

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: P1499269

Luminaire Tested: MAE-G-4-120-2HI-STD-50-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499269
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-STD-50-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

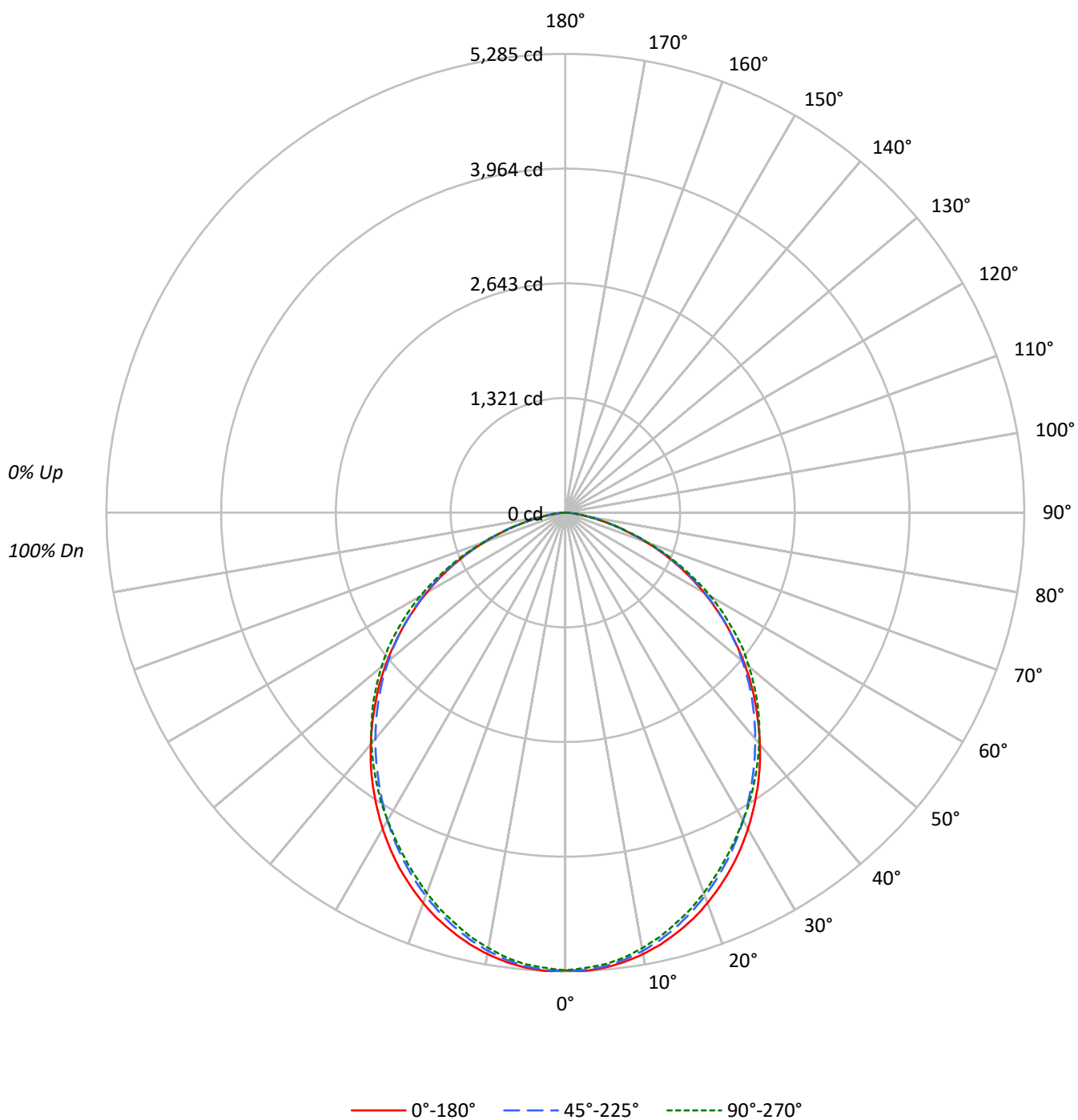
Lumens per Lamp: N/A
Luminaire Lumens: 12894.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 157.1
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	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	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	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7096	7096	7096
5°	7107	7085	7056
10°	7056	7006	6961
15°	6969	6882	6828
20°	6854	6728	6677
25°	6709	6554	6508
30°	6536	6364	6359
35°	6342	6165	6230
40°	6120	5977	6099
45°	5882	5784	5959
50°	5622	5574	5779
55°	5324	5321	5543
60°	4964	5005	5215
65°	4510	4575	4692
70°	3889	3971	3988
75°	3094	3176	3073
80°	2086	2142	2075
85°	1061	1379	1729

