

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: P1498650

Luminaire Tested: MAE-G-2-120-3HI-LO-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498650
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-LO-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

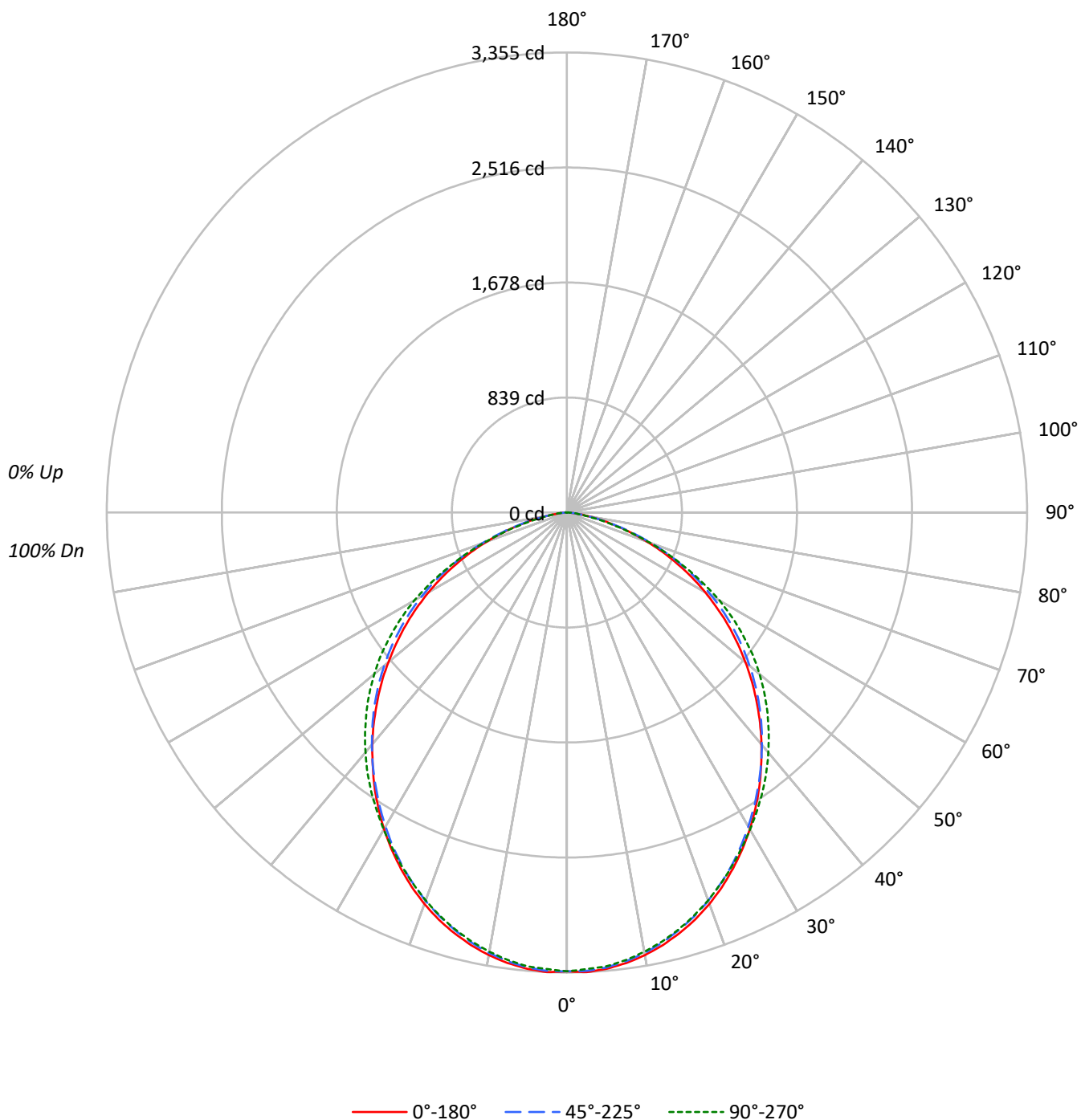
Lumens per Lamp: N/A
Luminaire Lumens: 8301.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 92.3
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9004	9004	9004
5°	9021	8995	8972
10°	8958	8913	8887
15°	8847	8785	8769
20°	8700	8629	8619
25°	8507	8438	8451
30°	8285	8218	8295
35°	8035	7992	8167
40°	7752	7771	8027
45°	7446	7543	7868
50°	7111	7281	7675
55°	6736	6973	7365
60°	6267	6572	6923
65°	5684	6012	6116
70°	4884	5173	5043
75°	3869	4015	3592
80°	2583	2481	2122
85°	1303	1430	1646

