

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: P1498931

Luminaire Tested: MAE-G-4-120-1HI-HI-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1HI-HI-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

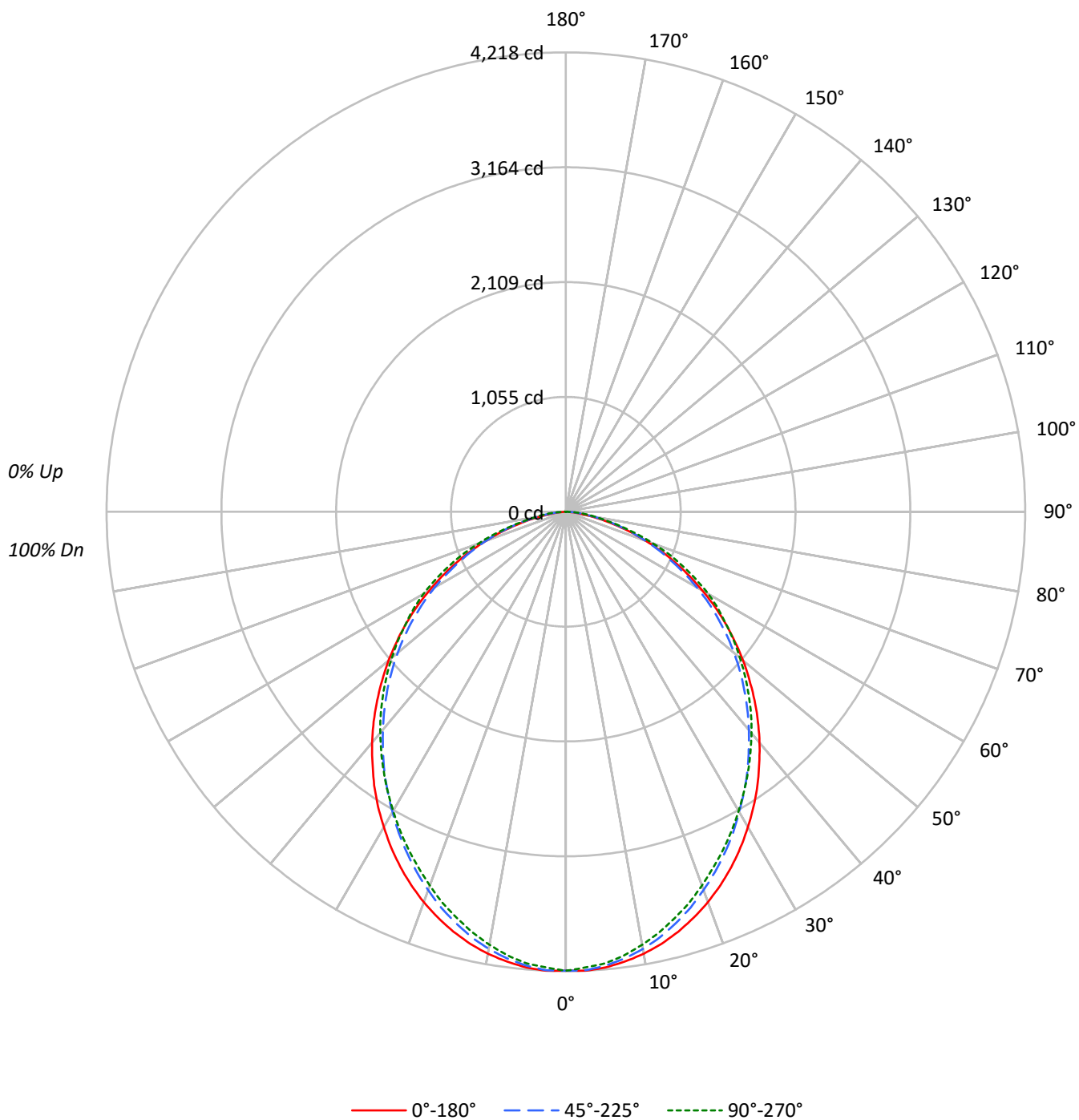
Lumens per Lamp: N/A
Luminaire Lumens: 10083.0 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	82	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	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	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5669	5669	5669
5°	5671	5650	5622
10°	5630	5569	5516
15°	5559	5445	5380
20°	5462	5293	5231
25°	5340	5129	5077
30°	5195	4946	4928
35°	5039	4773	4789
40°	4861	4592	4659
45°	4661	4412	4515
50°	4449	4221	4366
55°	4202	3997	4208
60°	3899	3741	4068
65°	3549	3409	3783
70°	3079	3065	3371
75°	2458	2608	2768
80°	1700	2014	2196
85°	951	1536	1998

