

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: P1499209

Luminaire Tested: MAE-G-4-120-2HI-HI-35-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499209
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-4-120-2HI-HI-35-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

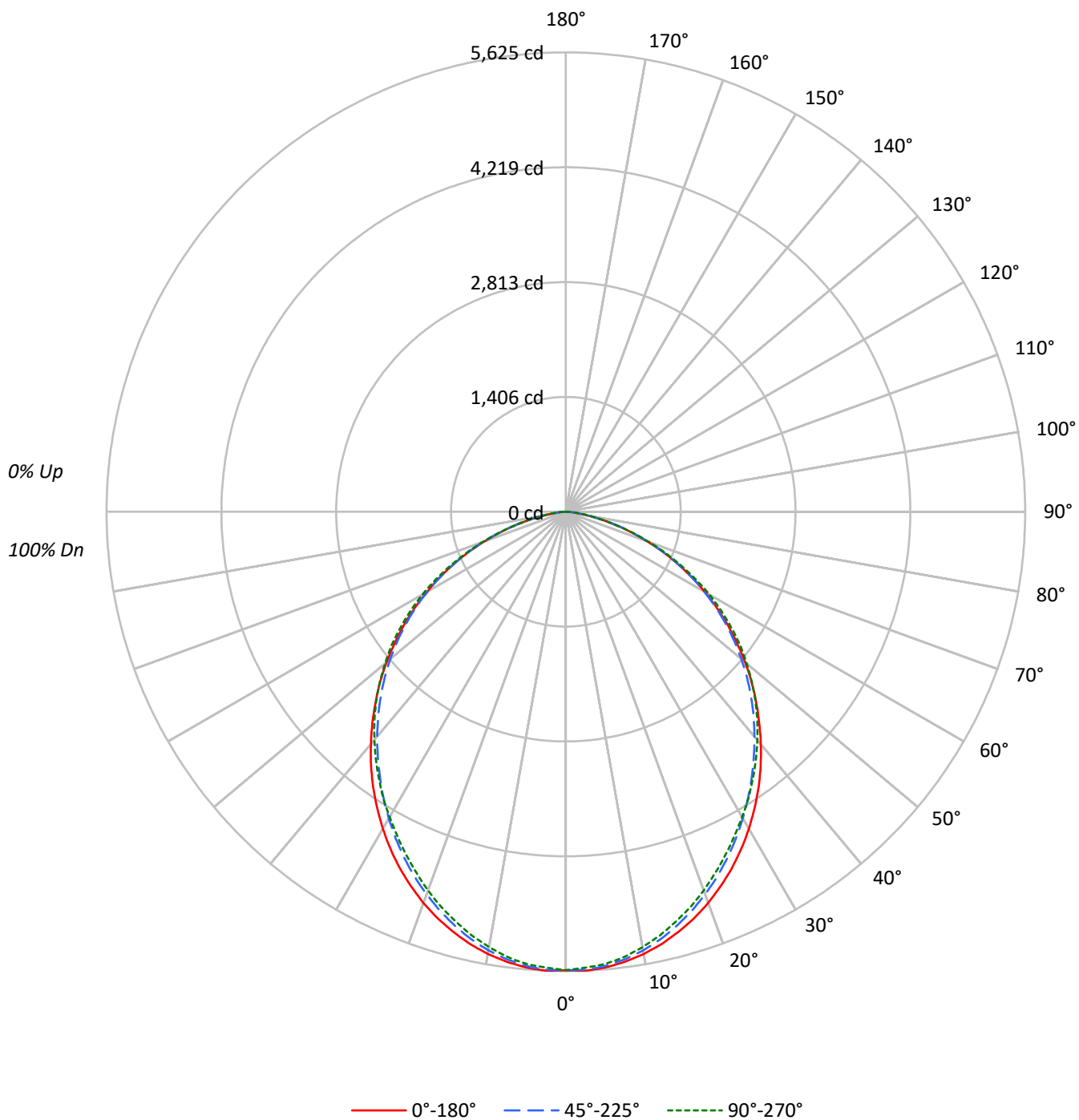
Lumens per Lamp: N/A
Luminaire Lumens: 13664.0 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 177.5
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	88	85		
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	61		
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	41		
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7553	7553	7553
5°	7564	7540	7506
10°	7511	7450	7394
15°	7419	7310	7239
20°	7298	7138	7066
25°	7144	6945	6875
30°	6962	6735	6705
35°	6758	6518	6557
40°	6523	6312	6407
45°	6271	6102	6250
50°	5996	5874	6050
55°	5679	5603	5801
60°	5298	5267	5468
65°	4817	4819	4956
70°	4160	4208	4268
75°	3315	3410	3370
80°	2245	2369	2376
85°	1155	1582	2021

