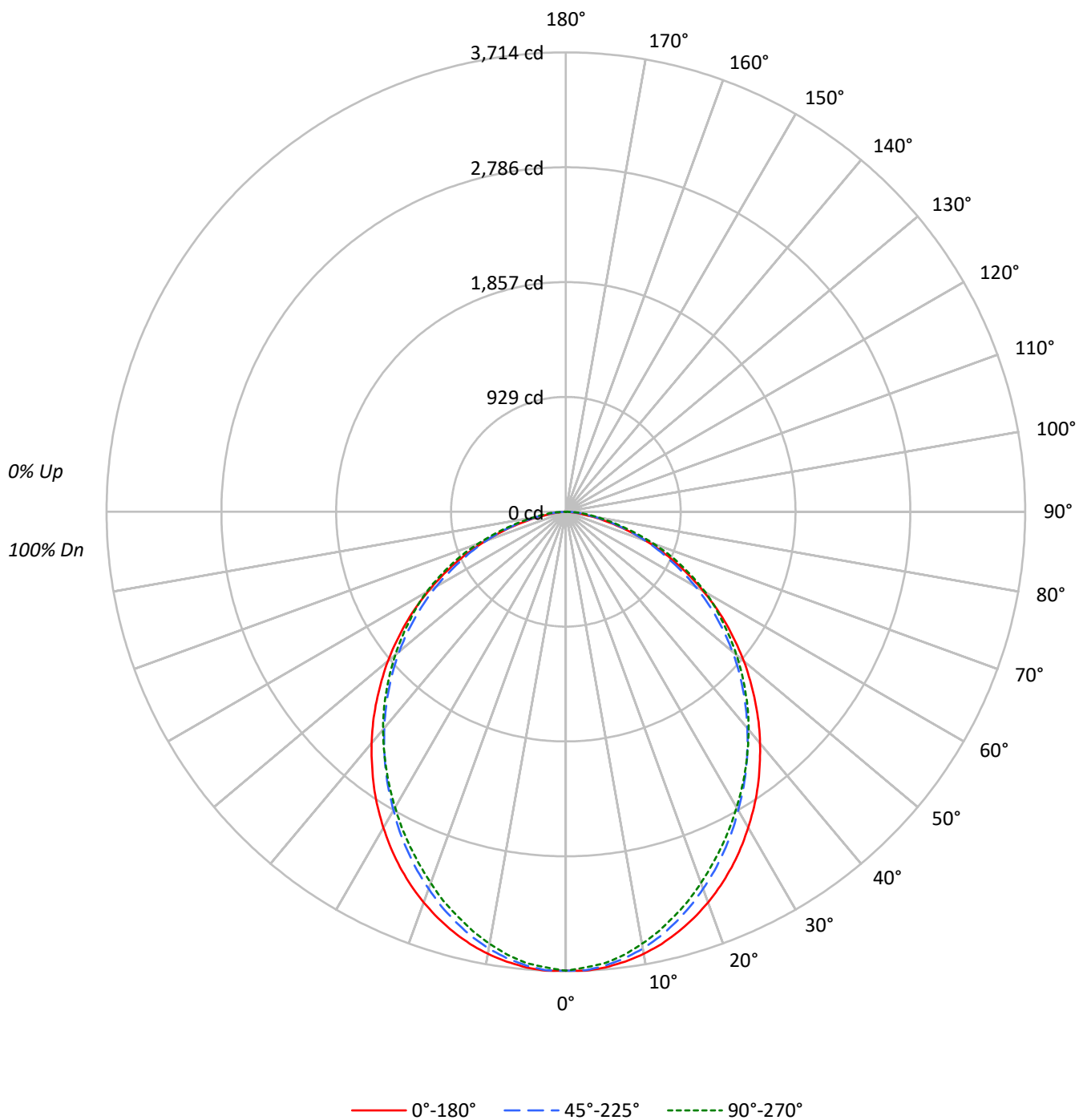
Lumens per Lamp: N/A
Luminaire Lumens: 8839.0 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	4992	4992	4992
5°	4994	4974	4947
10°	4959	4899	4846
15°	4897	4785	4716
20°	4813	4644	4574
25°	4708	4495	4430
30°	4582	4330	4290
35°	4447	4173	4160
40°	4291	4011	4038
45°	4118	3850	3905
50°	3933	3680	3767
55°	3718	3484	3627
60°	3455	3259	3508
65°	3148	2975	3289
70°	2735	2690	2972
75°	2188	2320	2506
80°	1519	1833	2049
85°	852	1426	1880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4118 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.1	3.9
10°-20°	968.7	11.0
20°-30°	1404.3	15.9
30°-40°	1613.0	18.2
40°-50°	1593.6	18.0
50°-60°	1362.7	15.4
60°-70°	964.3	10.9
70°-80°	477.0	5.4
80°-90°	107.2	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°	2721.1	30.8
0°-40°	4334.1	49.0
0°-60°	7290.4	82.5
0°-90°	8839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8839.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3710	3710	3710	3710	3710	
5°	3698	3695	3683	3654	3663	351
15°	3516	3494	3435	3382	3385	991
25°	3171	3120	3028	2979	2984	1460
35°	2707	2636	2541	2520	2533	1691
45°	2164	2097	2023	2036	2052	1669
55°	1585	1523	1485	1517	1546	1415
65°	989	940	934	1003	1033	978
75°	421	400	446	479	482	454
85°	55	68	92	113	122	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3710.2	3710.2	3710.2	3710.2	3710.2
2.5°	3714.3	3717.7	3710.2	3681.3	3687.0
5°	3697.6	3694.6	3682.7	3654.4	3662.9
7.5°	3668.4	3662.8	3641.3	3607.3	3612.7
10°	3629.5	3618.5	3586.0	3543.2	3547.2
12.5°	3578.9	3563.6	3517.6	3468.3	3472.3
15°	3515.8	3494.1	3434.8	3381.8	3385.3
17.5°	3443.5	3417.8	3345.6	3287.9	3296.6
20°	3361.6	3327.3	3243.7	3187.9	3194.5
22.5°	3271.0	3228.3	3139.9	3085.0	3089.1
25°	3171.3	3119.7	3027.8	2978.7	2983.8
27.5°	3063.9	3007.1	2911.3	2865.4	2874.6
30°	2949.4	2887.8	2786.7	2751.1	2761.0
32.5°	2831.5	2765.6	2665.5	2637.8	2647.9
35°	2707.4	2635.9	2540.7	2519.5	2532.6
37.5°	2574.9	2505.5	2410.9	2404.4	2416.2
40°	2443.2	2371.5	2283.4	2284.0	2299.1
