

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: P1499459

Luminaire Tested: MAE-G-4-120-2STD-STD-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499459
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-4-120-2STD-STD-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

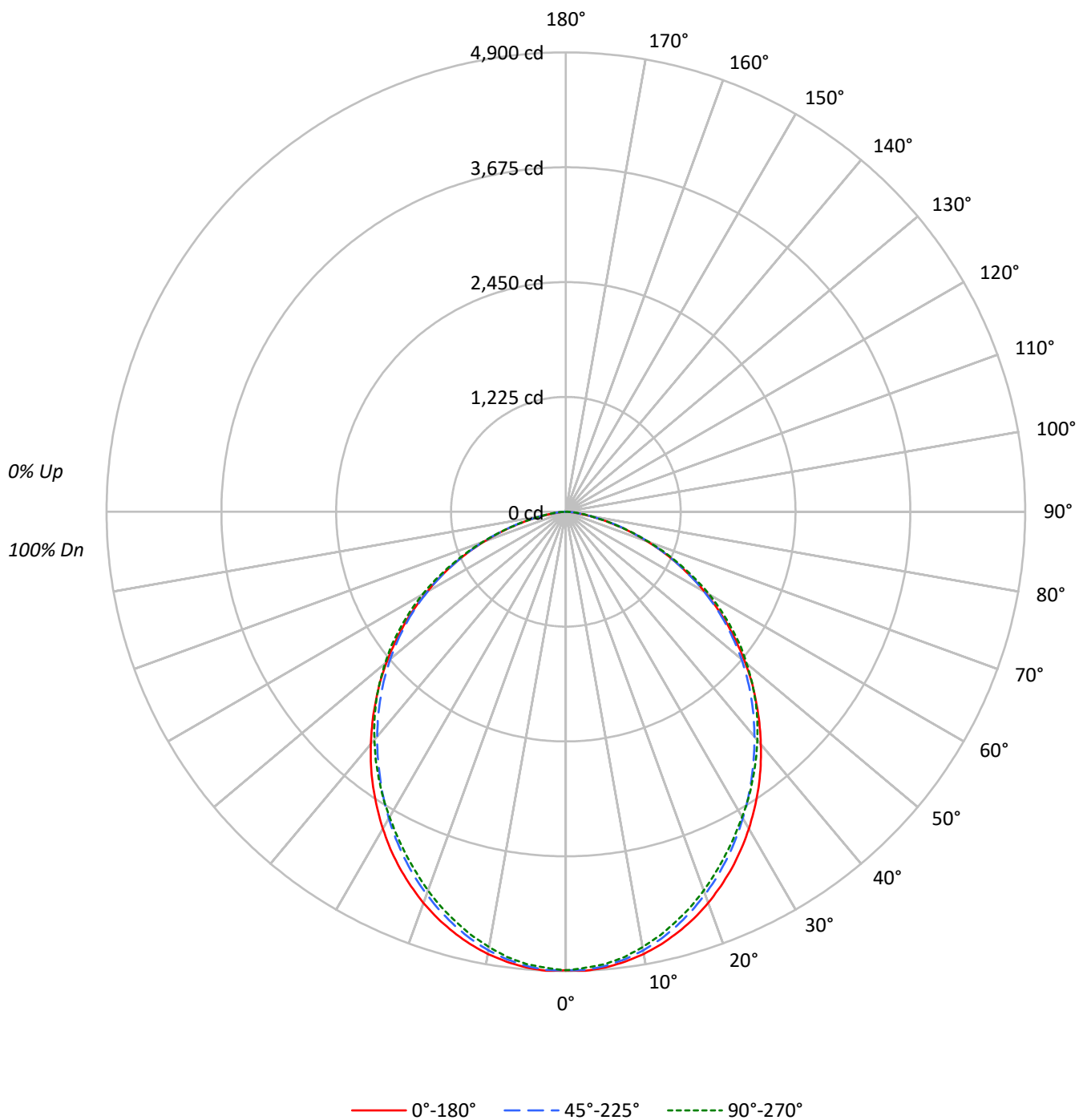
Lumens per Lamp: N/A
Luminaire Lumens: 11904.0 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.8
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
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°	6580	6580	6580
5°	6590	6568	6539
10°	6544	6491	6441
15°	6463	6369	6307
20°	6358	6218	6156
25°	6224	6050	5989
30°	6066	5868	5841
35°	5887	5678	5712
40°	5683	5499	5582
45°	5463	5316	5445
50°	5223	5117	5271
55°	4947	4881	5054
60°	4615	4588	4764
65°	4197	4198	4318
70°	3624	3666	3718
75°	2888	2971	2935
80°	1956	2063	2070
85°	1005	1379	1760