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6271 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.9	3.9
10°-20°	1478.5	10.8
20°-30°	2161.8	15.8
30°-40°	2507.2	18.3
40°-50°	2502.8	18.3
50°-60°	2155.9	15.8
60°-70°	1504.5	11.0
70°-80°	695.0	5.1
80°-90°	130.3	1.0
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°	4168.2	30.5
0°-40°	6675.4	48.9
0°-60°	11334.1	82.9
0°-90°	13664.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13664.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5614	5614	5614	5614	5614	
5°	5600	5580	5582	5550	5557	531
15°	5326	5289	5248	5194	5197	1501
25°	4812	4757	4678	4624	4631	2215
35°	4114	4044	3968	3966	3992	2571
45°	3296	3233	3207	3250	3284	2542
55°	2421	2373	2389	2447	2473	2162
65°	1513	1490	1514	1540	1557	1497
75°	638	631	656	650	648	686
85°	75	84	102	122	131	111
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5613.6	5613.6	5613.6	5613.6	5613.6
2.5°	5625.0	5606.7	5613.6	5589.1	5587.5
5°	5600.4	5580.2	5582.3	5550.1	5557.4
7.5°	5557.4	5533.9	5527.6	5491.2	5498.0
10°	5497.6	5468.7	5453.0	5408.3	5411.9
12.5°	5421.1	5388.3	5361.0	5309.4	5315.3
15°	5325.9	5289.1	5248.0	5193.9	5197.2
17.5°	5221.0	5180.9	5123.2	5065.8	5075.0
20°	5096.9	5052.9	4984.9	4925.1	4935.0
22.5°	4959.3	4909.5	4838.6	4779.2	4784.6
25°	4812.4	4757.3	4678.1	4624.3	4630.9
27.5°	4652.9	4591.5	4510.7	4462.7	4473.8
30°	4481.4	4417.0	4335.2	4299.6	4315.4
32.5°	4300.8	4234.9	4155.5	4136.8	4160.4
35°	4114.1	4043.8	3968.0	3965.7	3991.9
37.5°	3919.5	3850.5	3782.3	3796.2	3823.4
40°	3713.8	3648.9	3593.6	3618.3	3647.8
42.5°	3506.7	3444.3	3402.4	3438.4	3470.2
45°	3295.5	3233.4	3206.6	3250.4	3284.4
47.5°	3085.5	3023.0	3009.8	3060.2	3090.6
50°	2864.4	2808.6	2806.1	2860.7	2890.5
52.5°	2641.2	2589.7	2599.2	2657.9	2694.4
55°	2420.8	2372.8	2388.6	2447.0	2472.8
57.5°	2194.2	2156.2	2176.6	2228.7	2254.2
60°	1968.8	1933.8	1957.2	2007.0	2032.0
62.5°	1740.7	1710.3	1737.2	1779.0	1795.3
65°	1513.1	1490.2	1513.7	1540.4	1556.8
67.5°	1289.0	1267.5	1293.0	1318.8	1324.7
70°	1057.4	1043.9	1069.6	1084.9	1084.8
72.5°	844.3	831.1	855.5	861.2	856.9
75°	637.6	630.6	655.9	650.4	648.2
77.5°	449.9	453.2	466.4	462.3	461.2
80°	289.7	299.8	305.7	308.6	306.6
82.5°	162.8	172.2	181.0	202.4	210.9
85°	74.8	83.8	102.5	122.5	130.9
87.5°	25.3	32.4	43.1	46.3	43.9
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	17.95	19.54	18.32	19.85	20.16	18.18	19.76	18.54	20.07	20.39
	3H	19.42	20.84	19.79	21.17	21.53	19.64	21.07	20.02	21.39	21.75
	4H	19.84	21.18	20.24	21.53	21.90	20.06	21.40	20.46	21.74	22.12
	6H	20.05	21.29	20.46	21.65	22.04	20.27	21.50	20.68	21.87	22.26
	8H	20.08	21.25	20.50	21.64	22.04	20.31	21.49	20.74	21.88	22.28
	12H	20.07	21.20	20.50	21.58	22.01	20.34	21.47	20.77	21.85	22.28
4H	2H	18.51	19.85	18.91	20.20	20.57	18.69	20.03	19.09	20.38	20.75
	3H	20.15	21.26	20.56	21.66	22.06	20.34	21.46	20.75	21.86	22.26
	4H	20.66	21.66	21.09	22.08	22.52	20.85	21.85	21.28	22.27	22.70
	6H	20.95	21.82	21.40	22.26	22.72	21.14	22.01	21.59	22.45	22.91
	8H	20.99	21.80	21.45	22.25	22.71	21.21	22.02	21.67	22.46	22.93
	12H	21.00	21.73	21.49	22.21	22.68	21.26	21.99	21.74	22.46	22.93
8H	4H	20.85	21.66	21.31	22.11	22.57	21.02	21.84	21.48	22.28	22.75
	6H	21.19	21.86	21.69	22.35	22.83	21.37	22.04	21.86	22.53	23.01
	8H	21.26	21.86	21.77	22.37	22.86	21.47	22.07	21.98	22.58	23.07
	12H	21.30	21.83	21.81	22.32	22.88	21.56	22.09	22.07	22.58	23.15
12H	4H	20.85	21.58	21.33	22.06	22.53	21.02	21.75	21.50	22.22	22.70
	6H	21.19	21.79	21.70	22.30	22.79	21.37	21.97	21.88	22.48	22.96
	8H	21.30	21.83	21.81	22.32	22.88	21.50	22.04	22.01	22.53	23.09