

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: P1498969

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498969
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-STD-35-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

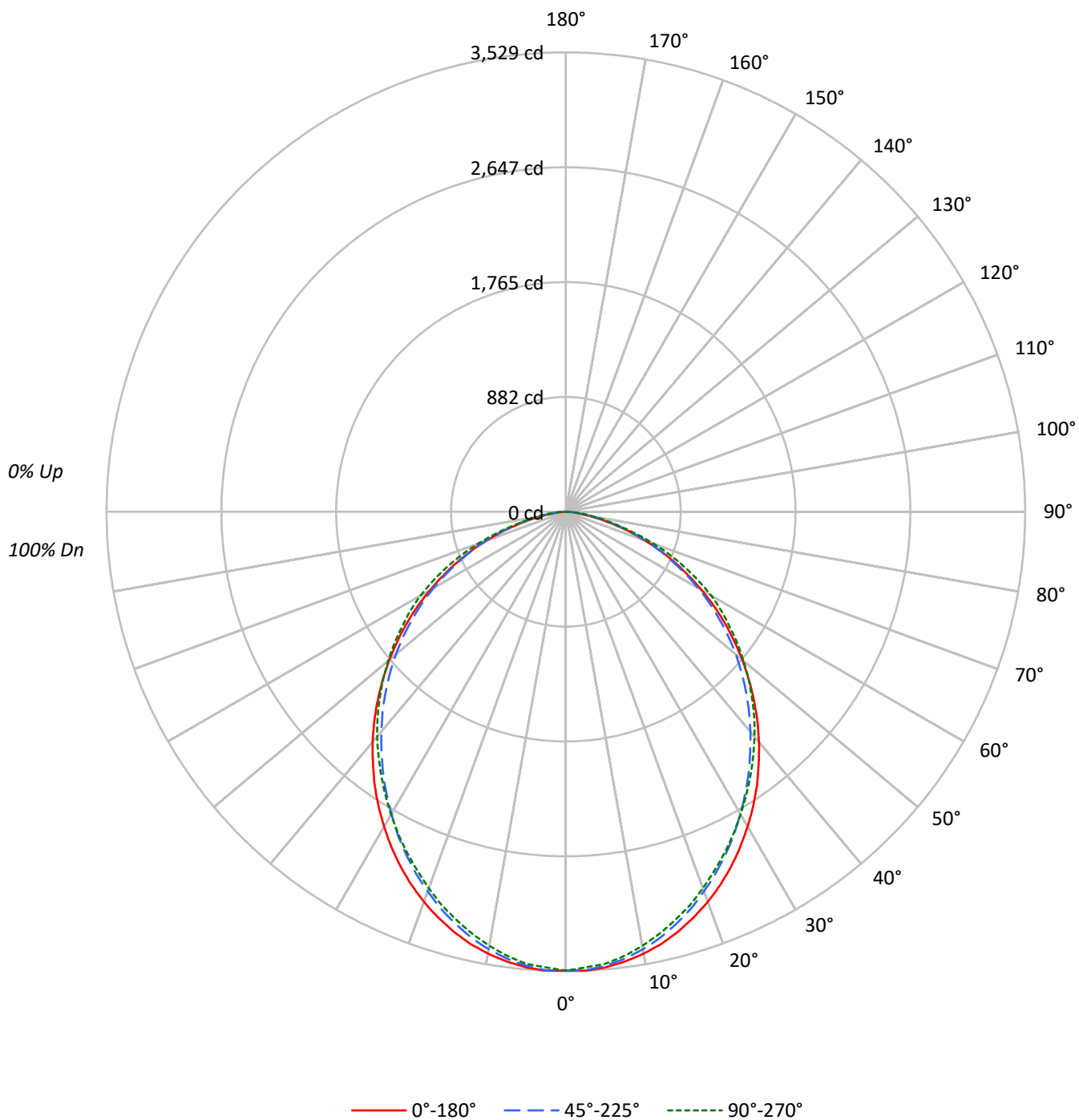
Lumens per Lamp: N/A
Luminaire Lumens: 8474.0 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 112.8
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	92	90	91	89	87	85		
2	100	92	86	80	98	90	85	79	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	61		
4	84	73	64	58	82	71	63	57	69	62	57	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°	4743	4743	4743
5°	4744	4727	4707
10°	4709	4663	4625
15°	4649	4564	4522
20°	4565	4443	4407
25°	4462	4311	4288
30°	4338	4163	4171
35°	4206	4022	4062
40°	4055	3873	3961
45°	3886	3726	3847
50°	3706	3567	3728
55°	3499	3380	3598
60°	3242	3164	3476
65°	2947	2878	3206
70°	2553	2572	2816
75°	2033	2159	2249
80°	1401	1626	1724
85°	780	1213	1553

