

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: P1499447

Luminaire Tested: MAE-G-4-120-2STD-STD-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499447
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-35-90-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

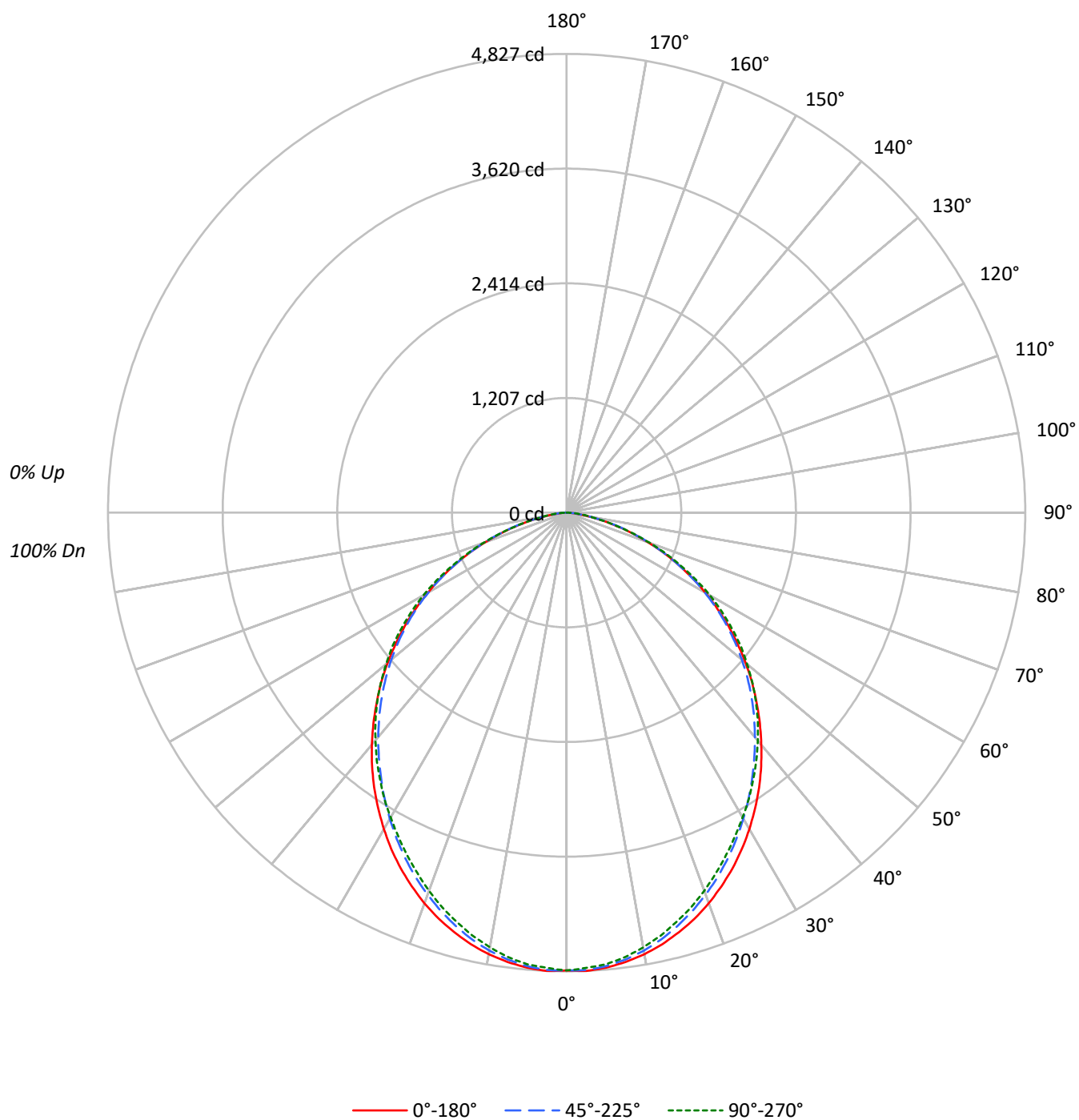
Lumens per Lamp: N/A
Luminaire Lumens: 11726.0 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	6482	6482	6482
5°	6491	6470	6441
10°	6446	6393	6345
15°	6366	6273	6213
20°	6263	6125	6064
25°	6131	5960	5900
30°	5975	5780	5754
35°	5799	5593	5627
40°	5598	5417	5498
45°	5381	5236	5363
50°	5145	5040	5192
55°	4873	4808	4978
60°	4546	4520	4693
65°	4134	4135	4253
70°	3570	3611	3662
75°	2844	2926	2891
80°	1926	2033	2039
85°	990	1359	1734