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7868 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.3	3.8
10°-20°	888.5	10.7
20°-30°	1309.4	15.8
30°-40°	1529.6	18.4
40°-50°	1537.9	18.5
50°-60°	1332.2	16.0
60°-70°	922.5	11.1
70°-80°	401.9	4.8
80°-90°	63.7	0.8
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°	2513.2	30.3
0°-40°	4042.8	48.7
0°-60°	6912.9	83.3
0°-90°	8301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8301.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3346	3346	3346	3346	3346	
5°	3340	3324	3330	3318	3322	317
15°	3176	3157	3153	3141	3148	895
25°	2865	2846	2842	2832	2846	1319
35°	2446	2426	2433	2457	2486	1528
45°	1956	1947	1982	2036	2067	1510
55°	1436	1432	1486	1549	1570	1282
65°	893	902	944	959	960	882
75°	372	381	386	361	346	400
85°	42	44	46	52	53	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3346.1	3346.1	3346.1	3346.1	3346.1
2.5°	3355.1	3339.0	3346.1	3336.7	3332.6
5°	3339.7	3323.8	3330.0	3317.7	3321.6
7.5°	3313.7	3297.6	3301.1	3288.6	3292.7
10°	3278.2	3260.2	3261.9	3248.8	3252.3
12.5°	3231.1	3213.5	3212.9	3198.6	3205.0
15°	3175.8	3157.3	3153.4	3141.2	3147.5
17.5°	3111.7	3092.3	3088.1	3073.2	3082.7
20°	3038.1	3018.2	3013.1	2996.7	3009.9
22.5°	2955.7	2936.0	2929.1	2916.5	2930.4
25°	2865.0	2846.5	2841.8	2831.6	2846.3
27.5°	2769.6	2749.2	2746.0	2742.7	2758.7
30°	2666.4	2646.1	2644.8	2647.6	2669.7
32.5°	2557.3	2538.5	2540.4	2554.1	2579.1
35°	2445.8	2426.3	2432.7	2457.1	2486.1
37.5°	2325.6	2311.6	2323.9	2359.0	2388.6
40°	2206.7	2191.9	2212.2	2254.3	2285.1
42.5°	2083.9	2072.7	2098.5	2148.8	2177.9
45°	1956.5	1947.4	1982.1	2035.7	2067.4
47.5°	1832.0	1821.8	1862.9	1920.1	1953.8
50°	1698.6	1693.1	1739.2	1801.5	1833.2
52.5°	1567.4	1561.8	1613.7	1678.5	1708.3
55°	1435.7	1432.2	1486.3	1548.6	1569.9
57.5°	1299.7	1303.0	1356.8	1410.4	1431.8
60°	1164.5	1168.6	1221.2	1268.4	1286.3
62.5°	1029.4	1036.6	1084.4	1120.0	1124.0
65°	892.7	901.5	944.2	958.9	960.5
67.5°	755.0	766.6	802.5	805.1	802.3
70°	620.7	629.7	657.5	652.2	640.9
72.5°	490.4	501.7	515.3	502.2	486.3
75°	372.1	380.9	386.2	361.1	345.5
77.5°	261.8	267.6	264.1	237.9	226.7
80°	166.7	172.1	160.1	144.3	136.9
82.5°	92.3	96.4	86.1	88.9	90.4
85°	42.2	43.5	46.3	51.5	53.3
87.5°	14.4	16.2	18.6	19.6	18.0
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	18.57	20.15	18.93	20.46	20.78	19.14	20.72	19.50	21.04	21.35
	3H	20.00	21.43	20.38	21.75	22.11	20.49	21.91	20.87	22.24	22.60
	4H	20.41	21.75	20.81	22.10	22.48	20.81	22.14	21.21	22.49	22.87
	6H	20.61	21.84	21.02	22.21	22.60	20.92	22.15	21.33	22.52	22.91
	8H	20.63	21.81	21.05	22.20	22.60	20.93	22.10	21.35	22.49	22.89
	12H	20.62	21.75	21.05	22.13	22.56	20.92	22.05	21.35	22.43	22.86
4H	2H	19.18	20.51	19.57	20.86	21.24	19.64	20.98	20.04	21.32	21.70
	3H	20.78	21.89	21.19	22.29	22.69	21.17	22.28	21.58	22.68	23.08
	4H	21.28	22.28	21.71	22.69	23.13	21.56	22.56	22.00	22.98	23.41
	6H	21.54	22.41	22.00	22.85	23.31	21.73	22.60	22.19	23.04	23.50
	8H	21.58	22.39	22.04	22.83	23.30	21.75	22.56	22.21	23.00	23.47
	12H	21.59	22.31	22.07	22.79	23.26	21.76	22.48	22.24	22.96	23.43
8H	4H	21.45	22.26	21.91	22.70	23.17	21.71	22.52	22.17	22.97	23.43
	6H	21.76	22.43	22.26	22.92	23.40	21.91	22.58	22.41	23.07	23.55
	8H	21.82	22.42	22.33	22.92	23.41	21.95	22.55	22.46	23.06	23.54
	12H	21.85	22.37	22.35	22.86	23.43	21.98	22.51	22.49	23.00	23.57
12H	4H	21.44	22.17	21.92	22.64	23.11	21.71	22.43	22.19	22.91	23.38
	6H	21.75	22.35	22.26	22.85	23.34	21.90	22.50	22.41	23.01	23.50
	8H	21.84	22.36	22.34	22.85	23.42	21.97	22.49	22.48	22.99	23.55