

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: P1499111

Luminaire Tested: MAE-G-4-120-1STD-HI-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499111
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-35-90-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

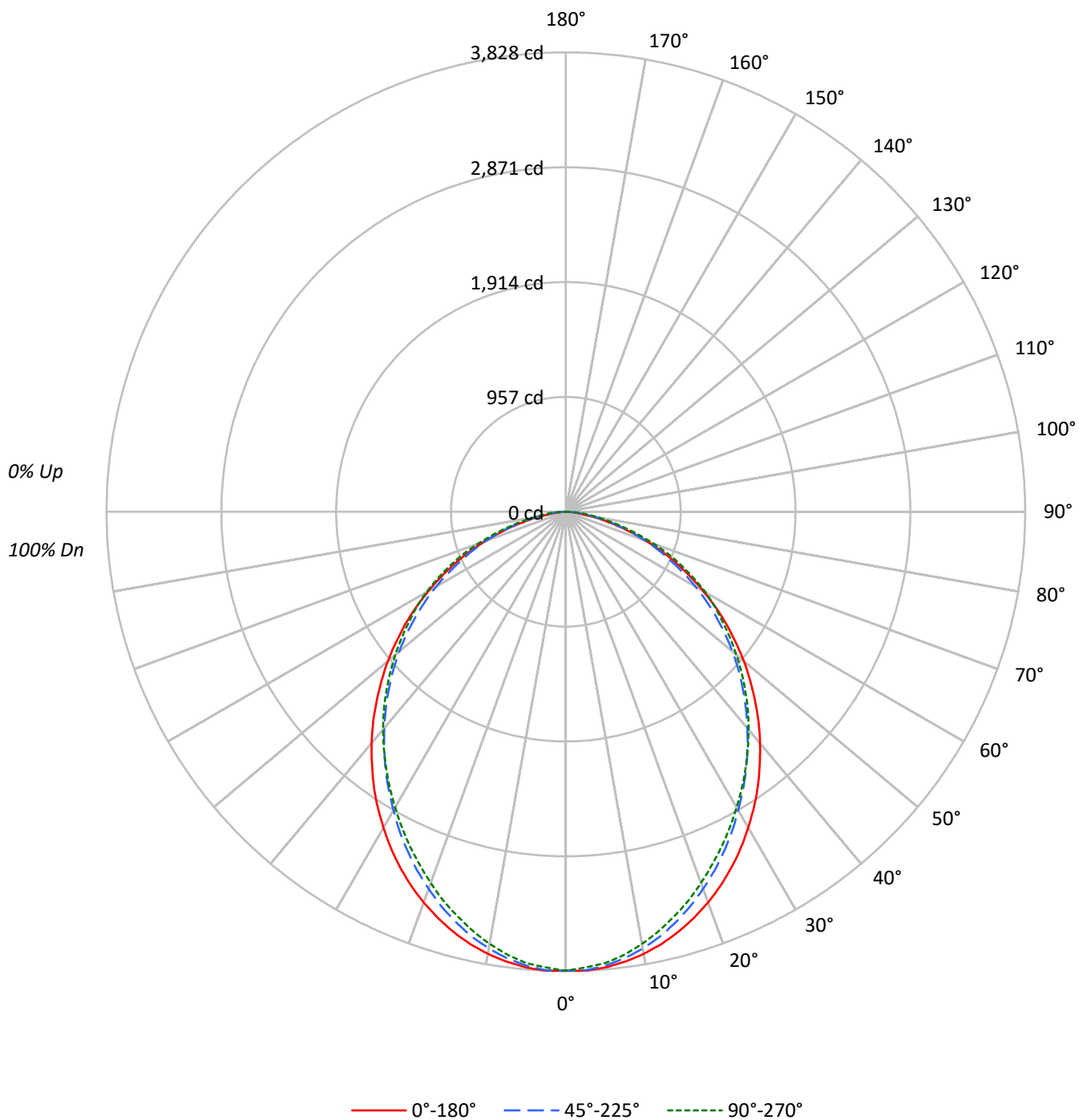
Lumens per Lamp: N/A
Luminaire Lumens: 9110.0 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	5145	5145	5145
5°	5147	5127	5099
10°	5111	5050	4995
15°	5048	4931	4860
20°	4961	4787	4714
25°	4852	4633	4566
30°	4723	4462	4421
35°	4583	4301	4287
40°	4423	4134	4162
45°	4244	3968	4025
50°	4054	3793	3882
55°	3832	3590	3738
60°	3561	3359	3616
65°	3244	3066	3389
70°	2819	2773	3064
75°	2255	2391	2583
80°	1565	1890	2112
85°	878	1470	1939

