

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: P1499117

Luminaire Tested: MAE-G-4-120-1STD-HI-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499117
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-4-120-1STD-HI-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

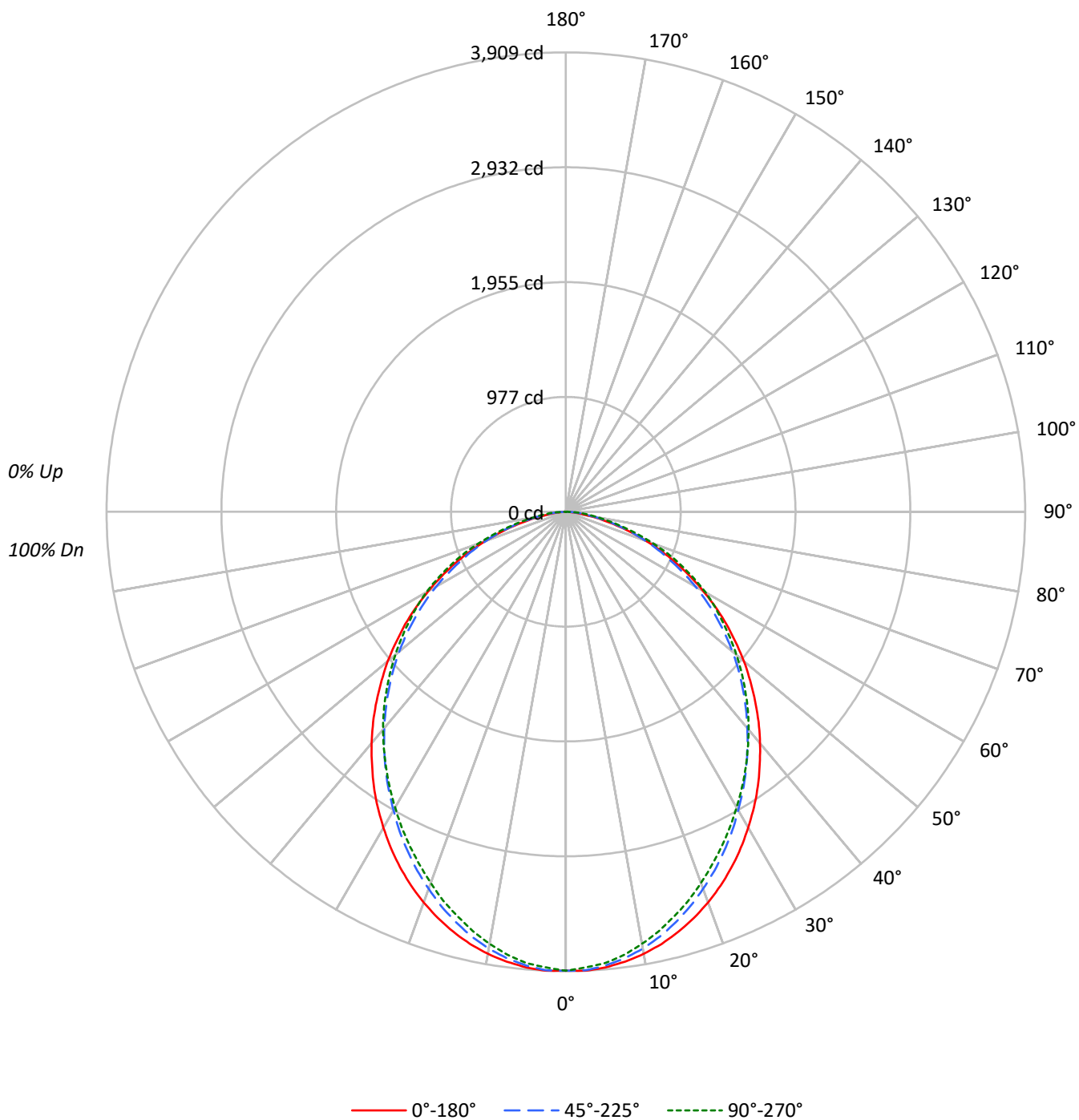
Lumens per Lamp: N/A
Luminaire Lumens: 9303.0 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 123
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	109	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	77		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	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°	5254	5254	5254
5°	5256	5235	5207
10°	5219	5156	5101
15°	5155	5036	4963
20°	5066	4888	4814
25°	4955	4731	4662
30°	4823	4557	4515
35°	4681	4392	4378
40°	4517	4221	4250
45°	4334	4052	4110
50°	4140	3873	3965
55°	3913	3666	3817
60°	3636	3430	3692
65°	3313	3131	3461
70°	2878	2832	3129
75°	2302	2442	2637
80°	1598	1930	2156
85°	895	1501	1981

