

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: P1499347

Luminaire Tested: MAE-G-4-120-2LO-STD-30-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499347
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-4-120-2LO-STD-30-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

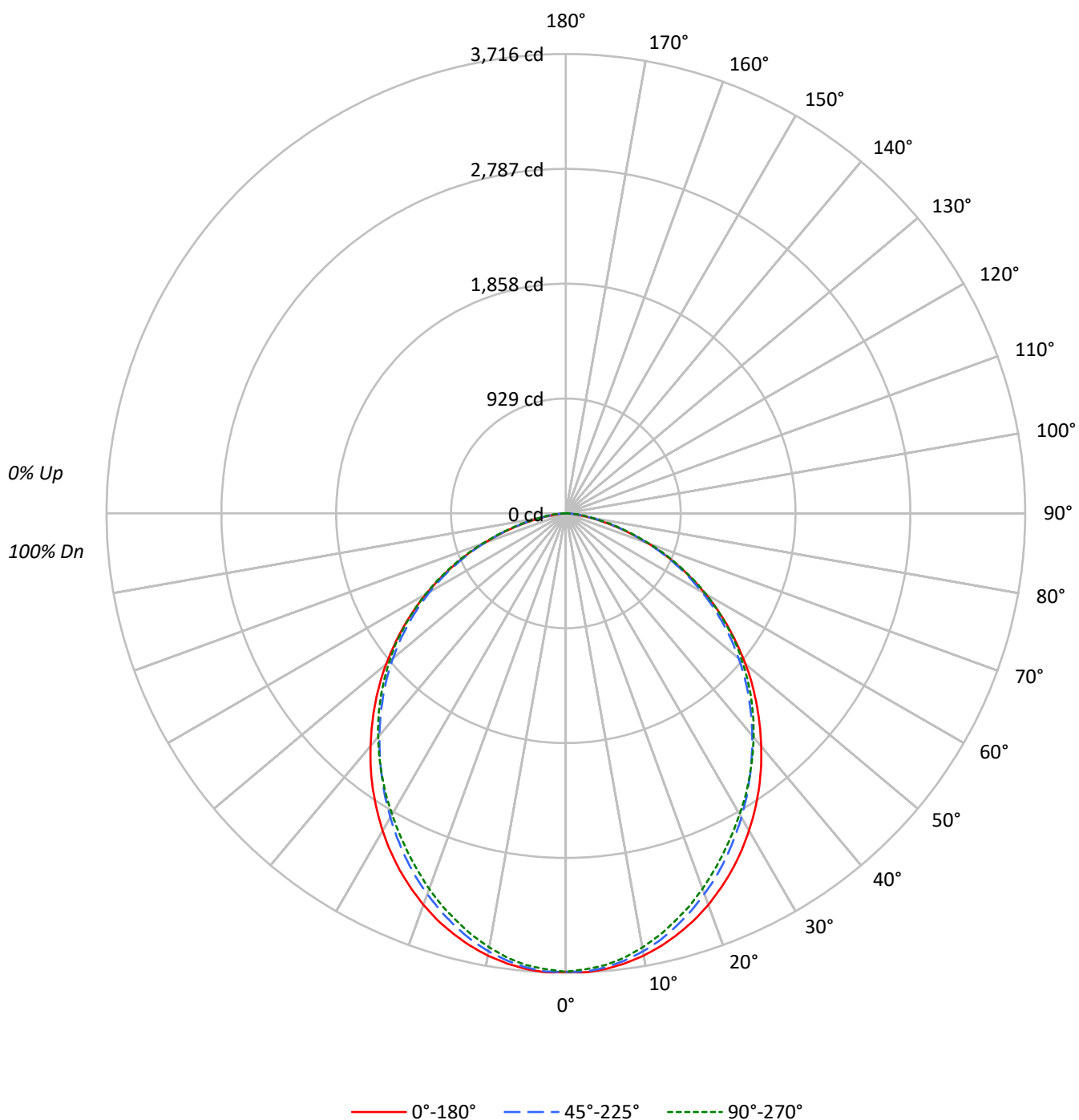
Lumens per Lamp: N/A
Luminaire Lumens: 8968.0 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 116.5
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	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	85	79	87	82	78		84	80	76		81
3	92	82	74	68	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	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4990	4990	4990
5°	4997	4979	4954
10°	4963	4915	4870
15°	4903	4815	4755
20°	4824	4692	4628
25°	4724	4558	4490
30°	4605	4412	4367
35°	4471	4262	4258
40°	4318	4121	4150
45°	4153	3977	4036
50°	3972	3822	3898
55°	3764	3642	3734
60°	3514	3421	3531
65°	3200	3134	3237
70°	2768	2762	2841
75°	2211	2282	2323
80°	1508	1652	1734
85°	787	1159	1514

