

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: P1499371

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499371
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-4-120-2STD-30-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

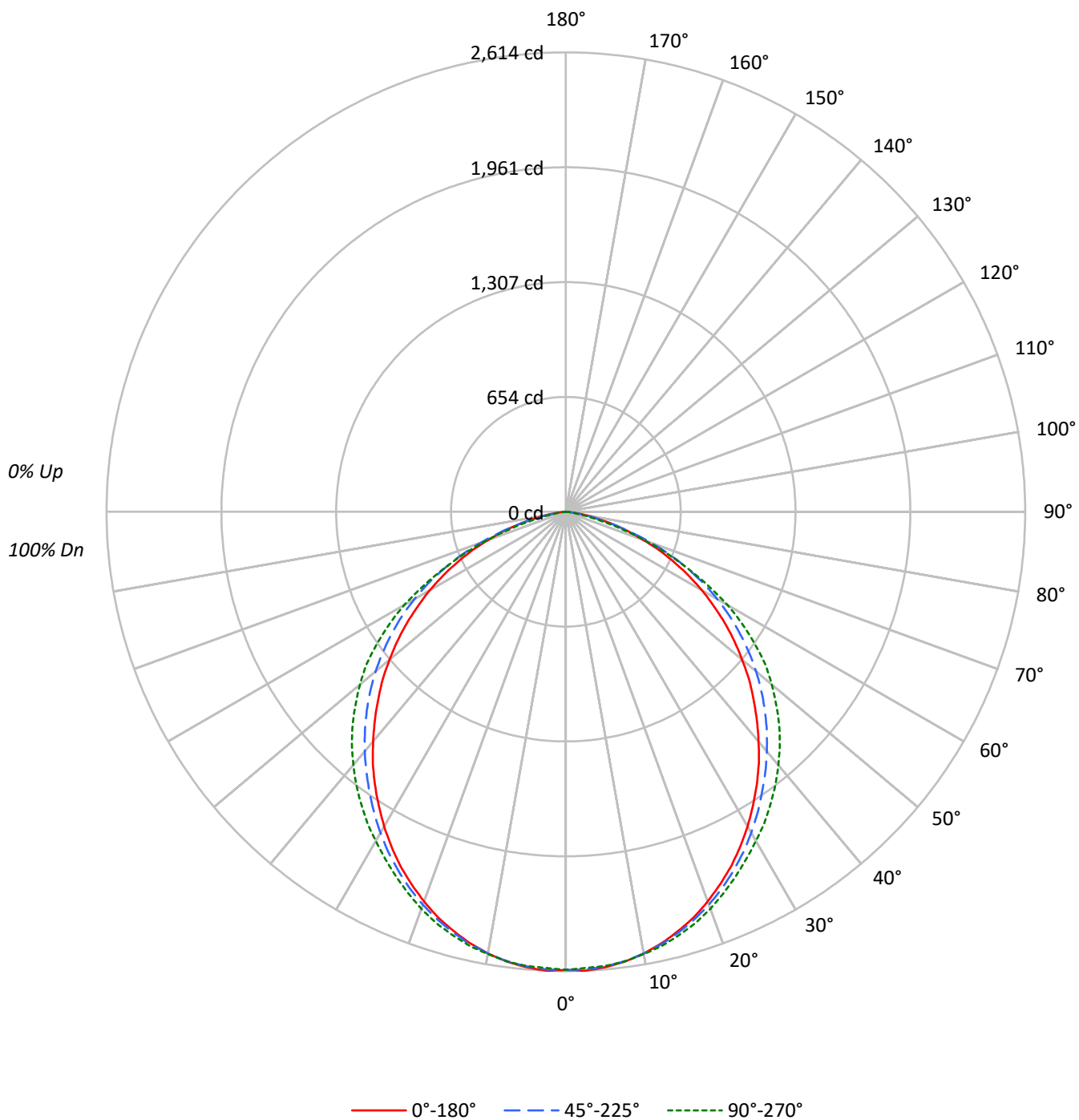
Lumens per Lamp: N/A
Luminaire Lumens: 6580.0 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 68.3
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	102	98	107	103	100	97	99	96	93		95	93	91		92
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72
4	84	73	64	58	82	71	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	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	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3507	3507	3507
5°	3514	3508	3504
10°	3487	3487	3491
15°	3440	3452	3473
20°	3379	3407	3442
25°	3303	3347	3397
30°	3212	3278	3361
35°	3111	3199	3335
40°	2996	3127	3304
45°	2873	3048	3267
50°	2740	2957	3202
55°	2589	2838	3081
60°	2406	2680	2861
65°	2170	2435	2449
70°	1852	2026	1894
75°	1455	1468	1183
80°	946	755	453
85°	438	287	233

