

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: P1498643

Luminaire Tested: MAE-G-2-120-3HI-HI-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3HI-HI-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

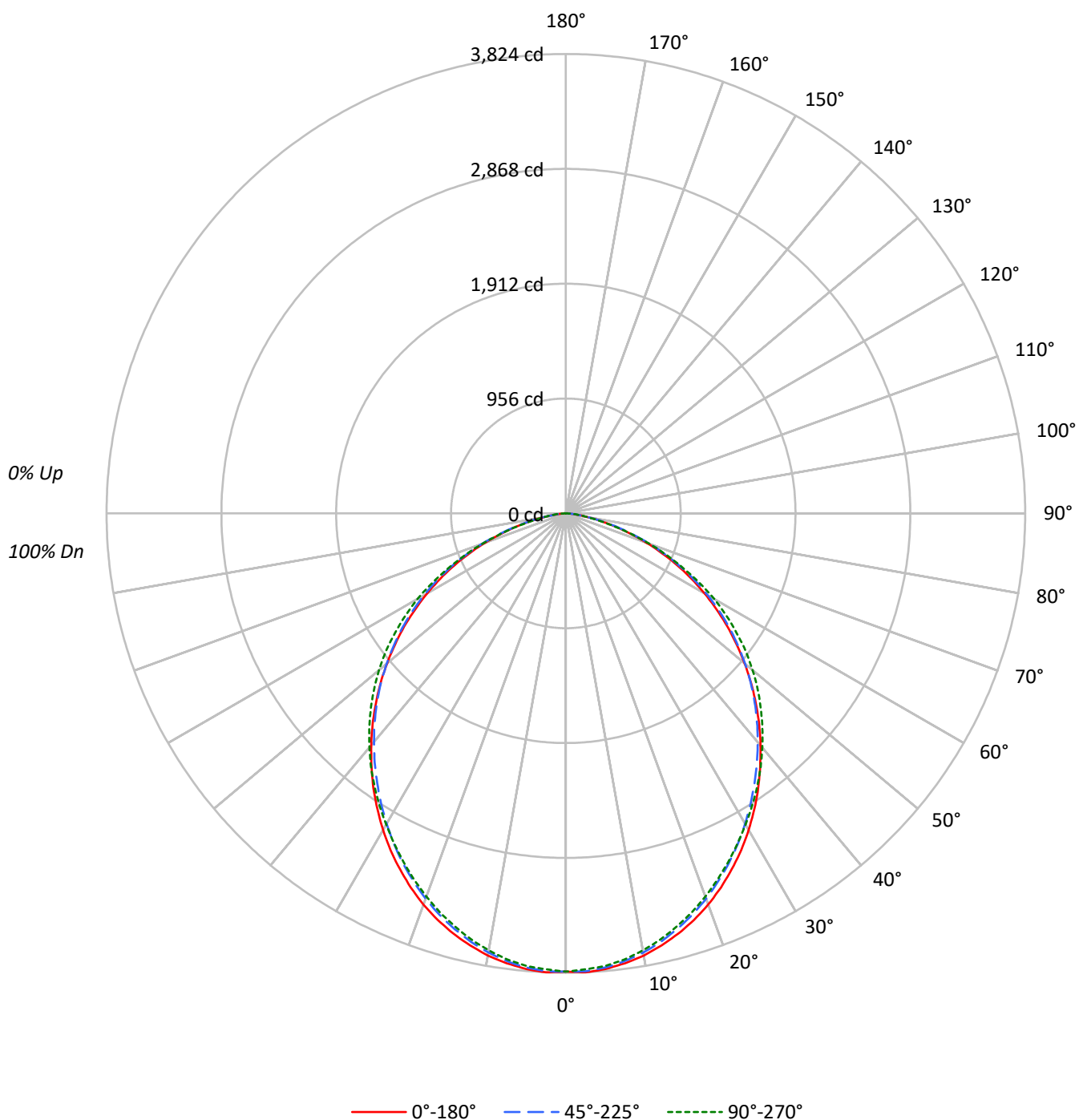
Lumens per Lamp: N/A
Luminaire Lumens: 9385.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 113
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

TEST NUMBER: P1498643

CATALOG NUMBER: MAE-G-2-120-3HI-HI-50-90-WDDCPH

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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10265	10265	10265
5°	10283	10250	10216
10°	10212	10144	10093
15°	10088	9977	9923
20°	9923	9775	9721
25°	9706	9538	9500
30°	9457	9270	9295
35°	9175	8997	9122
40°	8857	8730	8939
45°	8511	8458	8735
50°	8133	8151	8496
55°	7706	7795	8147
60°	7178	7339	7681
65°	6521	6723	6872
70°	5616	5841	5799
75°	4463	4640	4339
80°	3003	3045	2831
85°	1541	1908	2325