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5463 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.9	3.9
10°-20°	1288.0	10.8
20°-30°	1883.3	15.8
30°-40°	2184.3	18.3
40°-50°	2180.5	18.3
50°-60°	1878.2	15.8
60°-70°	1310.7	11.0
70°-80°	605.5	5.1
80°-90°	113.5	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°	3631.3	30.5
0°-40°	5815.6	48.9
0°-60°	9874.3	82.9
0°-90°	11904.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11904.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4890	4890	4890	4890	4890	
5°	4879	4862	4863	4835	4842	463
15°	4640	4608	4572	4525	4528	1308
25°	4192	4144	4076	4029	4034	1930
35°	3584	3523	3457	3455	3478	2240
45°	2871	2817	2794	2832	2861	2215
55°	2109	2067	2081	2132	2154	1883
65°	1318	1298	1319	1342	1356	1304
75°	556	549	572	567	565	598
85°	65	73	89	107	114	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4890.5	4890.5	4890.5	4890.5	4890.5
2.5°	4900.4	4884.5	4890.5	4869.2	4867.8
5°	4879.1	4861.5	4863.2	4835.2	4841.5
7.5°	4841.6	4821.2	4815.7	4783.9	4789.9
10°	4789.5	4764.3	4750.7	4711.7	4714.7
12.5°	4722.9	4694.4	4670.4	4625.5	4630.7
15°	4639.9	4607.8	4572.0	4524.9	4527.8
17.5°	4548.5	4513.6	4463.4	4413.3	4421.3
20°	4440.3	4402.1	4342.8	4290.7	4299.3
22.5°	4320.5	4277.1	4215.3	4163.6	4168.3
25°	4192.5	4144.5	4075.5	4028.7	4034.4
27.5°	4053.5	4000.1	3929.7	3887.8	3897.6
30°	3904.2	3848.0	3776.9	3745.9	3759.6
32.5°	3746.8	3689.4	3620.3	3603.9	3624.6
35°	3584.1	3522.9	3456.9	3455.0	3477.8
37.5°	3414.6	3354.5	3295.2	3307.2	3330.9
40°	3235.4	3178.8	3130.7	3152.3	3177.9
42.5°	3055.1	3000.7	2964.2	2995.5	3023.3
45°	2871.0	2816.9	2793.7	2831.7	2861.3
47.5°	2688.0	2633.7	2622.1	2666.0	2692.6
50°	2495.4	2446.8	2444.7	2492.2	2518.1
52.5°	2301.0	2256.1	2264.4	2315.6	2347.4
55°	2109.0	2067.2	2080.9	2131.7	2154.3
57.5°	1911.7	1878.5	1896.3	1941.7	1963.9
60°	1715.1	1684.7	1705.1	1748.5	1770.2
62.5°	1516.5	1490.0	1513.5	1549.9	1564.0
65°	1318.2	1298.3	1318.7	1342.0	1356.2
67.5°	1122.9	1104.3	1126.4	1149.0	1154.1
70°	921.2	909.5	931.8	945.2	945.0
72.5°	735.5	724.0	745.2	750.3	746.6
75°	555.5	549.4	571.5	566.6	564.6
77.5°	391.9	394.7	406.4	402.8	401.8
80°	252.4	261.3	266.3	268.9	267.1
82.5°	141.9	150.0	157.7	176.4	183.7
85°	65.1	73.1	89.3	106.7	114.0
87.5°	22.0	28.3	37.5	40.3	38.2
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	17.47	19.06	17.84	19.37	19.68	17.70	19.28	18.06	19.59	19.91
	3H	18.94	20.36	19.31	20.69	21.05	19.16	20.59	19.54	20.91	21.28
	4H	19.36	20.70	19.76	21.05	21.43	19.58	20.92	19.98	21.26	21.64
	6H	19.57	20.81	19.98	21.17	21.56	19.79	21.02	20.20	21.39	21.78
	8H	19.60	20.78	20.02	21.17	21.56	19.83	21.01	20.26	21.40	21.80
	12H	19.60	20.72	20.03	21.11	21.53	19.86	20.99	20.29	21.37	21.80
4H	2H	18.03	19.37	18.43	19.72	20.09	18.21	19.55	18.61	19.90	20.28
	3H	19.67	20.79	20.08	21.18	21.58	19.87	20.98	20.28	21.38	21.78
	4H	20.18	21.18	20.62	21.60	22.04	20.37	21.37	20.80	21.79	22.23
	6H	20.47	21.34	20.92	21.78	22.24	20.66	21.53	21.12	21.97	22.43
	8H	20.51	21.33	20.97	21.77	22.24	20.73	21.54	21.19	21.98	22.45
	12H	20.53	21.25	21.01	21.73	22.20	20.78	21.51	21.26	21.98	22.45
8H	4H	20.37	21.18	20.83	21.63	22.09	20.54	21.36	21.01	21.80	22.27
	6H	20.71	21.38	21.21	21.87	22.35	20.89	21.56	21.38	22.05	22.53
	8H	20.78	21.38	21.30	21.89	22.38	20.99	21.59	21.50	22.10	22.59
	12H	20.82	21.35	21.33	21.84	22.40	21.08	21.61	21.59	22.11	22.67
12H	4H	20.37	21.10	20.85	21.58	22.05	20.54	21.27	21.02	21.75	22.22
	6H	20.71	21.32	21.23	21.82	22.31	20.89	21.49	21.40	22.00	22.48
	8H	20.82	21.35	21.33	21.84	22.40	21.03	21.56	21.53	22.05	22.61