

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: P1499432

Luminaire Tested: MAE-G-4-120-2STD-LO-40-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499432
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-LO-40-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

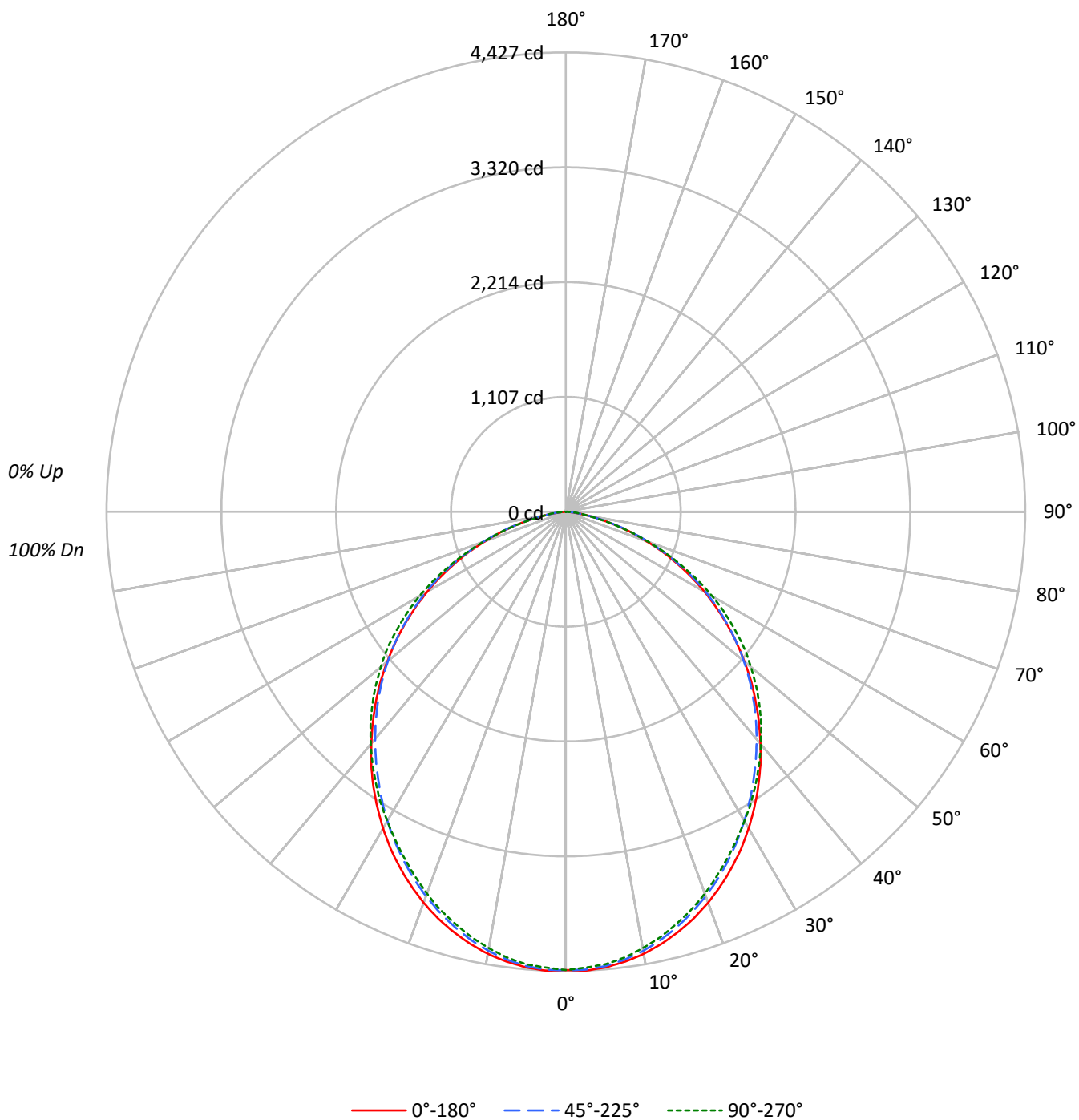
Lumens per Lamp: N/A
Luminaire Lumens: 10819.0 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 116.5
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
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°	5943	5943	5943
5°	5952	5935	5912
10°	5910	5870	5835
15°	5836	5769	5728
20°	5740	5643	5606
25°	5618	5500	5468
30°	5473	5343	5347
35°	5310	5178	5242
40°	5123	5022	5135
45°	4923	4863	5022
50°	4705	4687	4873
55°	4455	4476	4675
60°	4153	4211	4394
65°	3771	3848	3942
70°	3251	3332	3333
75°	2584	2650	2543
80°	1739	1765	1684
85°	878	1116	1388

