

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: P1499707

Luminaire Tested: MAE-G-4-120-3STD-LO-30-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-3STD-LO-30-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

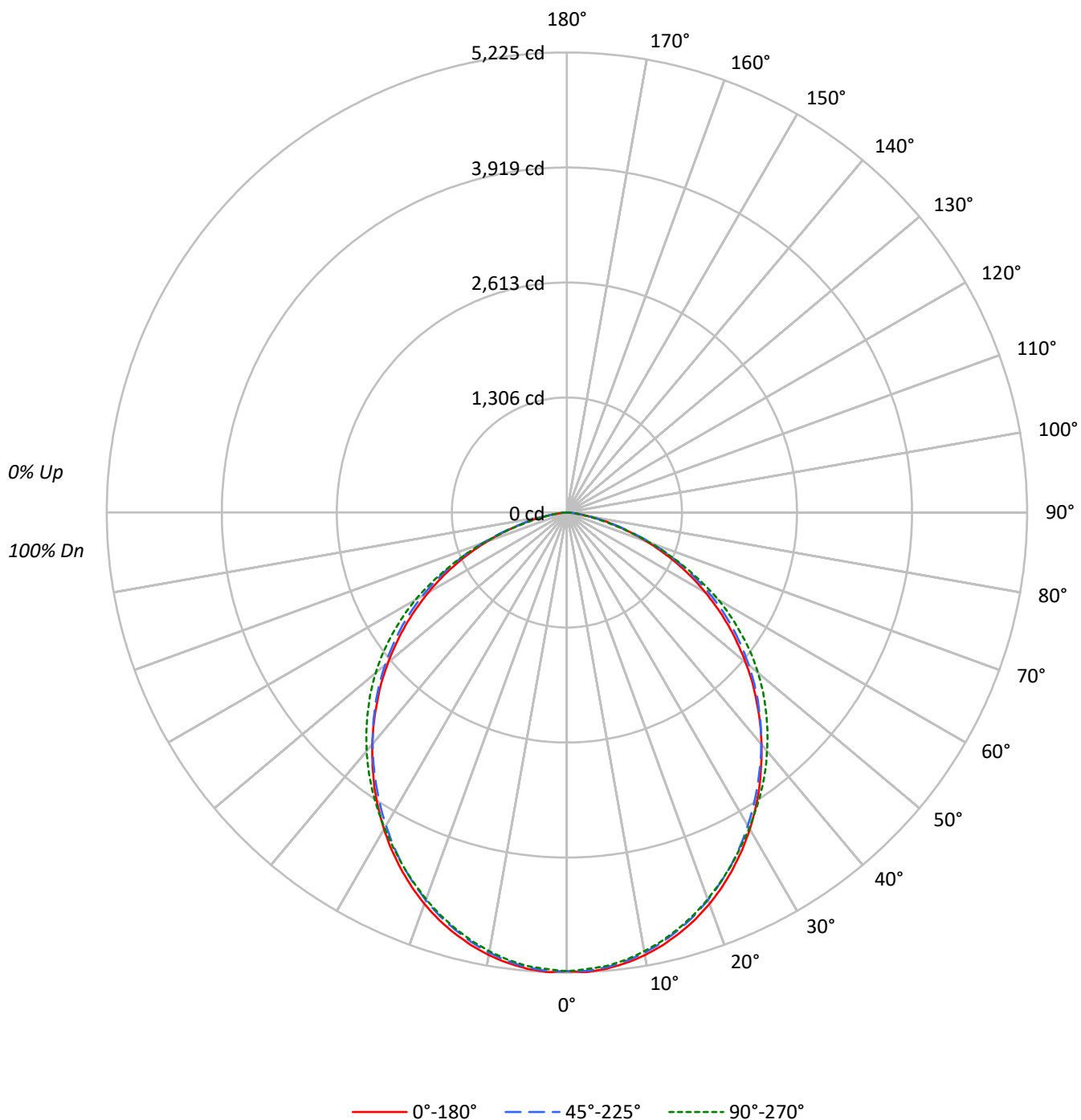
Lumens per Lamp: N/A
Luminaire Lumens: 12899.0 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 150.6
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86		
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	40		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7011	7011	7011
5°	7024	7003	6984
10°	6975	6937	6913
15°	6890	6834	6814
20°	6775	6707	6693
25°	6625	6555	6556
30°	6453	6381	6430
35°	6259	6202	6326
40°	6039	6028	6212
45°	5801	5848	6084
50°	5542	5643	5931
55°	5250	5402	5690
60°	4886	5090	5353
65°	4433	4658	4744
70°	3811	4018	3936
75°	3021	3137	2840
80°	2022	1971	1726
85°	1025	1164	1363