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8735 cd/sqm

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CATALOG NUMBER: MAE-G-2-120-3HI-HI-50-90-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.1	3.8
10°-20°	1009.1	10.8
20°-30°	1481.8	15.8
30°-40°	1725.0	18.4
40°-50°	1728.7	18.4
50°-60°	1493.8	15.9
60°-70°	1039.6	11.1
70°-80°	467.0	5.0
80°-90°	81.0	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°	2850.0	30.4
0°-40°	4574.9	48.7
0°-60°	7797.4	83.1
0°-90°	9385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9385.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3814	3814	3814	3814	3814	
5°	3807	3791	3795	3777	3782	361
15°	3621	3598	3581	3556	3562	1020
25°	3269	3240	3212	3187	3200	1505
35°	2793	2758	2739	2750	2777	1745
45°	2236	2211	2223	2266	2295	1725
55°	1643	1624	1661	1717	1736	1466
65°	1024	1021	1056	1075	1079	1012
75°	429	433	446	430	417	461
85°	50	54	62	71	75	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3814.5	3814.5	3814.5	3814.5	3814.5
2.5°	3824.1	3808.4	3814.5	3800.8	3798.1
5°	3806.9	3790.7	3794.7	3777.0	3782.0
7.5°	3777.4	3760.1	3759.6	3740.3	3745.0
10°	3737.3	3717.0	3712.2	3690.2	3693.8
12.5°	3684.0	3662.9	3652.9	3627.7	3633.8
15°	3621.2	3598.0	3581.4	3556.5	3561.9
17.5°	3548.6	3523.0	3502.8	3474.0	3482.9
20°	3465.2	3437.6	3413.6	3382.9	3394.7
22.5°	3371.7	3342.6	3315.2	3287.7	3299.5
25°	3268.9	3239.5	3212.4	3187.3	3199.7
27.5°	3160.7	3127.9	3100.7	3082.5	3096.2
30°	3043.6	3009.7	2983.3	2971.9	2991.5
32.5°	2919.9	2886.4	2863.0	2862.9	2885.6
35°	2793.0	2757.6	2738.6	2750.3	2776.7
37.5°	2656.5	2626.7	2613.5	2636.7	2663.5
40°	2521.2	2490.1	2485.3	2516.3	2544.6
42.5°	2381.3	2353.7	2355.5	2395.3	2421.7
45°	2236.3	2210.8	2222.6	2266.5	2295.3
47.5°	2094.0	2067.8	2087.2	2135.4	2166.4
50°	1942.7	1921.3	1947.0	2001.0	2029.4
52.5°	1792.3	1771.7	1805.1	1862.1	1889.6
55°	1642.6	1624.1	1661.4	1716.7	1736.5
57.5°	1487.8	1477.0	1515.7	1564.3	1584.9
60°	1333.7	1324.4	1363.6	1408.7	1427.2
62.5°	1179.4	1173.8	1211.2	1247.7	1254.0
65°	1024.1	1020.7	1055.8	1075.4	1079.3
67.5°	867.0	868.2	900.2	910.3	909.9
70°	713.8	713.1	742.4	745.2	737.0
72.5°	565.0	568.7	587.8	583.4	570.1
75°	429.3	432.7	446.3	429.8	417.3
77.5°	303.0	306.0	312.1	293.8	286.0
80°	193.8	199.7	196.5	187.9	182.7
82.5°	108.3	114.5	111.5	120.1	123.9
85°	49.9	53.7	61.8	71.3	75.3
87.5°	17.0	20.4	25.4	27.1	25.3
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	19.02	20.61	19.39	20.92	21.23	19.43	21.01	19.80	21.33	21.64
	3H	20.47	21.89	20.85	22.22	22.58	20.84	22.27	21.22	22.59	22.95
	4H	20.89	22.23	21.29	22.57	22.95	21.21	22.55	21.61	22.89	23.27
	6H	21.09	22.33	21.50	22.69	23.08	21.36	22.60	21.77	22.96	23.36
	8H	21.11	22.29	21.54	22.68	23.08	21.39	22.57	21.81	22.96	23.36
	12H	21.11	22.24	21.54	22.62	23.05	21.40	22.53	21.83	22.91	23.34
4H	2H	19.61	20.95	20.01	21.30	21.67	19.94	21.28	20.34	21.63	22.00
	3H	21.23	22.34	21.64	22.74	23.14	21.53	22.65	21.94	23.04	23.45
	4H	21.73	22.73	22.17	23.15	23.59	21.99	22.99	22.42	23.40	23.84
	6H	22.01	22.88	22.46	23.32	23.78	22.21	23.08	22.66	23.52	23.98
	8H	22.05	22.86	22.51	23.30	23.77	22.25	23.06	22.71	23.51	23.97
	12H	22.06	22.78	22.54	23.26	23.73	22.28	23.01	22.76	23.48	23.95
8H	4H	21.92	22.73	22.38	23.17	23.64	22.15	22.96	22.61	23.40	23.87
	6H	22.24	22.91	22.74	23.40	23.88	22.42	23.09	22.91	23.58	24.05
	8H	22.31	22.91	22.82	23.42	23.90	22.48	23.08	23.00	23.59	24.08
	12H	22.34	22.87	22.85	23.36	23.92	22.55	23.07	23.05	23.57	24.13
12H	4H	21.91	22.64	22.39	23.12	23.59	22.14	22.87	22.62	23.35	23.82
	6H	22.24	22.84	22.75	23.35	23.83	22.41	23.01	22.92	23.52	24.00
	8H	22.33	22.86	22.84	23.35	23.92	22.51	23.04	23.02	23.53	24.09