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4153 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.5	3.9
10°-20°	973.8	10.9
20°-30°	1419.8	15.8
30°-40°	1641.9	18.3
40°-50°	1634.4	18.2
50°-60°	1405.1	15.7
60°-70°	985.0	11.0
70°-80°	466.6	5.2
80°-90°	92.9	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°	2742.1	30.6
0°-40°	4384.0	48.9
0°-60°	7423.5	82.8
0°-90°	8968.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8968.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3709	3709	3709	3709	3709	
5°	3700	3688	3687	3663	3668	351
15°	3520	3494	3457	3412	3414	992
25°	3182	3139	3070	3023	3025	1465
35°	2722	2665	2595	2580	2593	1701
45°	2182	2129	2090	2105	2121	1683
55°	1604	1561	1552	1579	1592	1433
65°	1005	979	984	1005	1017	994
75°	425	416	439	445	447	458
85°	51	59	75	91	98	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3708.8	3708.8	3708.8	3708.8	3708.8
2.5°	3715.9	3705.8	3708.8	3690.2	3690.7
5°	3699.9	3688.0	3686.8	3662.7	3668.2
7.5°	3671.5	3656.8	3649.0	3620.9	3625.5
10°	3632.5	3613.5	3597.8	3562.7	3564.8
12.5°	3582.1	3559.7	3534.1	3493.1	3496.1
15°	3519.6	3493.6	3456.8	3412.3	3413.5
17.5°	3450.5	3421.1	3371.3	3323.7	3328.4
20°	3369.2	3335.8	3277.1	3227.6	3232.0
22.5°	3278.7	3240.3	3178.2	3128.4	3129.2
25°	3181.8	3138.7	3069.9	3023.3	3024.7
27.5°	3077.0	3028.8	2957.1	2914.1	2918.1
30°	2964.1	2912.8	2839.7	2804.3	2810.7
32.5°	2845.3	2792.0	2719.9	2694.8	2705.8
35°	2722.2	2665.2	2595.0	2580.3	2592.6
37.5°	2593.6	2537.4	2471.4	2466.9	2479.6
40°	2458.3	2404.0	2346.1	2348.5	2362.6
42.5°	2321.6	2268.9	2219.4	2229.0	2244.4
45°	2182.4	2129.4	2090.0	2104.9	2121.3
47.5°	2043.1	1990.5	1960.3	1979.6	1994.3
50°	1897.7	1849.0	1826.1	1848.7	1862.3
52.5°	1749.6	1704.3	1690.5	1715.8	1734.2
55°	1604.5	1561.2	1552.5	1578.7	1591.8
57.5°	1454.9	1418.3	1414.1	1438.7	1452.5
60°	1305.8	1271.6	1271.1	1297.3	1312.2
62.5°	1155.1	1124.2	1128.6	1153.5	1165.2
65°	1005.0	979.1	984.3	1005.0	1016.8
67.5°	856.3	833.0	843.3	866.1	872.1
70°	703.6	685.8	702.0	719.3	722.3
72.5°	562.2	546.6	566.3	578.6	579.0
75°	425.4	415.6	439.0	444.7	446.9
77.5°	301.0	299.9	317.5	323.7	326.7
80°	194.6	200.9	213.2	222.7	223.8
82.5°	110.2	117.6	130.3	148.8	156.0
85°	51.0	58.7	75.1	91.1	98.1
87.5°	17.2	23.0	31.8	34.5	32.8
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	16.51	18.10	16.88	18.41	18.73	16.60	18.18	16.96	18.49	18.81
	3H	17.99	19.41	18.36	19.74	20.10	18.12	19.55	18.50	19.87	20.23
	4H	18.42	19.76	18.82	20.10	20.48	18.58	19.92	18.98	20.27	20.64
	6H	18.63	19.87	19.04	20.23	20.63	18.83	20.07	19.25	20.44	20.83
	8H	18.66	19.84	19.09	20.23	20.63	18.90	20.08	19.32	20.47	20.87
	12H	18.66	19.79	19.09	20.17	20.60	18.94	20.07	19.37	20.45	20.88
4H	2H	17.05	18.39	17.45	18.74	19.12	17.12	18.46	17.52	18.81	19.18
	3H	18.71	19.82	19.12	20.22	20.62	18.84	19.95	19.25	20.35	20.75
	4H	19.22	20.23	19.66	20.64	21.08	19.39	20.40	19.83	20.81	21.25
	6H	19.52	20.39	19.97	20.83	21.29	19.74	20.61	20.19	21.05	21.51
	8H	19.57	20.38	20.03	20.82	21.29	19.83	20.65	20.29	21.09	21.56
	12H	19.58	20.31	20.06	20.79	21.26	19.90	20.63	20.38	21.11	21.58
8H	4H	19.42	20.24	19.88	20.68	21.15	19.58	20.39	20.04	20.84	21.30
	6H	19.78	20.45	20.27	20.94	21.42	19.99	20.66	20.48	21.15	21.63
	8H	19.85	20.46	20.36	20.96	21.45	20.12	20.73	20.64	21.23	21.72
	12H	19.89	20.43	20.40	20.92	21.48	20.24	20.77	20.75	21.27	21.83
12H	4H	19.43	20.16	19.91	20.63	21.10	19.58	20.31	20.06	20.78	21.25
	6H	19.78	20.39	20.30	20.90	21.38	19.99	20.59	20.50	21.10	21.59
	8H	19.90	20.43	20.40	20.92	21.48	20.16	20.70	20.67	21.19	21.75