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3267 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.2	3.7
10°-20°	698.3	10.6
20°-30°	1037.3	15.8
30°-40°	1221.8	18.6
40°-50°	1237.8	18.8
50°-60°	1077.4	16.4
60°-70°	734.1	11.2
70°-80°	293.5	4.5
80°-90°	33.6	0.5
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°	1981.8	30.1
0°-40°	3203.6	48.7
0°-60°	5518.8	83.9
0°-90°	6580.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6580.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2607	2607	2607	2607	2607	
5°	2601	2586	2597	2594	2594	247
15°	2470	2459	2478	2487	2493	696
25°	2225	2226	2254	2273	2288	1024
35°	1894	1903	1947	1999	2030	1184
45°	1510	1529	1602	1677	1717	1165
55°	1104	1128	1210	1286	1314	986
65°	682	714	765	766	769	675
75°	280	297	282	243	228	301
85°	28	26	19	17	15	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2606.7	2606.7	2606.7	2606.7	2606.7
2.5°	2613.9	2597.1	2606.7	2604.9	2597.9
5°	2601.4	2586.3	2597.1	2593.6	2594.3
7.5°	2581.0	2566.9	2578.5	2577.5	2580.3
10°	2551.9	2537.8	2551.9	2552.7	2555.4
12.5°	2515.5	2503.2	2520.0	2523.5	2529.8
15°	2469.5	2459.0	2478.3	2487.3	2493.4
17.5°	2420.0	2413.0	2432.3	2443.9	2453.7
20°	2359.8	2356.2	2379.3	2390.7	2404.0
22.5°	2294.2	2292.5	2320.1	2334.1	2347.4
25°	2225.2	2226.1	2254.5	2273.1	2288.2
27.5°	2149.1	2150.8	2185.5	2207.6	2226.1
30°	2067.7	2072.2	2110.1	2140.3	2163.3
32.5°	1981.8	1989.8	2030.5	2072.2	2101.3
35°	1894.2	1903.2	1947.4	1998.6	2030.5
37.5°	1804.0	1813.7	1865.0	1925.3	1958.9
40°	1705.8	1720.6	1780.1	1846.4	1880.9
42.5°	1609.1	1625.9	1692.5	1765.0	1802.2
45°	1510.1	1528.7	1602.1	1677.4	1717.1
47.5°	1414.5	1430.3	1509.1	1588.0	1623.4
50°	1309.2	1330.3	1412.7	1491.5	1529.5
52.5°	1208.3	1228.6	1312.7	1393.1	1432.3
55°	1103.8	1127.6	1210.0	1286.1	1313.5
57.5°	998.5	1025.9	1105.5	1168.3	1192.2
60°	894.1	921.4	995.8	1045.3	1063.1
62.5°	788.6	817.0	882.5	912.6	916.2
65°	681.6	713.5	764.7	765.7	769.2
67.5°	579.9	606.3	643.4	632.9	627.6
70°	470.9	500.0	515.1	494.0	481.5
72.5°	374.4	395.6	393.0	361.9	347.1
75°	279.8	296.6	282.3	242.6	227.5
77.5°	193.9	208.0	179.6	142.4	127.6
80°	122.1	128.3	97.4	69.1	58.5
82.5°	65.5	64.6	41.7	34.4	31.9
85°	28.4	25.6	18.6	16.8	15.1
87.5°	9.8	8.8	7.0	6.3	5.3
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	15.28	16.86	15.64	17.17	17.49	16.24	17.82	16.60	18.13	18.45
	3H	16.70	18.12	17.07	18.44	18.80	17.43	18.85	17.80	19.17	19.53
	4H	17.09	18.42	17.49	18.77	19.15	17.64	18.97	18.04	19.32	19.70
	6H	17.26	18.49	17.68	18.86	19.25	17.66	18.89	18.07	19.26	19.65
	8H	17.28	18.45	17.70	18.84	19.24	17.64	18.81	18.06	19.20	19.60
	12H	17.27	18.39	17.70	18.77	19.20	17.61	18.73	18.04	19.11	19.54
4H	2H	15.94	17.27	16.34	17.62	17.99	16.71	18.04	17.11	18.39	18.77
	3H	17.51	18.62	17.92	19.02	19.42	18.06	19.16	18.47	19.56	19.96
	4H	17.99	18.98	18.42	19.40	19.83	18.33	19.32	18.76	19.74	20.17
	6H	18.23	19.09	18.69	19.53	19.99	18.38	19.24	18.84	19.68	20.14
	8H	18.25	19.06	18.72	19.50	19.97	18.36	19.16	18.82	19.60	20.07
	12H	18.25	18.97	18.73	19.45	19.92	18.33	19.05	18.82	19.53	20.00
8H	4H	18.13	18.93	18.59	19.37	19.84	18.44	19.25	18.91	19.69	20.16
	6H	18.40	19.06	18.90	19.55	20.03	18.50	19.16	19.00	19.65	20.13
	8H	18.44	19.03	18.95	19.54	20.03	18.48	19.07	18.99	19.58	20.07
	12H	18.45	18.97	18.96	19.47	20.03	18.46	18.98	18.97	19.48	20.04
12H	4H	18.11	18.83	18.59	19.30	19.77	18.43	19.15	18.91	19.63	20.10
	6H	18.37	18.96	18.88	19.47	19.96	18.48	19.07	18.99	19.58	20.07
	8H	18.44	18.96	18.94	19.45	20.01	18.48	19.00	18.99	19.49	20.06