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: P1499729

Luminaire Tested: MAE-G-4-120-3STD-STD-30-90-WDDCPH

Issue Date: 6/26/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1499729
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab:	INNOVATION CENTER
Issue Date:	6/26/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	FAIL-SAFE
Catalog Number:	MAE-G-4-120-3STD-STD-30-90-WDDCPH
Description:	Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient , STD exam illumination levels
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14656.0 lumens
Efficiency:	N/A
Efficacy:	85.8 lumens/watt
Spacing Criteria (0/90/45):	1.19 / 1.18 / 1.29
Luminous Opening:	Rectangular (W 2' x L: 4' x H: 0')
CIE Type:	Direct

Input Watts (W):	170.9
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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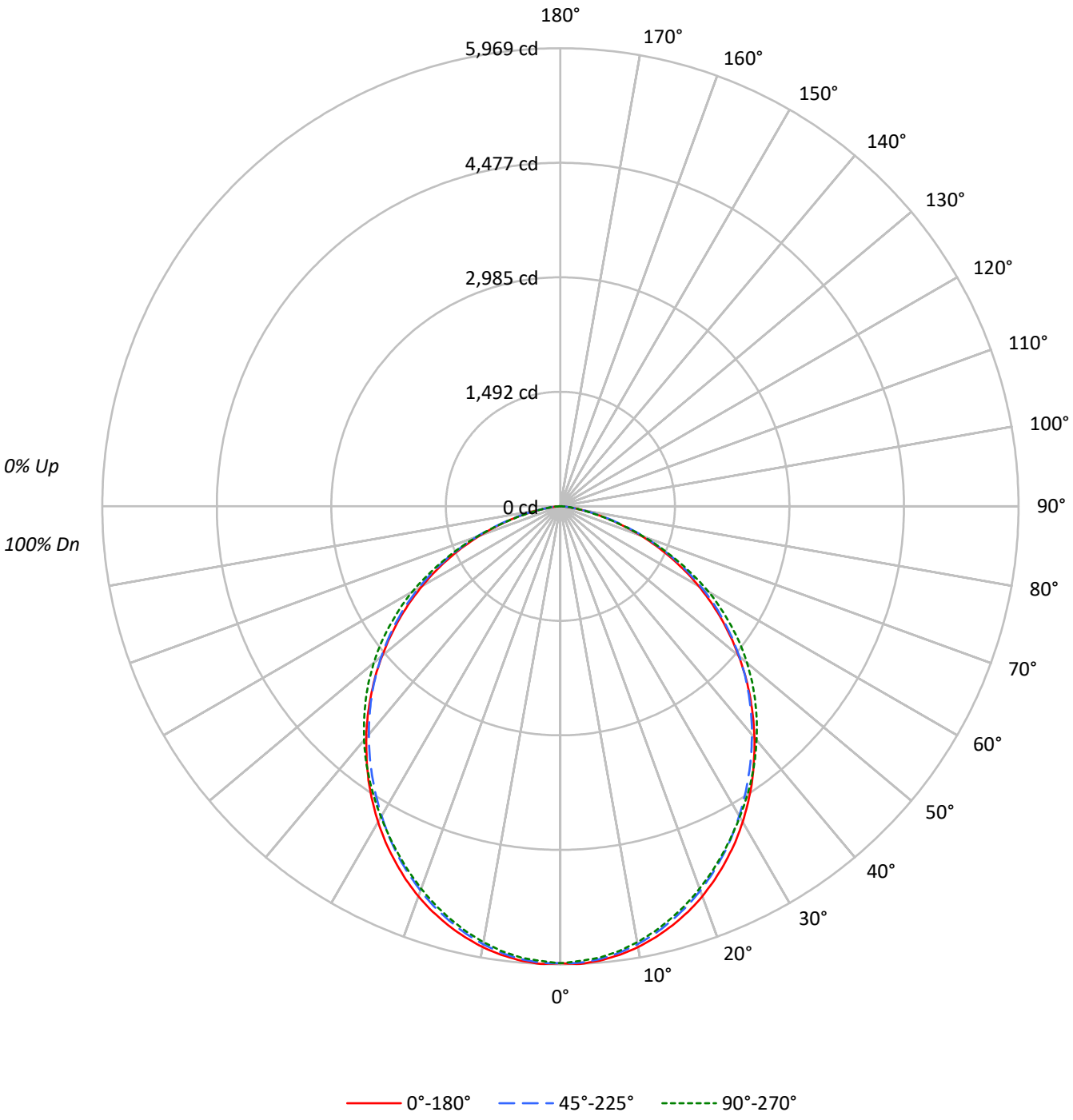
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
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	86
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	62
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	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8011	8011	8011
5°	8025	8000	7973
10°	7969	7917	7879
15°	7873	7788	7748
20°	7744	7632	7592
25°	7574	7448	7421
30°	7380	7239	7262
35°	7160	7027	7128
40°	6911	6820	6986
45°	6641	6608	6829
50°	6345	6369	6643
55°	6013	6091	6371
60°	5600	5735	6005
65°	5087	5253	5368
70°	4380	4561	4522
75°	3480	3618	3373
80°	2342	2364	2187
85°	1201	1476	1791

