

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: P1498933

Luminaire Tested: MAE-G-4-120-1HI-HI-50-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498933
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-4-120-1HI-HI-50-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

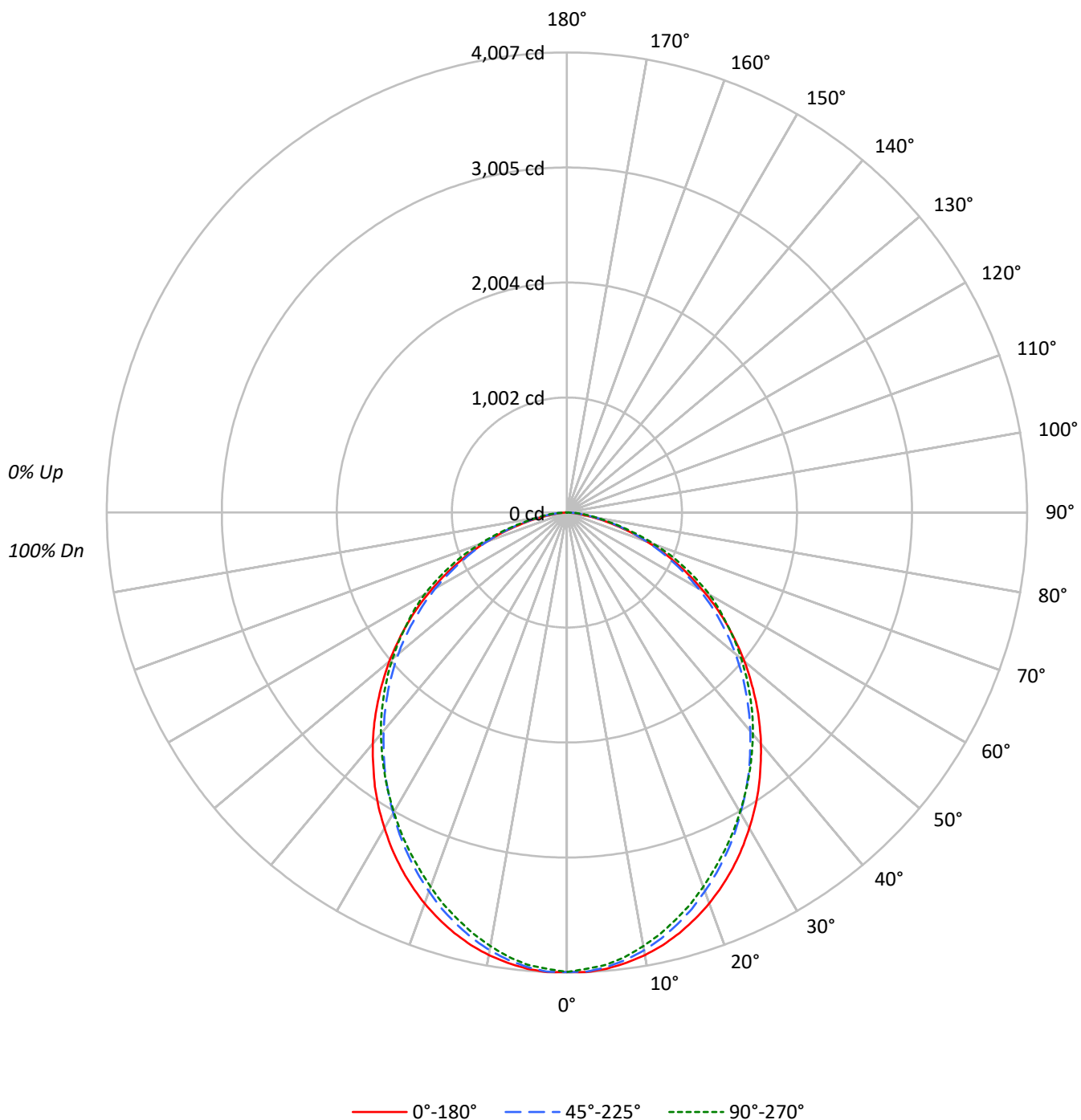
Lumens per Lamp: N/A
Luminaire Lumens: 9578.0 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	82	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	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	41		
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5385	5385	5385
5°	5387	5367	5341
10°	5348	5290	5240
15°	5281	5172	5110
20°	5188	5028	4969
25°	5073	4872	4823
30°	4935	4698	4681
35°	4787	4534	4549
40°	4617	4362	4426
45°	4428	4191	4289
50°	4226	4010	4147
55°	3992	3797	3997
60°	3704	3554	3865
65°	3371	3238	3593
70°	2925	2911	3203
75°	2335	2478	2629
80°	1615	1914	2086
85°	902	1459	1897