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5381 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.0	3.9
10°-20°	1268.8	10.8
20°-30°	1855.2	15.8
30°-40°	2151.6	18.3
40°-50°	2147.9	18.3
50°-60°	1850.2	15.8
60°-70°	1291.2	11.0
70°-80°	596.4	5.1
80°-90°	111.8	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°	3577.0	30.5
0°-40°	5728.6	48.9
0°-60°	9726.6	82.9
0°-90°	11726.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11726.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4817	4817	4817	4817	4817	
5°	4806	4789	4790	4763	4769	456
15°	4570	4539	4504	4457	4460	1288
25°	4130	4083	4015	3968	3974	1901
35°	3530	3470	3405	3403	3426	2207
45°	2828	2775	2752	2790	2819	2182
55°	2077	2036	2050	2100	2122	1855
65°	1298	1279	1299	1322	1336	1285
75°	547	541	563	558	556	589
85°	64	72	88	105	112	95
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4817.4	4817.4	4817.4	4817.4	4817.4
2.5°	4827.2	4811.5	4817.4	4796.3	4795.0
5°	4806.1	4788.7	4790.5	4762.9	4769.2
7.5°	4769.2	4749.1	4743.6	4712.3	4718.2
10°	4717.9	4693.1	4679.6	4641.2	4644.2
12.5°	4652.2	4624.1	4600.6	4556.4	4561.5
15°	4570.5	4538.9	4503.7	4457.2	4460.0
17.5°	4480.4	4446.1	4396.6	4347.2	4355.2
20°	4374.0	4336.2	4277.9	4226.6	4235.0
22.5°	4256.0	4213.1	4152.3	4101.4	4106.0
25°	4129.8	4082.6	4014.6	3968.4	3974.2
27.5°	3992.9	3940.3	3870.9	3829.7	3839.3
30°	3845.8	3790.5	3720.4	3689.8	3703.3
32.5°	3690.8	3634.2	3566.1	3550.1	3570.3
35°	3530.5	3470.2	3405.1	3403.3	3425.7
37.5°	3363.6	3304.4	3245.9	3257.7	3281.2
40°	3187.1	3131.4	3083.9	3105.1	3130.5
42.5°	3009.4	2955.8	2919.8	2950.7	2978.0
45°	2828.1	2774.9	2751.9	2789.5	2818.6
47.5°	2647.9	2594.3	2582.9	2626.2	2652.3
50°	2458.1	2410.3	2408.0	2455.0	2480.6
52.5°	2266.6	2222.4	2230.6	2281.0	2312.2
55°	2077.4	2036.3	2049.8	2099.9	2122.0
57.5°	1883.1	1850.4	1868.0	1912.6	1934.6
60°	1689.4	1659.5	1679.6	1722.3	1743.8
62.5°	1493.8	1467.7	1490.9	1526.7	1540.6
65°	1298.5	1278.9	1298.9	1322.0	1335.9
67.5°	1106.1	1087.8	1109.6	1131.8	1136.9
70°	907.4	895.9	917.9	931.1	930.9
72.5°	724.5	713.2	734.2	739.1	735.4
75°	547.1	541.2	562.8	558.1	556.2
77.5°	386.0	388.9	400.3	396.7	395.9
80°	248.6	257.3	262.4	264.9	263.1
82.5°	139.8	147.7	155.4	173.7	181.0
85°	64.1	72.0	88.0	105.2	112.3
87.5°	21.7	27.8	37.0	39.7	37.6
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	17.42	19.00	17.79	19.32	19.63	17.64	19.23	18.01	19.54	19.86
	3H	18.89	20.31	19.26	20.64	21.00	19.11	20.54	19.49	20.86	21.22
	4H	19.31	20.65	19.71	21.00	21.37	19.53	20.86	19.93	21.21	21.59
	6H	19.52	20.75	19.93	21.12	21.51	19.73	20.97	20.15	21.34	21.73
	8H	19.54	20.72	19.97	21.11	21.51	19.78	20.96	20.20	21.35	21.75
	12H	19.54	20.67	19.97	21.05	21.48	19.81	20.94	20.24	21.32	21.75
4H	2H	17.98	19.32	18.38	19.66	20.04	18.16	19.50	18.56	19.85	20.22
	3H	19.62	20.73	20.03	21.13	21.53	19.81	20.93	20.22	21.32	21.72
	4H	20.13	21.13	20.56	21.55	21.98	20.32	21.32	20.75	21.74	22.17
	6H	20.42	21.29	20.87	21.73	22.19	20.61	21.48	21.06	21.92	22.38
	8H	20.46	21.27	20.92	21.72	22.18	20.68	21.49	21.14	21.93	22.40
	12H	20.47	21.20	20.95	21.68	22.15	20.73	21.45	21.21	21.93	22.40
8H	4H	20.32	21.13	20.78	21.58	22.04	20.49	21.30	20.95	21.75	22.21
	6H	20.66	21.33	21.16	21.82	22.30	20.84	21.51	21.33	22.00	22.47
	8H	20.73	21.33	21.24	21.84	22.33	20.94	21.54	21.45	22.05	22.54
	12H	20.77	21.30	21.28	21.79	22.35	21.03	21.56	21.54	22.05	22.62
12H	4H	20.32	21.05	20.80	21.52	21.99	20.49	21.22	20.97	21.69	22.16
	6H	20.66	21.26	21.17	21.77	22.26	20.83	21.44	21.35	21.94	22.43
	8H	20.77	21.30	21.27	21.79	22.35	20.97	21.50	21.48	22.00	22.56