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5959 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.2	3.8
10°-20°	1391.9	10.8
20°-30°	2039.1	15.8
30°-40°	2369.4	18.4
40°-50°	2369.6	18.4
50°-60°	2043.9	15.9
60°-70°	1422.1	11.0
70°-80°	645.9	5.0
80°-90°	115.9	0.9
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°	3927.2	30.5
0°-40°	6296.6	48.8
0°-60°	10710.1	83.1
0°-90°	12894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12894.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5274	5274	5274	5274	5274	
5°	5262	5241	5246	5218	5224	499
15°	5003	4970	4940	4898	4902	1410
25°	4519	4474	4415	4375	4384	2080
35°	3861	3805	3753	3764	3793	2413
45°	3091	3044	3040	3094	3132	2385
55°	2269	2236	2268	2335	2363	2027
65°	1416	1405	1437	1459	1474	1402
75°	595	593	611	597	591	640
85°	69	76	89	105	112	103
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5273.9	5273.9	5273.9	5273.9	5273.9
2.5°	5285.2	5265.9	5273.9	5253.2	5250.3
5°	5261.9	5241.4	5245.7	5218.2	5224.5
7.5°	5221.3	5198.4	5196.1	5165.6	5171.9
10°	5164.8	5137.5	5127.9	5091.1	5094.7
12.5°	5092.7	5062.6	5044.0	5002.2	5008.5
15°	5002.8	4969.8	4940.5	4897.9	4902.1
17.5°	4904.1	4869.3	4826.1	4781.4	4791.5
20°	4786.8	4749.6	4698.9	4652.2	4663.4
22.5°	4657.3	4615.5	4563.4	4517.8	4525.4
25°	4519.0	4473.6	4414.9	4374.8	4384.0
27.5°	4368.6	4318.3	4259.8	4225.2	4239.0
30°	4207.1	4154.9	4096.4	4074.1	4092.8
32.5°	4037.0	3984.3	3928.4	3923.0	3949.5
35°	3861.2	3805.2	3753.2	3763.7	3793.0
37.5°	3678.6	3623.7	3579.7	3605.6	3636.3
40°	3484.6	3434.5	3403.0	3439.5	3472.2
42.5°	3290.0	3242.3	3223.7	3271.0	3306.3
45°	3091.2	3044.4	3039.9	3094.3	3131.9
47.5°	2894.4	2846.5	2854.6	2915.3	2949.1
50°	2686.0	2645.0	2662.7	2726.9	2760.7
52.5°	2477.0	2439.3	2467.4	2535.4	2575.1
55°	2269.4	2235.5	2268.4	2335.0	2363.0
57.5°	2056.6	2031.8	2067.8	2126.1	2152.9
60°	1844.8	1822.4	1859.8	1912.8	1937.9
62.5°	1630.7	1612.3	1650.4	1692.3	1706.6
65°	1416.5	1405.3	1437.0	1459.4	1473.7
67.5°	1206.5	1195.1	1225.1	1243.9	1247.5
70°	988.6	984.4	1009.4	1016.9	1013.8
72.5°	789.0	783.1	802.7	800.0	792.9
75°	595.1	593.4	610.9	596.8	591.2
77.5°	419.0	425.1	429.3	416.9	412.5
80°	269.2	279.1	276.5	272.1	267.8
82.5°	150.6	158.0	159.9	175.8	182.2
85°	68.7	75.5	89.3	105.4	112.0
87.5°	23.3	29.0	37.4	39.9	37.6
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	17.73	19.32	18.10	19.63	19.95	18.05	19.63	18.42	19.95	20.26
	3H	19.19	20.62	19.57	20.94	21.30	19.48	20.90	19.86	21.23	21.59
	4H	19.61	20.95	20.01	21.30	21.68	19.87	21.20	20.27	21.55	21.93
	6H	19.82	21.05	20.23	21.42	21.81	20.05	21.28	20.46	21.65	22.04
	8H	19.84	21.02	20.27	21.41	21.81	20.08	21.26	20.51	21.65	22.05
	12H	19.84	20.97	20.27	21.35	21.78	20.10	21.23	20.53	21.61	22.04
4H	2H	18.30	19.64	18.70	19.99	20.37	18.56	19.90	18.96	20.25	20.62
	3H	19.94	21.05	20.35	21.45	21.85	20.17	21.28	20.58	21.68	22.08
	4H	20.44	21.44	20.88	21.86	22.30	20.65	21.65	21.08	22.06	22.50
	6H	20.72	21.59	21.18	22.04	22.49	20.90	21.77	21.36	22.21	22.67
	8H	20.77	21.58	21.23	22.02	22.49	20.95	21.76	21.41	22.21	22.67
	12H	20.78	21.50	21.26	21.98	22.45	20.99	21.72	21.47	22.20	22.67
8H	4H	20.63	21.44	21.09	21.88	22.35	20.81	21.62	21.27	22.07	22.53
	6H	20.96	21.63	21.45	22.12	22.60	21.12	21.79	21.61	22.28	22.75
	8H	21.03	21.63	21.54	22.13	22.62	21.20	21.80	21.71	22.31	22.79
	12H	21.06	21.59	21.57	22.08	22.64	21.27	21.80	21.78	22.29	22.86
12H	4H	20.62	21.35	21.10	21.83	22.30	20.81	21.53	21.29	22.01	22.48
	6H	20.95	21.56	21.47	22.06	22.55	21.11	21.71	21.62	22.22	22.71
	8H	21.05	21.58	21.56	22.08	22.64	21.23	21.76	21.74	22.25	22.81