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4428 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.7	3.9
10°-20°	1047.4	10.9
20°-30°	1521.4	15.9
30°-40°	1750.9	18.3
40°-50°	1733.0	18.1
50°-60°	1483.9	15.5
60°-70°	1046.6	10.9
70°-80°	508.5	5.3
80°-90°	110.7	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°	2944.5	30.7
0°-40°	4695.4	49.0
0°-60°	7912.3	82.6
0°-90°	9578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9578.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4002	4002	4002	4002	4002	
5°	3989	3985	3973	3945	3954	378
15°	3791	3770	3713	3663	3669	1068
25°	3417	3367	3282	3240	3249	1573
35°	2914	2846	2760	2750	2770	1821
45°	2327	2264	2203	2230	2254	1795
55°	1702	1644	1619	1667	1704	1519
65°	1059	1014	1017	1095	1129	1048
75°	449	430	477	506	506	485
85°	58	71	94	115	123	83
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4002.5	4002.5	4002.5	4002.5	4002.5
2.5°	4007.1	4010.4	4002.5	3972.5	3977.7
5°	3988.7	3985.3	3973.4	3945.3	3954.2
7.5°	3956.8	3951.3	3929.9	3896.6	3902.4
10°	3914.6	3903.6	3871.8	3830.2	3835.1
12.5°	3859.8	3845.1	3800.2	3753.1	3758.3
15°	3791.2	3770.0	3713.0	3663.4	3668.7
17.5°	3712.5	3688.5	3619.3	3565.5	3576.9
20°	3623.4	3590.8	3511.3	3460.3	3470.1
22.5°	3525.1	3484.2	3400.8	3351.7	3359.4
25°	3417.1	3367.2	3281.7	3239.6	3248.8
27.5°	3300.4	3245.7	3157.8	3119.3	3133.4
30°	3176.1	3117.2	3024.0	2997.6	3012.9
32.5°	3048.5	2985.8	2893.9	2876.9	2892.3
35°	2914.3	2845.9	2760.4	2750.2	2769.5
37.5°	2770.7	2705.0	2620.5	2627.2	2645.3
40°	2628.7	2560.6	2483.4	2497.9	2519.7
42.5°	2480.8	2415.2	2344.7	2365.1	2390.6
45°	2326.9	2264.2	2202.6	2229.8	2254.1
47.5°	2172.3	2110.3	2060.2	2091.9	2120.9
50°	2018.9	1959.3	1915.5	1953.9	1981.2
52.5°	1857.9	1801.0	1769.7	1810.3	1845.3
55°	1701.7	1644.1	1618.8	1667.1	1704.1
57.5°	1540.4	1493.1	1471.2	1528.1	1574.3
60°	1376.6	1329.9	1320.6	1392.3	1436.2
62.5°	1216.5	1170.7	1166.6	1250.6	1282.1
65°	1058.8	1013.6	1017.1	1094.6	1128.6
67.5°	902.7	861.2	880.3	954.6	977.2
70°	743.5	706.6	740.0	802.8	814.1
72.5°	594.2	563.0	608.3	652.3	655.0
75°	449.1	429.8	476.6	505.6	505.8
77.5°	321.4	311.3	354.5	374.3	375.4
80°	208.4	213.0	247.0	262.4	269.2
82.5°	121.5	132.2	158.7	185.0	192.1
85°	58.4	71.3	94.5	114.7	122.9
87.5°	20.3	28.8	39.4	43.7	42.5
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	16.65	18.23	17.01	18.54	18.86	16.82	18.40	17.18	18.71	19.03
	3H	18.10	19.52	18.47	19.85	20.21	18.46	19.89	18.84	20.21	20.57
	4H	18.53	19.86	18.92	20.21	20.59	18.96	20.30	19.36	20.65	21.03
	6H	18.74	19.98	19.16	20.35	20.74	19.26	20.50	19.67	20.86	21.25
	8H	18.78	19.96	19.20	20.35	20.75	19.35	20.53	19.77	20.92	21.32
	12H	18.78	19.91	19.21	20.30	20.72	19.41	20.54	19.84	20.92	21.35
4H	2H	17.16	18.50	17.56	18.85	19.23	17.30	18.64	17.70	18.99	19.37
	3H	18.80	19.91	19.21	20.31	20.71	19.15	20.27	19.56	20.66	21.06
	4H	19.31	20.31	19.74	20.73	21.17	19.77	20.77	20.20	21.18	21.62
	6H	19.61	20.49	20.07	20.93	21.38	20.16	21.04	20.62	21.48	21.94
	8H	19.67	20.48	20.13	20.93	21.39	20.29	21.10	20.75	21.55	22.01
	12H	19.69	20.42	20.17	20.90	21.37	20.38	21.11	20.86	21.59	22.06
8H	4H	19.54	20.35	20.00	20.80	21.26	19.95	20.76	20.41	21.21	21.67
	6H	19.90	20.58	20.40	21.07	21.54	20.43	21.10	20.92	21.59	22.07
	8H	19.99	20.60	20.50	21.10	21.59	20.60	21.21	21.11	21.71	22.20
	12H	20.04	20.58	20.55	21.07	21.63	20.76	21.29	21.27	21.78	22.35
12H	4H	19.55	20.28	20.03	20.76	21.23	19.95	20.68	20.43	21.15	21.62
	6H	19.92	20.53	20.43	21.04	21.52	20.43	21.04	20.94	21.54	22.03
	8H	20.05	20.59	20.56	21.08	21.64	20.65	21.18	21.16	21.68	22.24