

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: P1498918

Luminaire Tested: MAE-G-4-120-1HI-HI-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498918
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-35-90-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

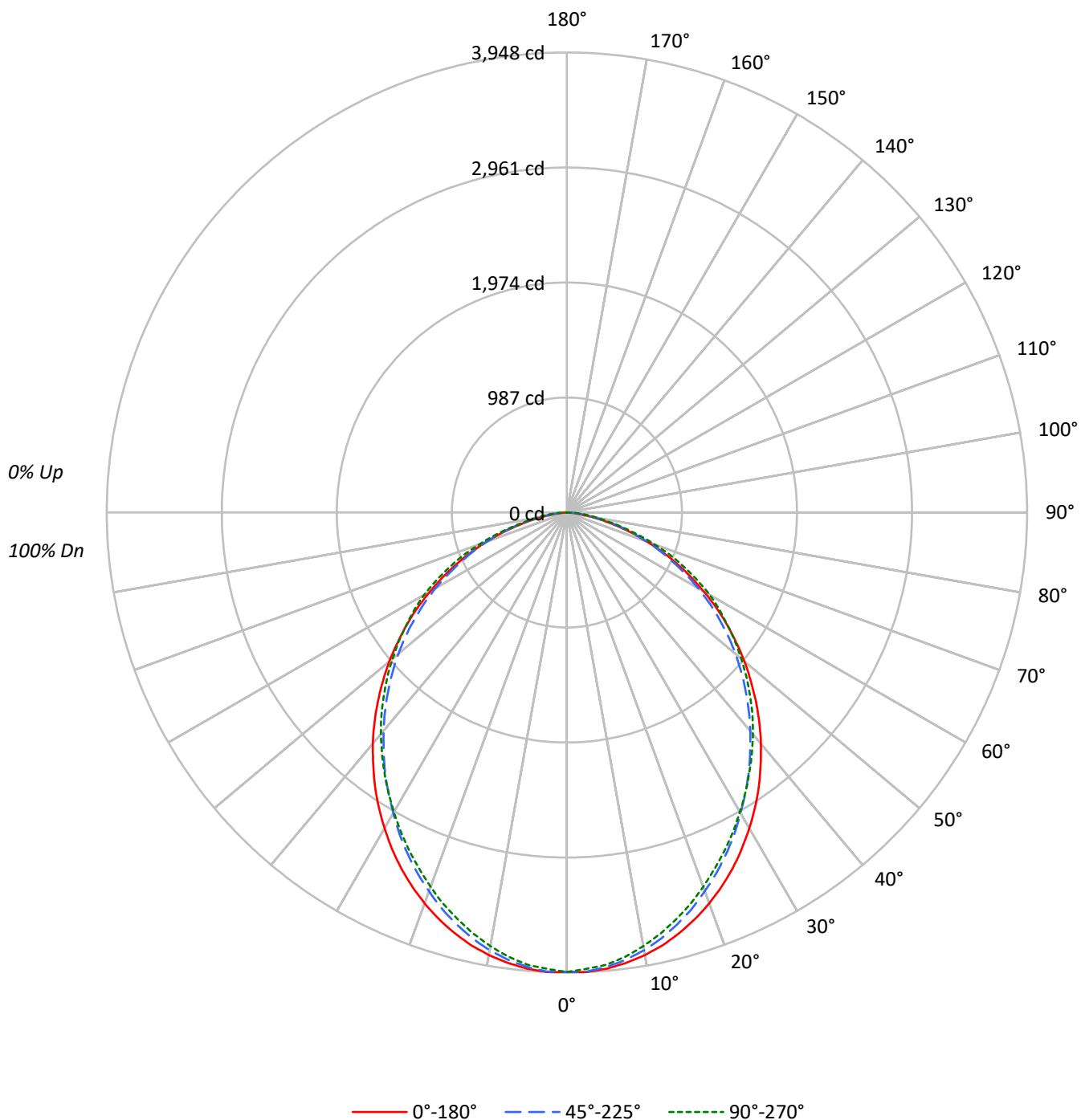
Lumens per Lamp: N/A
Luminaire Lumens: 9436.0 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	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	78		84	79	76		81
3	92	82	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	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	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°	5306	5306	5306
5°	5307	5287	5261
10°	5269	5211	5162
15°	5203	5095	5035
20°	5111	4953	4895
25°	4998	4800	4752
30°	4861	4628	4612
35°	4716	4467	4482
40°	4549	4297	4360
45°	4362	4129	4226
50°	4163	3950	4086
55°	3933	3741	3938
60°	3650	3501	3807
65°	3321	3190	3540
70°	2882	2868	3155
75°	2300	2441	2591
80°	1591	1885	2055
85°	889	1437	1871