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4661 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.5	3.9
10°-20°	1102.6	10.9
20°-30°	1601.6	15.9
30°-40°	1843.2	18.3
40°-50°	1824.4	18.1
50°-60°	1562.1	15.5
60°-70°	1101.7	10.9
70°-80°	535.3	5.3
80°-90°	116.5	1.2
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°	3099.7	30.7
0°-40°	4943.0	49.0
0°-60°	8329.4	82.6
0°-90°	10083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10083.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4214	4214	4214	4214	4214	
5°	4199	4196	4183	4153	4163	398
15°	3991	3969	3909	3857	3862	1124
25°	3597	3545	3455	3410	3420	1655
35°	3068	2996	2906	2895	2916	1917
45°	2450	2384	2319	2347	2373	1890
55°	1791	1731	1704	1755	1794	1599
65°	1115	1067	1071	1152	1188	1103
75°	473	452	502	532	532	510
85°	62	75	100	121	129	87
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4213.5	4213.5	4213.5	4213.5	4213.5
2.5°	4218.4	4221.9	4213.5	4181.9	4187.4
5°	4199.0	4195.5	4182.9	4153.3	4162.6
7.5°	4165.4	4159.6	4137.1	4102.1	4108.2
10°	4121.0	4109.5	4075.9	4032.1	4037.3
12.5°	4063.3	4047.8	4000.6	3950.9	3956.5
15°	3991.1	3968.9	3908.7	3856.6	3862.1
17.5°	3908.3	3882.9	3810.1	3753.6	3765.6
20°	3814.5	3780.1	3696.4	3642.7	3653.1
22.5°	3711.1	3667.9	3580.2	3528.3	3536.5
25°	3597.2	3544.8	3454.8	3410.4	3420.1
27.5°	3474.4	3416.9	3324.2	3283.8	3298.7
30°	3343.6	3281.6	3183.4	3155.5	3171.7
32.5°	3209.3	3143.3	3046.5	3028.5	3044.7
35°	3068.0	2996.0	2905.9	2895.2	2915.5
37.5°	2916.9	2847.6	2758.8	2765.6	2784.7
40°	2767.3	2695.6	2614.3	2629.6	2652.5
42.5°	2611.7	2542.5	2468.3	2489.7	2516.6
45°	2449.6	2383.6	2318.7	2347.3	2372.8
47.5°	2286.9	2221.5	2168.9	2202.3	2232.7
50°	2125.3	2062.7	2016.5	2056.9	2085.7
52.5°	1955.8	1896.1	1863.0	1905.7	1942.6
55°	1791.4	1730.7	1704.1	1754.9	1794.0
57.5°	1621.6	1571.8	1548.8	1608.5	1657.3
60°	1449.1	1400.1	1390.2	1465.8	1511.9
62.5°	1280.6	1232.5	1228.1	1316.5	1349.7
65°	1114.6	1067.1	1070.7	1152.3	1188.1
67.5°	950.2	906.6	926.6	1005.0	1028.8
70°	782.7	743.8	779.0	845.1	856.9
72.5°	625.5	592.7	640.4	686.7	689.6
75°	472.8	452.5	501.7	532.3	532.5
77.5°	338.3	327.7	373.2	393.9	395.2
80°	219.4	224.2	259.9	276.3	283.4
82.5°	127.9	139.2	167.2	194.8	202.3
85°	61.6	75.1	99.5	120.7	129.4
87.5°	21.2	30.3	41.6	46.1	44.8
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	16.83	18.41	17.19	18.72	19.04	17.00	18.58	17.36	18.89	19.21
	3H	18.28	19.70	18.65	20.03	20.39	18.64	20.06	19.02	20.39	20.75
	4H	18.70	20.04	19.10	20.39	20.77	19.14	20.48	19.54	20.83	21.21
	6H	18.92	20.16	19.33	20.53	20.92	19.44	20.68	19.85	21.04	21.43
	8H	18.96	20.14	19.38	20.53	20.93	19.52	20.71	19.95	21.09	21.49
	12H	18.96	20.09	19.39	20.47	20.90	19.59	20.72	20.02	21.10	21.53
4H	2H	17.34	18.68	17.74	19.03	19.40	17.48	18.82	17.88	19.17	19.54
	3H	18.98	20.09	19.39	20.49	20.89	19.33	20.44	19.74	20.84	21.24
	4H	19.49	20.49	19.92	20.91	21.34	19.94	20.95	20.38	21.36	21.80
	6H	19.79	20.66	20.25	21.11	21.56	20.34	21.22	20.80	21.66	22.11
	8H	19.85	20.66	20.31	21.11	21.57	20.46	21.28	20.93	21.72	22.19
	12H	19.87	20.60	20.35	21.08	21.55	20.56	21.29	21.04	21.77	22.24
8H	4H	19.71	20.53	20.18	20.97	21.44	20.12	20.94	20.59	21.38	21.85
	6H	20.08	20.76	20.58	21.25	21.72	20.60	21.28	21.10	21.77	22.24
	8H	20.17	20.77	20.68	21.28	21.77	20.78	21.38	21.29	21.89	22.38
	12H	20.22	20.76	20.73	21.25	21.81	20.94	21.47	21.44	21.96	22.53
12H	4H	19.73	20.46	20.21	20.93	21.40	20.12	20.86	20.61	21.33	21.80
	6H	20.10	20.71	20.61	21.22	21.70	20.61	21.21	21.12	21.72	22.21
	8H	20.23	20.76	20.74	21.26	21.82	20.83	21.36	21.34	21.85	22.42