42.5°	2306.3	2236.6	2154.8	2160.7	2178.7
45°	2164.2	2096.6	2023.3	2035.5	2052.2
47.5°	2021.0	1954.5	1891.9	1908.3	1929.2
50°	1878.9	1814.4	1758.1	1780.8	1799.6
52.5°	1729.3	1668.0	1623.7	1648.7	1674.7
55°	1584.9	1522.8	1485.1	1517.2	1546.0
57.5°	1435.4	1382.7	1349.4	1390.6	1427.6
60°	1283.8	1232.3	1211.0	1267.3	1303.7
62.5°	1135.0	1084.8	1070.7	1140.2	1168.3
65°	988.7	939.6	934.5	1002.9	1033.0
67.5°	843.0	798.5	809.9	878.4	899.4
70°	695.2	655.3	683.9	743.3	755.6
72.5°	555.8	522.7	565.1	609.8	614.8
75°	420.8	399.6	446.2	478.6	482.0
77.5°	301.5	290.4	335.2	359.7	364.0
80°	196.0	200.2	236.6	256.7	264.5
82.5°	114.5	125.3	154.2	181.6	189.6
85°	55.2	68.1	92.4	113.1	121.8
87.5°	18.9	27.6	38.7	43.1	41.9
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	16.40	17.98	16.77	18.30	18.61	16.44	18.02	16.80	18.33	18.65
	3H	17.86	19.28	18.24	19.61	19.97	18.12	19.55	18.50	19.87	20.23
	4H	18.29	19.63	18.69	19.98	20.36	18.66	20.00	19.06	20.35	20.72
	6H	18.52	19.76	18.93	20.12	20.51	18.99	20.23	19.41	20.60	20.99
	8H	18.55	19.74	18.98	20.12	20.52	19.10	20.28	19.52	20.67	21.07
	12H	18.56	19.69	18.99	20.07	20.50	19.17	20.30	19.60	20.68	21.11
4H	2H	16.90	18.24	17.30	18.59	18.97	16.93	18.27	17.33	18.62	19.00
	3H	18.55	19.67	18.96	20.07	20.47	18.83	19.94	19.23	20.34	20.74
	4H	19.07	20.08	19.50	20.49	20.93	19.48	20.49	19.91	20.90	21.34
	6H	19.38	20.25	19.83	20.69	21.15	19.92	20.80	20.38	21.24	21.70
	8H	19.44	20.25	19.90	20.70	21.16	20.07	20.88	20.53	21.33	21.79
	12H	19.46	20.19	19.94	20.67	21.14	20.18	20.91	20.66	21.39	21.86
8H	4H	19.30	20.12	19.76	20.56	21.03	19.67	20.49	20.13	20.93	21.40
	6H	19.68	20.35	20.17	20.84	21.32	20.20	20.88	20.70	21.37	21.85
	8H	19.77	20.38	20.28	20.88	21.37	20.40	21.01	20.92	21.52	22.01
	12H	19.83	20.36	20.33	20.85	21.41	20.58	21.12	21.09	21.61	22.17
12H	4H	19.32	20.05	19.80	20.53	21.00	19.67	20.40	20.15	20.88	21.35
	6H	19.70	20.31	20.21	20.82	21.31	20.21	20.82	20.72	21.33	21.81
	8H	19.84	20.37	20.35	20.86	21.43	20.46	20.99	20.97	21.48	22.05