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 45°
Luminance: 6829 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.5	3.8
10°-20°	1575.3	10.7
20°-30°	2313.8	15.8
30°-40°	2694.2	18.4
40°-50°	2700.6	18.4
50°-60°	2334.1	15.9
60°-70°	1623.8	11.1
70°-80°	728.0	5.0
80°-90°	125.6	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°	4449.7	30.4
0°-40°	7144.0	48.7
0°-60°	12178.6	83.1
0°-90°	14656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14656.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5954	5954	5954	5954	5954	
5°	5942	5916	5923	5896	5903	564
15°	5652	5616	5591	5554	5562	1593
25°	5102	5057	5017	4979	4999	2349
35°	4359	4305	4278	4298	4340	2723
45°	3490	3452	3473	3543	3589	2693
55°	2563	2536	2596	2684	2716	2288
65°	1598	1594	1650	1680	1686	1579
75°	669	676	696	669	649	719
85°	78	83	96	110	116	115
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*5953.7*	5953.7	5953.7	5953.7	5953.7
2.5°	*5968.6*	*5943.9*	*5953.7*	*5932.5*	*5928.2*
5°	*5941.8*	5916.3	5922.8	5895.5	5903.4
7.5°	*5895.7*	5868.7	5868.3	5838.6	5846.0
10°	*5833.0*	5801.4	5794.6	5760.9	5766.6
12.5°	*5749.8*	5717.1	5702.5	5664.0	5673.6
15°	*5651.9*	5615.9	5591.1	5553.5	5562.2
17.5°	*5538.5*	5498.8	5469.0	5425.1	5439.4
20°	*5408.2*	5365.6	5330.0	5283.4	5302.1
22.5°	*5262.4*	5217.6	5176.9	5135.2	5154.1
25°	*5101.7*	5056.7	5016.8	4978.9	4998.7
27.5°	*4932.8*	4882.6	4842.6	4815.7	4837.6
30°	*4750.0*	4698.2	4659.6	4643.2	4674.5
32.5°	*4557.0*	4505.8	4471.9	4473.4	4509.5
35°	*4358.8*	4304.9	4278.0	4297.9	4339.9
37.5°	*4145.7*	4100.5	4082.8	4120.8	4163.4
40°	*3934.5*	3887.4	3882.9	3932.8	3977.7
42.5°	*3716.0*	3674.7	3680.2	3744.2	3785.9
45°	*3489.9*	3451.5	3472.8	3543.1	3588.8
47.5°	*3267.7*	3228.3	3261.5	3338.4	3387.7
50°	*3031.4*	2999.6	3042.5	3128.6	3173.7
52.5°	*2796.8*	2766.3	2821.0	2911.7	2955.2
55°	*2563.2*	2535.6	2596.5	2684.5	2715.8
57.5°	*2321.5*	2306.1	2368.9	2446.0	2478.6
60°	*2081.0*	2067.9	2131.2	2202.4	2231.6
62.5°	*1840.1*	1833.0	1893.0	1950.4	1960.1
65°	*1597.7*	1593.8	1649.9	1680.3	1686.1
67.5°	*1352.5*	1355.5	1406.4	1421.6	1420.7
70°	*1113.5*	1113.5	1159.5	1162.9	1149.6
72.5°	*881.3*	888.0	917.4	909.4	888.2
75°	*669.4*	675.5	696.0	668.9	648.8
77.5°	*472.4*	477.4	485.9	456.3	443.7
80°	*302.2*	311.4	305.1	290.9	282.3
82.5°	*168.7*	178.2	172.7	185.5	191.4
85°	*77.8*	83.4	95.6	110.1	116.0
87.5°	*26.5*	31.5	39.2	41.8	39.0
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	18.16	19.74	18.53	20.06	20.37	18.58	20.16	18.95	20.48	20.79
	3H	19.61	21.03	19.98	21.36	21.72	19.99	21.41	20.36	21.74	22.10
	4H	20.03	21.36	20.42	21.71	22.09	20.35	21.69	20.75	22.04	22.41
	6H	20.23	21.46	20.64	21.83	22.22	20.50	21.74	20.91	22.10	22.49
	8H	20.25	21.43	20.68	21.82	22.22	20.53	21.70	20.95	22.09	22.49
	12H	20.25	21.38	20.68	21.76	22.19	20.54	21.66	20.97	22.05	22.47
4H	2H	18.75	20.09	19.15	20.43	20.81	19.09	20.43	19.49	20.77	21.15
	3H	20.37	21.48	20.78	21.88	22.28	20.68	21.79	21.09	22.19	22.59
	4H	20.87	21.87	21.30	22.29	22.72	21.13	22.13	21.56	22.54	22.98
	6H	21.15	22.02	21.60	22.46	22.92	21.35	22.21	21.80	22.66	23.11
	8H	21.19	22.00	21.65	22.44	22.91	21.39	22.20	21.85	22.64	23.11
	12H	21.20	21.92	21.68	22.40	22.87	21.41	22.14	21.90	22.62	23.09
8H	4H	21.05	21.87	21.52	22.31	22.78	21.29	22.10	21.75	22.54	23.01
	6H	21.38	22.05	21.87	22.54	23.02	21.55	22.22	22.05	22.71	23.19
	8H	21.44	22.04	21.96	22.55	23.04	21.62	22.22	22.13	22.73	23.21
	12H	21.48	22.00	21.98	22.50	23.06	21.68	22.21	22.18	22.70	23.26
12H	4H	21.05	21.78	21.53	22.25	22.72	21.28	22.01	21.76	22.48	22.96
	6H	21.37	21.97	21.88	22.48	22.97	21.54	22.14	22.06	22.65	23.14
	8H	21.47	22.00	21.98	22.49	23.05	21.64	22.17	22.15	22.66	23.23

END OF REPORT