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4362 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.1	3.9
10°-20°	1031.8	10.9
20°-30°	1498.9	15.9
30°-40°	1725.0	18.3
40°-50°	1707.3	18.1
50°-60°	1461.9	15.5
60°-70°	1031.0	10.9
70°-80°	500.9	5.3
80°-90°	109.0	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°	2900.8	30.7
0°-40°	4625.8	49.0
0°-60°	7795.0	82.6
0°-90°	9436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9436.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3943	3943	3943	3943	3943	
5°	3930	3926	3914	3887	3896	373
15°	3735	3714	3658	3609	3614	1052
25°	3366	3317	3233	3192	3201	1549
35°	2871	2804	2720	2709	2728	1794
45°	2292	2231	2170	2197	2221	1768
55°	1676	1620	1595	1642	1679	1497
65°	1043	999	1002	1078	1112	1032
75°	442	424	470	498	498	478
85°	58	70	93	113	121	82
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3943.2	3943.2	3943.2	3943.2	3943.2
2.5°	3947.7	3951.0	3943.2	3913.6	3918.7
5°	3929.5	3926.2	3914.5	3886.8	3895.5
7.5°	3898.1	3892.7	3871.6	3838.9	3844.6
10°	3856.5	3845.7	3814.3	3773.5	3778.3
12.5°	3802.6	3788.1	3743.9	3697.5	3702.6
15°	3735.0	3714.3	3657.9	3609.1	3614.3
17.5°	3657.5	3633.7	3565.6	3512.7	3523.9
20°	3569.7	3537.6	3459.2	3409.0	3418.7
22.5°	3472.9	3432.6	3350.4	3301.9	3309.6
25°	3366.4	3317.3	3233.1	3191.6	3200.6
27.5°	3251.5	3197.6	3111.0	3073.1	3087.0
30°	3129.1	3070.9	2979.1	2953.0	2968.2
32.5°	3003.3	2941.6	2851.0	2834.2	2849.4
35°	2871.2	2803.8	2719.5	2709.4	2728.4
37.5°	2729.7	2665.0	2581.7	2588.2	2606.0
40°	2589.7	2522.7	2446.5	2460.9	2482.4
42.5°	2444.0	2379.4	2309.9	2330.0	2355.1
45°	2292.4	2230.6	2169.9	2196.7	2220.7
47.5°	2140.1	2079.0	2029.7	2061.0	2089.4
50°	1989.0	1930.2	1887.1	1925.0	1951.9
52.5°	1830.3	1774.4	1743.4	1783.4	1817.9
55°	1676.5	1619.6	1594.8	1642.4	1678.9
57.5°	1517.5	1470.9	1449.4	1505.4	1550.9
60°	1356.2	1310.2	1300.9	1371.7	1414.9
62.5°	1198.5	1153.3	1149.2	1232.0	1263.1
65°	1043.2	998.6	1002.1	1078.3	1111.9
67.5°	889.3	848.4	867.2	940.5	962.8
70°	732.5	696.1	729.0	790.8	802.0
72.5°	585.4	554.7	599.3	642.6	645.3
75°	442.4	423.5	469.5	498.1	498.4
77.5°	316.7	306.7	349.2	368.7	369.8
80°	205.3	209.8	243.3	258.6	265.2
82.5°	119.7	130.3	156.4	182.4	189.2
85°	57.6	70.2	93.1	113.0	121.2
87.5°	19.9	28.3	38.8	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	16.60	18.18	16.96	18.49	18.81	16.77	18.35	17.13	18.66	18.98
	3H	18.04	19.47	18.42	19.80	20.16	18.41	19.83	18.79	20.16	20.52
	4H	18.47	19.81	18.87	20.16	20.54	18.91	20.25	19.31	20.60	20.98
	6H	18.69	19.93	19.10	20.30	20.69	19.21	20.45	19.62	20.81	21.20
	8H	18.73	19.91	19.15	20.30	20.70	19.29	20.47	19.72	20.86	21.26
	12H	18.73	19.86	19.16	20.24	20.67	19.36	20.49	19.79	20.87	21.30
4H	2H	17.11	18.45	17.51	18.80	19.17	17.25	18.59	17.65	18.94	19.31
	3H	18.75	19.86	19.16	20.26	20.66	19.10	20.21	19.51	20.61	21.01
	4H	19.26	20.26	19.69	20.68	21.11	19.71	20.72	20.15	21.13	21.57
	6H	19.56	20.43	20.02	20.88	21.33	20.11	20.99	20.57	21.43	21.88
	8H	19.61	20.43	20.08	20.87	21.34	20.23	21.05	20.70	21.49	21.96
	12H	19.64	20.37	20.12	20.85	21.32	20.33	21.06	20.81	21.54	22.01
8H	4H	19.48	20.30	19.95	20.74	21.21	19.89	20.71	20.36	21.15	21.62
	6H	19.85	20.53	20.35	21.02	21.49	20.37	21.05	20.87	21.54	22.01
	8H	19.94	20.54	20.45	21.05	21.54	20.55	21.15	21.06	21.66	22.15
	12H	19.99	20.53	20.50	21.02	21.58	20.71	21.24	21.21	21.73	22.30
12H	4H	19.50	20.23	19.98	20.70	21.17	19.89	20.62	20.37	21.10	21.57
	6H	19.87	20.48	20.38	20.99	21.47	20.38	20.98	20.89	21.49	21.98
	8H	20.00	20.53	20.51	21.03	21.59	20.60	21.13	21.11	21.62	22.19