

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: P1499267

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499267
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-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

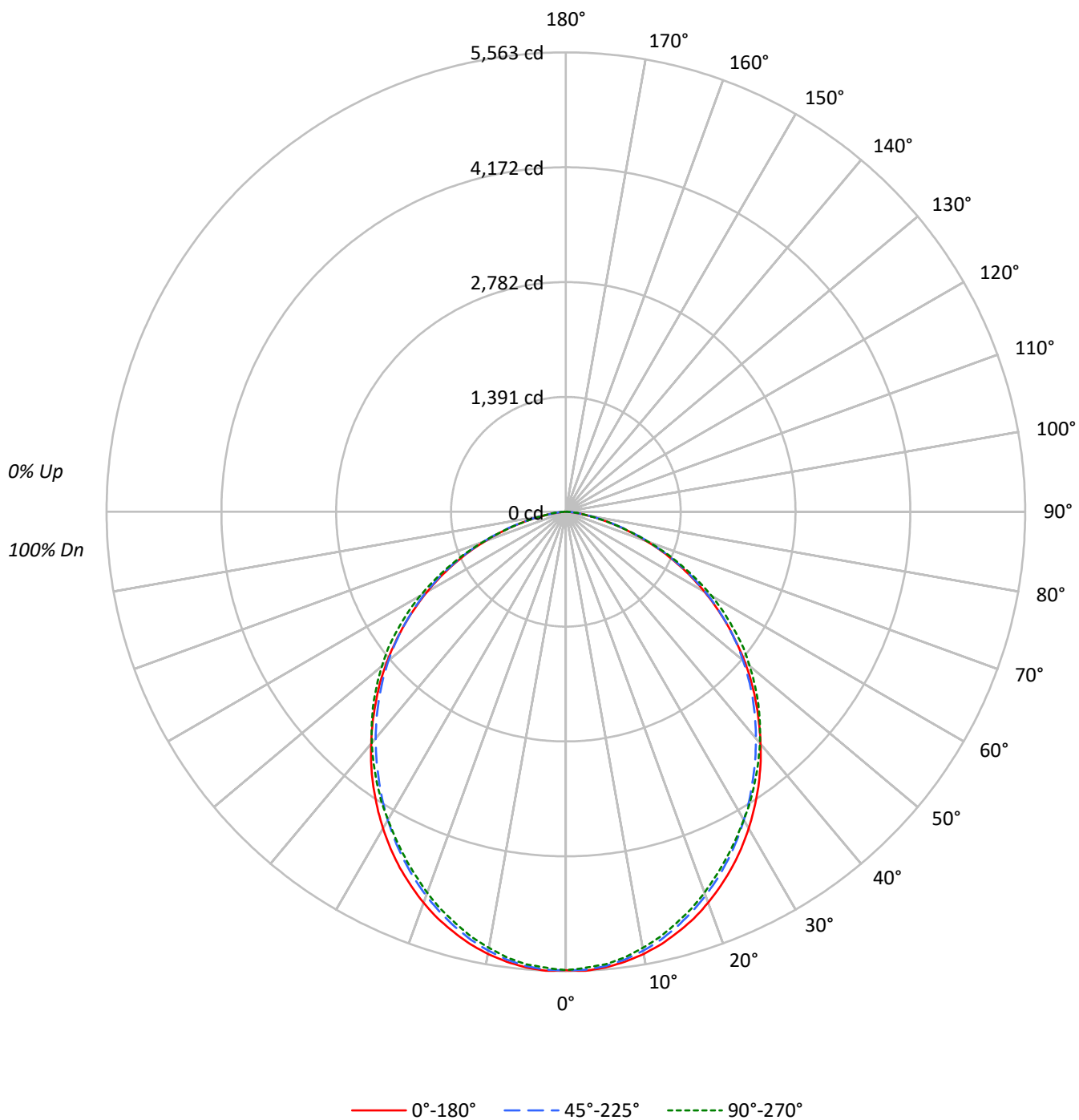
Lumens per Lamp: N/A
Luminaire Lumens: 13573.0 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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			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	41
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7470	7470	7470
5°	7481	7458	7428
10°	7428	7375	7327
15°	7336	7244	7188
20°	7215	7082	7029
25°	7062	6899	6851
30°	6881	6699	6694
35°	6676	6489	6558
40°	6443	6292	6420
45°	6192	6089	6273
50°	5919	5867	6083
55°	5604	5602	5835
60°	5226	5268	5489
65°	4747	4816	4939
70°	4094	4180	4198
75°	3257	3343	3235
80°	2195	2255	2184
85°	1116	1451	1819