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6084 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.9	3.8
10°-20°	1382.3	10.7
20°-30°	2035.2	15.8
30°-40°	2375.3	18.4
40°-50°	2386.2	18.5
50°-60°	2065.7	16.0
60°-70°	1432.2	11.1
70°-80°	629.1	4.9
80°-90°	102.2	0.8
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°	3908.4	30.3
0°-40°	6283.6	48.7
0°-60°	10735.5	83.2
0°-90°	12899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12899.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5211	5211	5211	5211	5211	
5°	5201	5177	5185	5165	5171	493
15°	4946	4916	4906	4883	4892	1394
25°	4462	4431	4416	4395	4416	2055
35°	3810	3775	3776	3808	3851	2381
45°	3049	3029	3073	3151	3198	2353
55°	2238	2227	2303	2394	2426	1998
65°	1392	1401	1463	1487	1490	1376
75°	581	593	604	569	546	624
85°	66	69	75	85	88	99
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5210.7	5210.7	5210.7	5210.7	5210.7
2.5°	5224.6	5200.4	5210.7	5195.0	5189.5
5°	5200.8	5176.7	5185.2	5164.7	5171.0
7.5°	5160.2	5135.6	5139.4	5118.2	5124.5
10°	5105.1	5077.1	5077.4	5054.4	5059.8
12.5°	5031.9	5004.1	4999.8	4974.4	4984.0
15°	4946.0	4916.4	4905.8	4883.0	4892.1
17.5°	4846.2	4814.7	4802.7	4775.3	4789.5
20°	4731.8	4699.1	4684.5	4654.8	4674.1
22.5°	4603.6	4570.6	4552.8	4528.4	4548.7
25°	4462.5	4430.8	4415.7	4395.1	4416.3
27.5°	4314.2	4279.1	4265.7	4255.3	4278.6
30°	4153.8	4118.3	4107.3	4106.5	4138.9
32.5°	3984.2	3950.5	3944.3	3960.0	3997.0
35°	3810.5	3775.4	3776.0	3808.2	3851.1
37.5°	3623.5	3596.7	3606.1	3654.8	3698.5
40°	3438.4	3410.3	3432.0	3491.3	3536.8
42.5°	3247.2	3224.5	3254.9	3326.9	3369.7
45°	3048.9	3029.4	3073.4	3150.7	3197.5
47.5°	2855.0	2833.9	2887.9	2971.0	3020.8
50°	2647.4	2633.5	2695.7	2786.5	2833.3
52.5°	2442.8	2429.1	2500.6	2595.5	2639.6
55°	2237.9	2227.2	2302.8	2394.2	2425.7
57.5°	2026.2	2026.1	2101.9	2180.7	2212.8
60°	1815.7	1817.1	1891.5	1961.8	1989.2
62.5°	1605.1	1611.3	1679.9	1733.7	1740.5
65°	1392.4	1401.3	1463.0	1486.9	1490.1
67.5°	1177.9	1191.8	1244.5	1251.0	1247.7
70°	968.8	978.8	1021.4	1016.2	1000.4
72.5°	765.8	780.2	802.6	786.0	762.9
75°	581.2	592.7	603.5	568.8	546.4
77.5°	409.2	416.9	415.2	378.5	362.9
80°	260.9	269.3	254.4	233.1	222.7
82.5°	144.8	151.7	139.0	145.0	148.4
85°	66.4	69.2	75.4	84.8	88.3
87.5°	22.7	25.8	30.5	32.2	29.8
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	17.70	19.28	18.06	19.59	19.91	18.23	19.81	18.59	20.13	20.44
	3H	19.14	20.56	19.51	20.89	21.25	19.59	21.02	19.97	21.34	21.70
	4H	19.55	20.89	19.95	21.23	21.61	19.92	21.26	20.32	21.61	21.99
	6H	19.74	20.98	20.16	21.35	21.74	20.04	21.28	20.46	21.64	22.04
	8H	19.77	20.94	20.19	21.33	21.73	20.06	21.23	20.48	21.62	22.02
	12H	19.76	20.89	20.19	21.27	21.70	20.06	21.18	20.49	21.57	22.00
4H	2H	18.30	19.64	18.70	19.99	20.36	18.73	20.07	19.13	20.41	20.79
	3H	19.91	21.02	20.32	21.42	21.82	20.27	21.38	20.68	21.78	22.18
	4H	20.41	21.41	20.84	21.82	22.26	20.69	21.68	21.12	22.10	22.54
	6H	20.68	21.54	21.13	21.99	22.44	20.87	21.73	21.32	22.18	22.63
	8H	20.71	21.52	21.17	21.97	22.43	20.89	21.70	21.35	22.14	22.61
	12H	20.72	21.44	21.20	21.92	22.39	20.91	21.63	21.39	22.11	22.58
8H	4H	20.58	21.39	21.05	21.84	22.30	20.84	21.65	21.30	22.09	22.56
	6H	20.90	21.57	21.39	22.06	22.53	21.06	21.72	21.55	22.21	22.69
	8H	20.96	21.56	21.47	22.06	22.55	21.10	21.70	21.61	22.21	22.69
	12H	20.99	21.51	21.49	22.01	22.57	21.14	21.67	21.65	22.16	22.72
12H	4H	20.58	21.30	21.06	21.78	22.25	20.83	21.56	21.31	22.03	22.50
	6H	20.89	21.49	21.40	21.99	22.48	21.04	21.64	21.56	22.15	22.64
	8H	20.98	21.50	21.49	22.00	22.56	21.12	21.65	21.63	22.14	22.70