

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: P1499297

Luminaire Tested: MAE-G-4-120-2LO-HI-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499297
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-4-120-2LO-HI-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

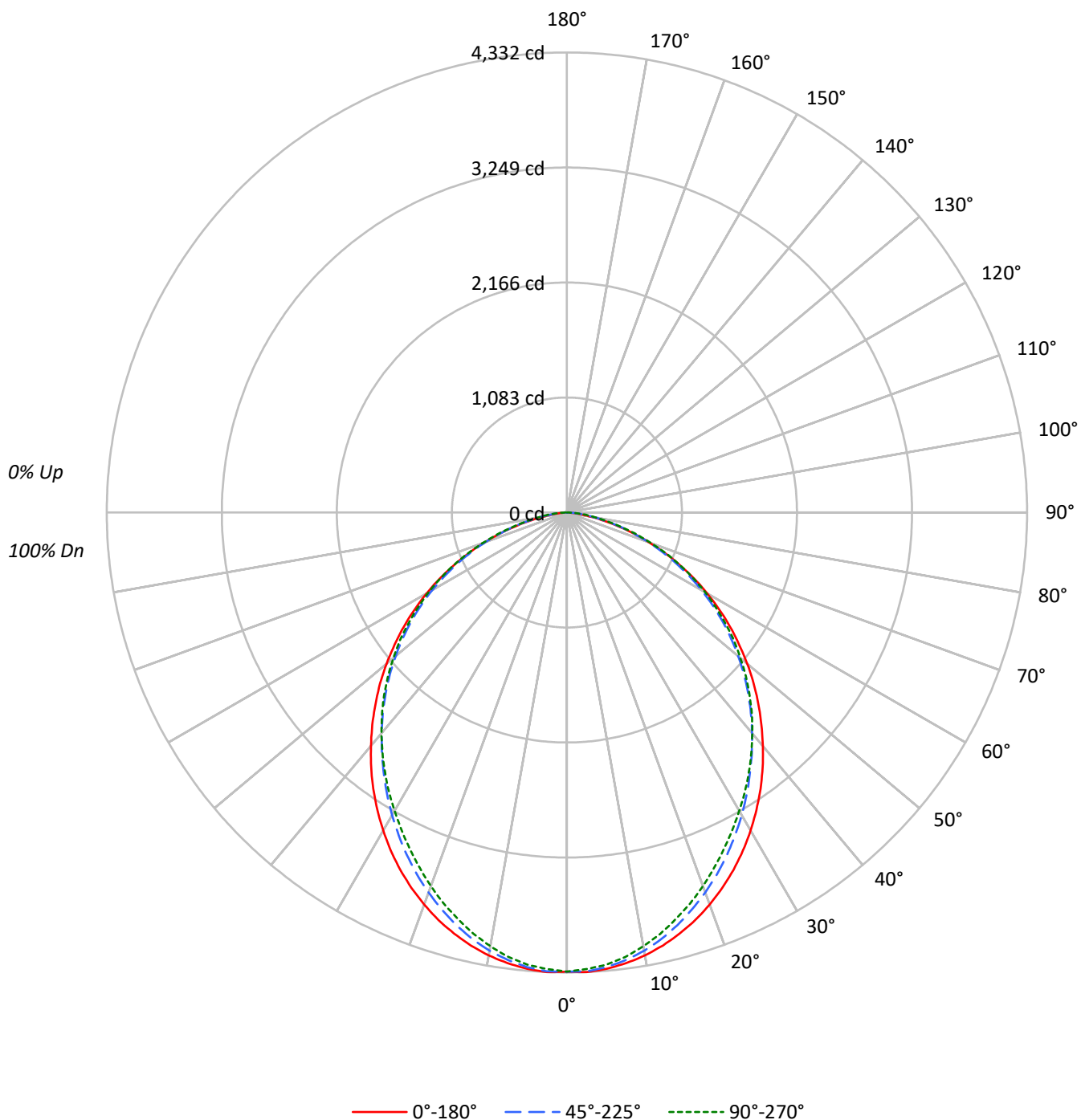
Lumens per Lamp: N/A
Luminaire Lumens: 10406.0 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.9
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	98	90	84	79	87	82	78		84	79	76		81
3	92	81	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	60	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	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5818	5818	5818
5°	5826	5804	5772
10°	5786	5725	5666
15°	5717	5602	5520
20°	5626	5451	5361
25°	5510	5288	5192
30°	5373	5112	5039
35°	5218	4933	4904
40°	5041	4763	4769
45°	4849	4591	4629
50°	4640	4408	4462
55°	4398	4196	4272
60°	4108	3939	4049
65°	3744	3612	3743
70°	3244	3205	3331
75°	2596	2685	2789
80°	1778	1998	2158
85°	937	1445	1911