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6273 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.4	3.8
10°-20°	1465.1	10.8
20°-30°	2146.4	15.8
30°-40°	2494.2	18.4
40°-50°	2494.4	18.4
50°-60°	2151.5	15.9
60°-70°	1497.0	11.0
70°-80°	679.9	5.0
80°-90°	122.0	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°	4133.9	30.5
0°-40°	6628.1	48.8
0°-60°	11274.1	83.1
0°-90°	13573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13573.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5552	5552	5552	5552	5552	
5°	5539	5518	5522	5493	5500	525
15°	5266	5232	5201	5156	5160	1484
25°	4757	4709	4647	4605	4615	2189
35°	4065	4006	3951	3962	3993	2540
45°	3254	3205	3200	3257	3297	2510
55°	2389	2353	2388	2458	2488	2133
65°	1491	1479	1513	1536	1551	1476
75°	626	625	643	628	622	674
85°	72	80	94	111	118	108
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5551.7	5551.7	5551.7	5551.7	5551.7
2.5°	5563.4	5543.2	5551.7	5529.9	5526.7
5°	5539.0	5517.5	5521.9	5493.0	5499.6
7.5°	5496.3	5472.3	5469.7	5437.7	5444.3
10°	5436.8	5408.0	5398.0	5359.2	5362.9
12.5°	5360.9	5329.3	5309.6	5265.6	5272.3
15°	5266.3	5231.5	5200.7	5155.8	5160.3
17.5°	5162.3	5125.6	5080.3	5033.2	5043.7
20°	5038.9	4999.7	4946.3	4897.1	4909.1
22.5°	4902.5	4858.5	4803.8	4755.7	4763.7
25°	4756.9	4709.2	4647.3	4605.2	4614.8
27.5°	4598.6	4545.6	4484.1	4447.7	4462.3
30°	4428.7	4373.6	4312.1	4288.7	4308.3
32.5°	4249.5	4194.1	4135.3	4129.5	4157.6
35°	4064.6	4005.6	3950.8	3961.9	3992.8
37.5°	3872.2	3814.5	3768.2	3795.6	3827.8
40°	3668.0	3615.3	3582.2	3620.6	3655.0
42.5°	3463.2	3413.1	3393.5	3443.2	3480.4
45°	3254.1	3204.7	3200.0	3257.2	3296.8
47.5°	3046.8	2996.5	3004.9	3068.8	3104.3
50°	2827.5	2784.3	2803.0	2870.6	2906.1
52.5°	2607.4	2567.8	2597.4	2668.9	2710.6
55°	2389.0	2353.2	2387.9	2458.0	2487.5
57.5°	2164.9	2138.7	2176.7	2238.0	2266.3
60°	1941.9	1918.4	1957.7	2013.6	2039.9
62.5°	1716.6	1697.2	1737.3	1781.4	1796.4
65°	1491.1	1479.3	1512.7	1536.2	1551.4
67.5°	1270.0	1258.1	1289.6	1309.5	1313.3
70°	1040.7	1036.3	1062.5	1070.5	1067.2
72.5°	830.5	824.3	844.9	842.1	834.6
75°	626.5	624.6	643.1	628.1	622.3
77.5°	441.0	447.5	451.9	438.9	434.2
80°	283.3	293.8	291.0	286.4	281.9
82.5°	158.5	166.4	168.2	185.1	191.8
85°	72.3	79.6	94.0	111.0	117.8
87.5°	24.4	30.5	39.3	41.9	39.6
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	17.91	19.50	18.28	19.81	20.12	18.23	19.81	18.59	20.13	20.44
	3H	19.37	20.80	19.75	21.12	21.48	19.66	21.08	20.04	21.41	21.77
	4H	19.79	21.13	20.19	21.48	21.85	20.05	21.38	20.44	21.73	22.11
	6H	20.00	21.23	20.41	21.60	21.99	20.22	21.46	20.64	21.83	22.22
	8H	20.02	21.20	20.45	21.59	21.99	20.26	21.44	20.68	21.83	22.23
	12H	20.02	21.15	20.45	21.53	21.96	20.28	21.40	20.71	21.79	22.21
4H	2H	18.48	19.82	18.88	20.17	20.54	18.74	20.08	19.14	20.43	20.80
	3H	20.12	21.23	20.53	21.63	22.03	20.35	21.46	20.76	21.86	22.26
	4H	20.62	21.62	21.05	22.04	22.47	20.83	21.83	21.26	22.24	22.68
	6H	20.90	21.77	21.36	22.21	22.67	21.08	21.95	21.53	22.39	22.85
	8H	20.94	21.76	21.41	22.20	22.66	21.13	21.94	21.59	22.39	22.85
	12H	20.95	21.68	21.44	22.16	22.63	21.17	21.90	21.65	22.37	22.84
8H	4H	20.80	21.62	21.27	22.06	22.53	20.99	21.80	21.45	22.25	22.71
	6H	21.14	21.81	21.63	22.30	22.77	21.29	21.96	21.79	22.45	22.93
	8H	21.20	21.80	21.72	22.31	22.80	21.38	21.98	21.89	22.48	22.97
	12H	21.24	21.77	21.75	22.26	22.82	21.45	21.98	21.96	22.47	23.03
12H	4H	20.80	21.53	21.28	22.00	22.48	20.99	21.71	21.47	22.19	22.66
	6H	21.13	21.73	21.65	22.24	22.73	21.29	21.89	21.80	22.40	22.88
	8H	21.23	21.76	21.74	22.25	22.82	21.40	21.93	21.91	22.43	22.99