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4334 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.4	3.9
10°-20°	1019.6	11.0
20°-30°	1478.0	15.9
30°-40°	1697.7	18.2
40°-50°	1677.3	18.0
50°-60°	1434.2	15.4
60°-70°	1014.9	10.9
70°-80°	502.1	5.4
80°-90°	112.9	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°	2864.0	30.8
0°-40°	4561.6	49.0
0°-60°	7673.1	82.5
0°-90°	9303.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9303.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3905	3905	3905	3905	3905	
5°	3892	3889	3876	3846	3855	369
15°	3700	3678	3615	3559	3563	1043
25°	3338	3284	3187	3135	3140	1536
35°	2850	2774	2674	2652	2666	1780
45°	2278	2207	2130	2142	2160	1757
55°	1668	1603	1563	1597	1627	1489
65°	1041	989	984	1056	1087	1029
75°	443	421	470	504	507	478
85°	58	72	97	119	128	82
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3905.0	3905.0	3905.0	3905.0	3905.0
2.5°	3909.4	3912.9	3905.0	3874.6	3880.6
5°	3891.8	3888.7	3876.1	3846.3	3855.2
7.5°	3860.9	3855.1	3832.4	3796.7	3802.3
10°	3820.0	3808.4	3774.2	3729.2	3733.4
12.5°	3766.8	3750.7	3702.2	3650.4	3654.6
15°	3700.5	3677.6	3615.1	3559.4	3563.0
17.5°	3624.3	3597.3	3521.2	3460.5	3469.6
20°	3538.1	3502.0	3414.0	3355.3	3362.3
22.5°	3442.7	3397.8	3304.7	3246.9	3251.3
25°	3337.7	3283.6	3186.7	3135.0	3140.4
27.5°	3224.8	3164.9	3064.1	3015.8	3025.5
30°	3104.2	3039.4	2933.0	2895.5	2906.0
32.5°	2980.1	2910.8	2805.3	2776.3	2786.9
35°	2849.6	2774.2	2674.1	2651.7	2665.5
37.5°	2710.1	2637.1	2537.5	2530.6	2543.0
40°	2571.5	2496.1	2403.3	2403.8	2419.7
42.5°	2427.5	2354.1	2267.9	2274.2	2293.0
45°	2277.9	2206.8	2129.5	2142.4	2160.0
47.5°	2127.1	2057.2	1991.2	2008.4	2030.5
50°	1977.6	1909.7	1850.4	1874.3	1894.0
52.5°	1820.1	1755.6	1708.9	1735.1	1762.6
55°	1668.2	1602.7	1563.0	1596.8	1627.1
57.5°	1510.8	1455.4	1420.2	1463.5	1502.5
60°	1351.2	1297.0	1274.6	1333.8	1372.1
62.5°	1194.6	1141.9	1126.9	1200.0	1229.6
65°	1040.6	989.0	983.5	1055.5	1087.1
67.5°	887.3	840.4	852.5	924.5	946.6
70°	731.7	689.7	719.8	782.4	795.3
72.5°	585.0	550.2	594.7	641.8	647.1
75°	442.9	420.7	469.7	503.8	507.3
77.5°	317.3	305.7	352.8	378.5	383.1
80°	206.3	210.6	249.1	270.3	278.3
82.5°	120.5	131.9	162.4	191.2	199.5
85°	58.0	71.6	97.2	119.1	128.3
87.5°	20.0	29.1	40.8	45.3	44.1
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	16.58	18.16	16.94	18.48	18.79	16.61	18.20	16.98	18.51	18.83
	3H	18.04	19.46	18.41	19.79	20.15	18.30	19.72	18.68	20.05	20.41
	4H	18.47	19.81	18.87	20.16	20.54	18.84	20.18	19.24	20.52	20.90
	6H	18.70	19.93	19.11	20.30	20.69	19.17	20.41	19.58	20.78	21.17
	8H	18.73	19.91	19.16	20.30	20.70	19.27	20.46	19.70	20.85	21.24
	12H	18.74	19.87	19.17	20.25	20.68	19.35	20.48	19.78	20.86	21.29
4H	2H	17.08	18.42	17.48	18.77	19.15	17.11	18.45	17.51	18.80	19.17
	3H	18.73	19.84	19.14	20.24	20.64	19.00	20.12	19.41	20.52	20.92
	4H	19.25	20.25	19.68	20.67	21.10	19.66	20.66	20.09	21.08	21.51
	6H	19.56	20.43	20.01	20.87	21.33	20.10	20.98	20.56	21.42	21.88
	8H	19.61	20.43	20.07	20.87	21.34	20.24	21.06	20.71	21.51	21.97
	12H	19.64	20.37	20.12	20.85	21.32	20.36	21.09	20.84	21.57	22.04
8H	4H	19.48	20.30	19.94	20.74	21.21	19.85	20.67	20.31	21.11	21.58
	6H	19.86	20.53	20.35	21.02	21.50	20.38	21.06	20.88	21.55	22.02
	8H	19.95	20.55	20.46	21.06	21.55	20.58	21.19	21.09	21.70	22.18
	12H	20.00	20.54	20.51	21.03	21.59	20.76	21.30	21.27	21.79	22.35
12H	4H	19.49	20.23	19.97	20.70	21.17	19.85	20.58	20.33	21.06	21.53
	6H	19.88	20.49	20.39	21.00	21.48	20.39	21.00	20.90	21.50	21.99
	8H	20.02	20.55	20.52	21.04	21.61	20.64	21.17	21.14	21.66	22.23