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4849 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.1	3.9
10°-20°	1132.9	10.9
20°-30°	1648.2	15.8
30°-40°	1902.1	18.3
40°-50°	1889.6	18.2
50°-60°	1622.1	15.6
60°-70°	1141.0	11.0
70°-80°	550.1	5.3
80°-90°	113.9	1.1
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°	3187.2	30.6
0°-40°	5089.3	48.9
0°-60°	8601.0	82.7
0°-90°	10406.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10406.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4324	4324	4324	4324	4324	
5°	4313	4301	4297	4267	4274	409
15°	4104	4072	4021	3962	3963	1157
25°	3712	3656	3562	3498	3497	1709
35°	3177	3102	3003	2975	2986	1986
45°	2548	2477	2413	2419	2433	1966
55°	1875	1815	1789	1809	1821	1674
65°	1176	1137	1135	1161	1176	1163
75°	499	484	516	531	536	537
85°	61	71	94	115	124	89
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4323.9	4323.9	4323.9	4323.9	4323.9
2.5°	4331.8	4321.8	4323.9	4300.1	4302.2
5°	4313.4	4300.6	4297.2	4266.7	4273.7
7.5°	4280.4	4264.0	4251.7	4215.7	4221.1
10°	4235.1	4213.1	4190.3	4144.9	4147.1
12.5°	4176.5	4149.9	4113.8	4060.2	4063.0
15°	4104.1	4072.5	4021.4	3962.5	3962.7
17.5°	4023.7	3987.0	3919.2	3855.7	3860.1
20°	3929.4	3887.0	3807.1	3741.2	3744.3
22.5°	3824.4	3775.1	3690.0	3623.2	3621.9
25°	3711.6	3655.7	3561.7	3498.3	3497.4
27.5°	3589.7	3527.2	3428.4	3369.0	3370.8
30°	3458.6	3391.5	3290.2	3239.2	3243.5
32.5°	3320.4	3250.1	3149.8	3110.0	3119.0
35°	3177.0	3101.8	3003.4	2975.3	2985.5
37.5°	3027.1	2952.8	2858.4	2841.9	2852.3
40°	2870.0	2797.3	2711.8	2703.0	2715.3
42.5°	2710.8	2639.6	2563.9	2563.4	2576.5
45°	2548.5	2476.8	2412.8	2418.8	2432.7
47.5°	2385.8	2315.1	2261.9	2272.8	2285.6
50°	2216.8	2150.2	2106.0	2121.0	2131.7
52.5°	2043.6	1981.5	1948.6	1967.0	1983.9
55°	1874.9	1814.7	1788.9	1809.1	1821.2
57.5°	1700.4	1648.3	1628.6	1649.3	1662.9
60°	1526.6	1477.6	1463.7	1488.7	1504.8
62.5°	1350.8	1305.9	1299.8	1326.6	1341.2
65°	1176.1	1137.0	1134.6	1161.1	1175.7
67.5°	1002.3	967.3	974.2	1005.5	1014.1
70°	824.6	796.3	814.6	840.7	846.8
72.5°	659.2	635.2	661.1	682.5	685.7
75°	499.3	483.9	516.4	531.0	536.4
77.5°	354.0	350.3	378.0	392.6	399.1
80°	229.5	236.5	257.9	275.3	278.5
82.5°	130.5	140.4	160.8	186.0	195.8
85°	60.7	71.3	93.6	114.6	123.8
87.5°	20.4	28.1	39.7	43.3	41.5
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	17.05	18.63	17.41	18.95	19.26	17.03	18.61	17.39	18.92	19.24
	3H	18.53	19.95	18.90	20.28	20.64	18.59	20.02	18.97	20.35	20.71
	4H	18.96	20.30	19.36	20.65	21.03	19.09	20.43	19.49	20.77	21.15
	6H	19.18	20.42	19.59	20.78	21.17	19.38	20.62	19.79	20.98	21.37
	8H	19.21	20.39	19.64	20.78	21.18	19.46	20.64	19.88	21.03	21.43
	12H	19.21	20.34	19.64	20.73	21.15	19.51	20.64	19.94	21.02	21.45
4H	2H	17.58	18.92	17.98	19.26	19.64	17.56	18.90	17.96	19.25	19.62
	3H	19.24	20.35	19.65	20.75	21.15	19.32	20.44	19.73	20.83	21.23
	4H	19.76	20.76	20.19	21.18	21.61	19.92	20.92	20.35	21.34	21.77
	6H	20.06	20.93	20.51	21.37	21.83	20.30	21.18	20.76	21.62	22.08
	8H	20.11	20.93	20.57	21.37	21.84	20.41	21.23	20.88	21.67	22.14
	12H	20.13	20.86	20.61	21.33	21.80	20.50	21.23	20.98	21.71	22.18
8H	4H	19.96	20.78	20.43	21.22	21.69	20.11	20.92	20.57	21.37	21.83
	6H	20.33	21.00	20.82	21.49	21.97	20.57	21.24	21.07	21.73	22.21
	8H	20.41	21.01	20.92	21.52	22.01	20.73	21.33	21.24	21.84	22.33
	12H	20.45	20.99	20.96	21.48	22.04	20.87	21.40	21.38	21.89	22.46
12H	4H	19.97	20.70	20.45	21.18	21.65	20.11	20.84	20.59	21.32	21.79
	6H	20.34	20.95	20.85	21.45	21.94	20.57	21.18	21.09	21.69	22.18
	8H	20.46	20.99	20.97	21.48	22.05	20.77	21.31	21.28	21.80	22.36