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4244 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.8	3.9
10°-20°	998.4	11.0
20°-30°	1447.4	15.9
30°-40°	1662.4	18.2
40°-50°	1642.5	18.0
50°-60°	1404.5	15.4
60°-70°	993.9	10.9
70°-80°	491.7	5.4
80°-90°	110.5	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°	2804.6	30.8
0°-40°	4467.0	49.0
0°-60°	7513.9	82.5
0°-90°	9110.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9110.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3824	3824	3824	3824	3824	
5°	3811	3808	3796	3766	3775	361
15°	3624	3601	3540	3486	3489	1021
25°	3268	3216	3121	3070	3075	1504
35°	2790	2717	2619	2597	2610	1743
45°	2231	2161	2085	2098	2115	1720
55°	1634	1570	1531	1564	1593	1458
65°	1019	968	963	1034	1065	1008
75°	434	412	460	493	497	468
85°	57	70	95	117	126	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3824.0	3824.0	3824.0	3824.0	3824.0
2.5°	3828.2	3831.6	3824.0	3794.2	3800.1
5°	3811.0	3808.0	3795.7	3766.5	3775.2
7.5°	3780.8	3775.1	3752.9	3717.9	3723.5
10°	3740.7	3729.4	3695.9	3651.8	3656.0
12.5°	3688.7	3673.0	3625.4	3574.7	3578.7
15°	3623.6	3601.3	3540.2	3485.5	3489.1
17.5°	3549.0	3522.6	3448.2	3388.7	3397.6
20°	3464.7	3429.4	3343.2	3285.6	3292.5
22.5°	3371.3	3327.4	3236.2	3179.5	3183.8
25°	3268.5	3215.5	3120.7	3070.0	3075.3
27.5°	3158.0	3099.3	3000.5	2953.2	2962.6
30°	3039.9	2976.3	2872.2	2835.4	2845.7
32.5°	2918.3	2850.4	2747.1	2718.8	2729.1
35°	2790.4	2716.7	2618.6	2596.7	2610.2
37.5°	2653.8	2582.3	2484.9	2478.0	2490.2
40°	2518.2	2444.3	2353.4	2354.0	2369.5
42.5°	2377.1	2305.3	2220.9	2227.0	2245.4
45°	2230.6	2160.9	2085.3	2097.9	2115.2
47.5°	2083.0	2014.5	1949.9	1966.8	1988.3
50°	1936.5	1870.1	1812.0	1835.4	1854.7
52.5°	1782.3	1719.2	1673.5	1699.1	1726.0
55°	1633.6	1569.5	1530.6	1563.8	1593.3
57.5°	1479.4	1425.2	1390.8	1433.2	1471.3
60°	1323.2	1270.0	1248.2	1306.1	1343.6
62.5°	1169.8	1118.1	1103.5	1175.1	1204.0
65°	1019.0	968.4	963.1	1033.6	1064.6
67.5°	868.9	823.0	834.8	905.3	926.9
70°	716.5	675.4	704.9	766.2	778.8
72.5°	573.0	538.8	582.4	628.5	633.7
75°	433.7	411.9	459.9	493.3	496.8
77.5°	310.7	299.3	345.5	370.7	375.2
80°	202.0	206.3	243.9	264.7	272.6
82.5°	118.0	129.1	159.0	187.2	195.5
85°	56.9	70.2	95.2	116.6	125.6
87.5°	19.5	28.4	39.9	44.4	43.1
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	16.51	18.09	16.87	18.40	18.72	16.54	18.12	16.91	18.44	18.75
	3H	17.96	19.39	18.34	19.72	20.08	18.23	19.65	18.60	19.98	20.34
	4H	18.40	19.74	18.80	20.09	20.46	18.76	20.10	19.16	20.45	20.83
	6H	18.62	19.86	19.03	20.23	20.62	19.10	20.34	19.51	20.70	21.09
	8H	18.66	19.84	19.08	20.23	20.63	19.20	20.38	19.63	20.77	21.17
	12H	18.67	19.80	19.09	20.18	20.61	19.28	20.41	19.71	20.79	21.22
4H	2H	17.01	18.35	17.41	18.70	19.07	17.04	18.38	17.44	18.72	19.10
	3H	18.66	19.77	19.07	20.17	20.57	18.93	20.05	19.34	20.44	20.84
	4H	19.17	20.18	19.61	20.59	21.03	19.58	20.59	20.02	21.00	21.44
	6H	19.48	20.36	19.94	20.80	21.26	20.03	20.90	20.48	21.35	21.80
	8H	19.54	20.36	20.00	20.80	21.27	20.17	20.99	20.63	21.43	21.90
	12H	19.56	20.30	20.05	20.77	21.24	20.28	21.02	20.77	21.49	21.96
8H	4H	19.41	20.22	19.87	20.67	21.13	19.78	20.59	20.24	21.04	21.50
	6H	19.78	20.46	20.28	20.95	21.42	20.31	20.98	20.80	21.47	21.95
	8H	19.87	20.48	20.39	20.99	21.48	20.51	21.12	21.02	21.62	22.11
	12H	19.93	20.47	20.44	20.96	21.52	20.69	21.22	21.20	21.71	22.28
12H	4H	19.42	20.15	19.90	20.63	21.10	19.78	20.51	20.26	20.99	21.46
	6H	19.81	20.42	20.32	20.92	21.41	20.32	20.92	20.83	21.43	21.92
	8H	19.94	20.48	20.45	20.97	21.53	20.56	21.10	21.07	21.59	22.15

END OF REPORT