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5022 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.7	3.8
10°-20°	1166.7	10.8
20°-30°	1710.6	15.8
30°-40°	1989.3	18.4
40°-50°	1991.0	18.4
50°-60°	1718.2	15.9
60°-70°	1194.0	11.0
70°-80°	538.5	5.0
80°-90°	94.8	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°	3293.1	30.4
0°-40°	5282.4	48.8
0°-60°	8991.6	83.1
0°-90°	10819.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10819.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4417	4417	4417	4417	4417	
5°	4407	4390	4394	4372	4377	418
15°	4190	4163	4141	4109	4112	1181
25°	3784	3748	3704	3675	3683	1742
35°	3233	3189	3152	3165	3192	2020
45°	2587	2552	2556	2606	2639	1996
55°	1899	1875	1908	1968	1993	1696
65°	1185	1179	1209	1226	1238	1172
75°	497	497	510	495	489	535
85°	57	62	72	85	90	85
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4417.3	4417.3	4417.3	4417.3	4417.3
2.5°	4426.7	4410.0	4417.3	4400.7	4397.6
5°	4407.1	4389.5	4394.0	4371.9	4376.9
7.5°	4373.2	4353.7	4352.9	4328.8	4334.0
10°	4325.8	4302.8	4296.6	4267.4	4270.5
12.5°	4265.3	4240.3	4227.1	4194.4	4200.1
15°	4189.8	4162.7	4141.4	4108.6	4112.4
17.5°	4107.1	4078.8	4046.6	4012.3	4021.2
20°	4008.6	3978.8	3940.9	3905.1	3915.3
22.5°	3900.0	3866.8	3828.3	3793.4	3800.8
25°	3784.1	3748.3	3704.5	3674.7	3683.3
27.5°	3658.0	3618.4	3575.4	3550.2	3562.8
30°	3522.5	3481.7	3439.0	3424.3	3441.3
32.5°	3379.9	3339.0	3298.6	3298.3	3322.1
35°	3232.7	3189.2	3152.2	3165.4	3191.6
37.5°	3079.6	3037.2	3007.2	3033.5	3060.9
40°	2917.0	2878.7	2859.5	2894.6	2923.7
42.5°	2753.9	2717.9	2709.4	2753.6	2785.1
45°	2587.4	2552.2	2555.5	2605.6	2639.2
47.5°	2422.7	2386.3	2400.1	2455.6	2485.7
50°	2247.9	2217.5	2239.3	2297.6	2327.8
52.5°	2073.1	2045.2	2075.4	2136.9	2171.8
55°	1899.1	1874.6	1908.3	1968.2	1992.9
57.5°	1720.8	1703.8	1739.9	1791.8	1815.3
60°	1543.4	1528.3	1565.0	1611.6	1633.0
62.5°	1364.1	1352.4	1388.7	1424.6	1436.3
65°	1184.6	1178.8	1208.7	1226.5	1238.2
67.5°	1008.9	1002.4	1029.7	1043.6	1046.0
70°	826.3	825.8	847.0	851.0	847.3
72.5°	659.3	656.7	672.0	666.8	659.8
75°	497.1	497.2	509.8	494.8	489.1
77.5°	349.7	355.8	356.5	343.2	338.3
80°	224.4	232.8	227.8	221.7	217.3
82.5°	125.2	131.1	130.3	142.3	147.1
85°	56.9	62.2	72.3	84.9	89.9
87.5°	19.3	23.7	30.2	32.1	30.2
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	17.12	18.70	17.48	19.01	19.33	17.47	19.06	17.84	19.37	19.68
	3H	18.57	20.00	18.95	20.32	20.69	18.89	20.31	19.26	20.64	21.00
	4H	18.99	20.33	19.39	20.68	21.06	19.26	20.60	19.66	20.95	21.32
	6H	19.20	20.43	19.61	20.80	21.19	19.43	20.67	19.84	21.03	21.42
	8H	19.22	20.40	19.65	20.79	21.19	19.46	20.64	19.88	21.03	21.43
	12H	19.22	20.34	19.65	20.73	21.16	19.47	20.60	19.90	20.98	21.41
4H	2H	17.69	19.03	18.09	19.38	19.76	17.98	19.32	18.38	19.67	20.04
	3H	19.32	20.43	19.73	20.83	21.23	19.58	20.69	19.99	21.09	21.49
	4H	19.83	20.83	20.26	21.24	21.68	20.04	21.04	20.47	21.45	21.89
	6H	20.11	20.97	20.56	21.42	21.87	20.28	21.14	20.73	21.59	22.04
	8H	20.15	20.96	20.61	21.40	21.87	20.32	21.13	20.78	21.58	22.04
	12H	20.16	20.88	20.64	21.36	21.83	20.36	21.08	20.84	21.56	22.03
8H	4H	20.01	20.82	20.47	21.26	21.73	20.20	21.01	20.66	21.45	21.92
	6H	20.34	21.01	20.83	21.50	21.97	20.49	21.15	20.98	21.64	22.12
	8H	20.40	21.00	20.91	21.51	22.00	20.56	21.16	21.07	21.67	22.16
	12H	20.43	20.96	20.94	21.45	22.02	20.63	21.16	21.14	21.65	22.21
12H	4H	20.00	20.73	20.48	21.21	21.68	20.19	20.92	20.68	21.40	21.87
	6H	20.33	20.93	20.84	21.44	21.93	20.48	21.08	20.99	21.59	22.07
	8H	20.43	20.96	20.94	21.45	22.01	20.59	21.12	21.10	21.61	22.17