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3886 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.0	3.9
10°-20°	924.5	10.9
20°-30°	1345.8	15.9
30°-40°	1551.9	18.3
40°-50°	1538.9	18.2
50°-60°	1319.4	15.6
60°-70°	927.4	10.9
70°-80°	442.2	5.2
80°-90°	93.0	1.1
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°	2601.3	30.7
0°-40°	4153.2	49.0
0°-60°	7011.4	82.7
0°-90°	8474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8474.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3525	3525	3525	3525	3525	
5°	3512	3509	3500	3477	3485	333
15°	3337	3321	3277	3240	3246	940
25°	3006	2967	2904	2877	2888	1383
35°	2561	2509	2449	2451	2473	1600
45°	2042	1996	1958	1994	2022	1575
55°	1491	1449	1441	1496	1534	1331
65°	926	893	904	976	1007	916
75°	391	377	415	436	433	422
85°	50	61	79	94	101	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3525.0	3525.0	3525.0	3525.0	3525.0
2.5°	3529.1	3531.8	3525.0	3499.5	3503.3
5°	3512.5	3509.4	3499.8	3477.2	3484.8
7.5°	3484.3	3479.9	3462.6	3436.4	3441.5
10°	3446.8	3438.0	3412.8	3380.4	3385.2
12.5°	3398.4	3387.0	3351.8	3315.8	3321.3
15°	3337.4	3321.0	3276.8	3240.1	3246.2
17.5°	3267.6	3249.5	3196.6	3157.1	3168.9
20°	3188.4	3163.5	3103.2	3066.8	3077.8
22.5°	3101.4	3069.9	3007.3	2973.2	2983.0
25°	3005.7	2967.0	2904.1	2877.0	2888.4
27.5°	2902.2	2860.0	2796.5	2772.8	2789.0
30°	2792.1	2746.9	2679.2	2666.9	2684.6
32.5°	2679.3	2631.6	2565.4	2562.0	2579.7
35°	2560.9	2508.6	2448.8	2451.3	2473.0
37.5°	2434.0	2384.3	2325.7	2344.0	2364.8
40°	2308.6	2257.1	2205.3	2230.8	2255.1
42.5°	2178.3	2129.2	2083.2	2113.9	2141.9
45°	2042.2	1996.2	1957.9	1994.5	2021.6
47.5°	1905.9	1860.1	1832.0	1872.7	1903.9
50°	1770.7	1727.2	1704.1	1750.6	1781.0
52.5°	1629.2	1587.7	1574.9	1623.2	1660.2
55°	1491.4	1449.0	1440.8	1495.7	1533.9
57.5°	1349.3	1316.2	1309.8	1371.0	1417.5
60°	1204.7	1171.7	1175.8	1249.1	1291.9
62.5°	1064.1	1031.3	1037.8	1120.0	1149.0
65°	925.5	892.7	904.0	975.6	1006.9
67.5°	788.8	758.2	781.1	847.1	867.1
70°	649.0	622.0	653.7	707.7	715.9
72.5°	518.3	495.1	534.6	569.5	569.4
75°	391.0	377.4	415.4	435.6	432.7
77.5°	279.6	272.3	305.7	317.1	314.9
80°	180.8	184.9	209.9	218.0	222.5
82.5°	105.2	113.8	132.9	153.2	157.8
85°	50.5	60.8	78.6	94.4	100.6
87.5°	17.5	24.4	32.5	36.0	35.0
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	16.19	17.77	16.55	18.09	18.40	16.49	18.08	16.86	18.39	18.71
	3H	17.63	19.05	18.01	19.38	19.74	18.10	19.52	18.48	19.85	20.21
	4H	18.05	19.39	18.45	19.74	20.11	18.57	19.90	18.96	20.25	20.63
	6H	18.27	19.50	18.68	19.87	20.26	18.82	20.06	19.23	20.43	20.82
	8H	18.30	19.48	18.72	19.87	20.27	18.89	20.07	19.32	20.46	20.86
	12H	18.30	19.43	18.73	19.81	20.24	18.94	20.07	19.37	20.46	20.88
4H	2H	16.72	18.05	17.12	18.40	18.78	16.97	18.30	17.37	18.65	19.03
	3H	18.34	19.45	18.75	19.85	20.25	18.77	19.89	19.18	20.28	20.68
	4H	18.85	19.85	19.28	20.26	20.70	19.35	20.35	19.78	20.76	21.20
	6H	19.14	20.01	19.60	20.45	20.91	19.70	20.57	20.16	21.01	21.47
	8H	19.19	20.01	19.65	20.45	20.92	19.80	20.62	20.27	21.06	21.53
	12H	19.21	19.94	19.69	20.42	20.89	19.89	20.62	20.37	21.09	21.56
8H	4H	19.06	19.88	19.53	20.32	20.79	19.52	20.33	19.98	20.78	21.24
	6H	19.42	20.10	19.92	20.59	21.06	19.95	20.62	20.44	21.11	21.58
	8H	19.51	20.11	20.02	20.62	21.10	20.10	20.70	20.61	21.21	21.70
	12H	19.56	20.09	20.06	20.58	21.14	20.23	20.77	20.74	21.26	21.82
12H	4H	19.07	19.80	19.55	20.28	20.75	19.52	20.25	20.00	20.72	21.19
	6H	19.44	20.04	19.95	20.55	21.04	19.95	20.55	20.46	21.06	21.55
	8H	19.56	20.09	20.07	20.58	21.15	20.14	20.67	20.65	21.16	21.73