

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: P1498692

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498692
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-STD-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

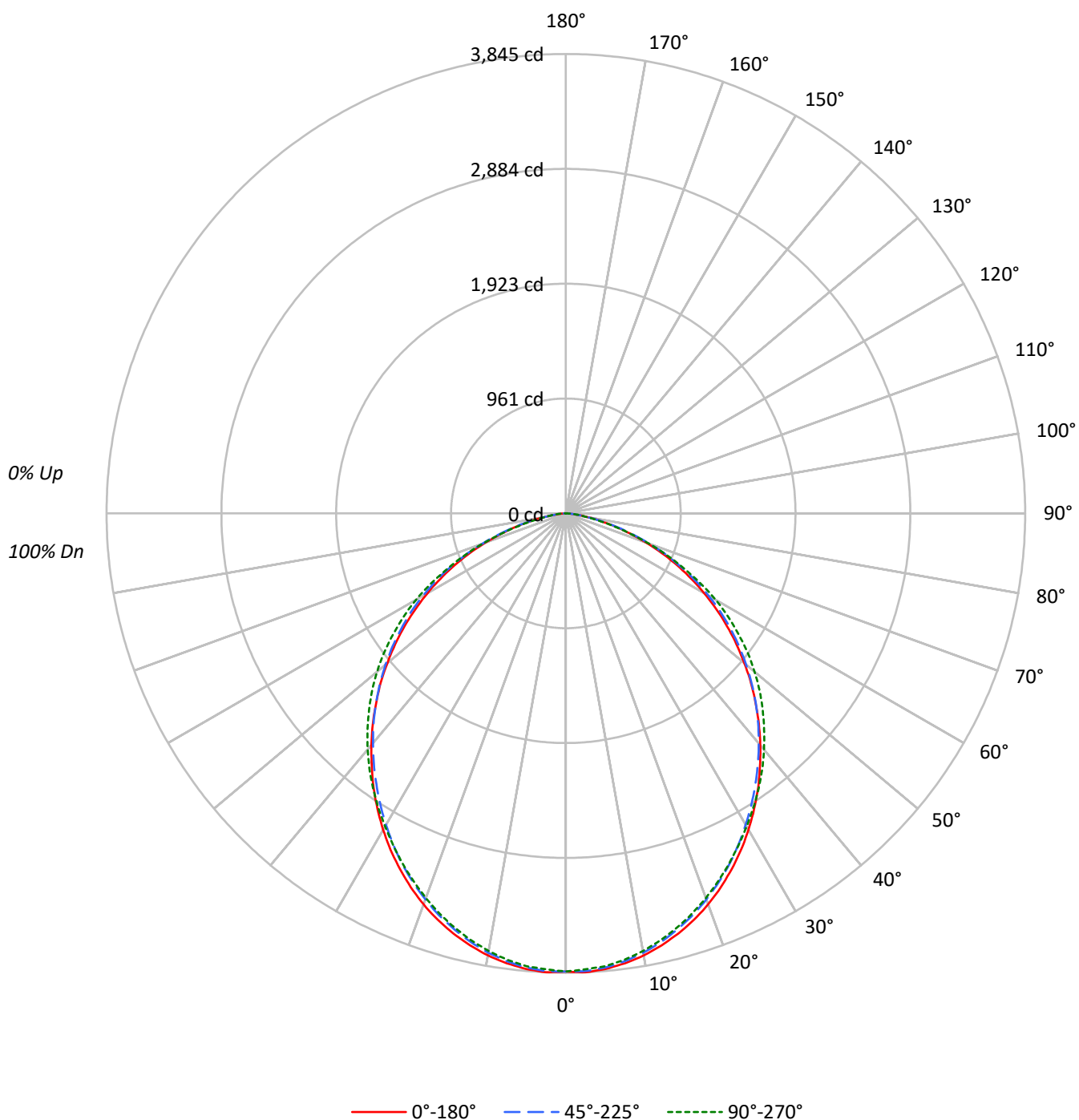
Lumens per Lamp: N/A
Luminaire Lumens: 9464.0 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 102.6
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	98	107	103	99	96	99	96	93		95	93	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°	10320	10320	10320
5°	10339	10307	10276
10°	10267	10204	10161
15°	10142	10045	10003
20°	9974	9850	9812
25°	9755	9619	9601
30°	9503	9356	9405
35°	9218	9087	9240
40°	8897	8825	9064
45°	8548	8555	8868
50°	8166	8250	8634
55°	7737	7894	8283
60°	7204	7435	7800
65°	6541	6807	6946
70°	5629	5894	5811
75°	4468	4642	4271
80°	2997	2982	2693
85°	1531	1819	2171

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8868 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.2	3.8
10°-20°	1015.9	10.7
20°-30°	1493.7	15.8
30°-40°	1741.1	18.4
40°-50°	1747.0	18.5
50°-60°	1511.0	16.0
60°-70°	1049.6	11.1
70°-80°	466.3	4.9
80°-90°	78.4	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°	2870.8	30.3
0°-40°	4611.9	48.7
0°-60°	7869.8	83.2
0°-90°	9464.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9464.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3835	3835	3835	3835	3835	
5°	3827	3810	3816	3799	3804	363
15°	3640	3618	3606	3585	3591	1026
25°	3285	3259	3240	3219	3233	1513
35°	2806	2776	2766	2784	2813	1753
45°	2246	2226	2248	2299	2330	1733
55°	1649	1636	1682	1744	1765	1472
65°	1027	1029	1069	1088	1091	1015
75°	430	436	446	425	411	462
85°	50	52	59	67	70	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3835.0	3835.0	3835.0	3835.0	3835.0
2.5°	3844.8	3828.0	3835.0	3822.2	3818.9
5°	3827.4	3810.4	3815.5	3799.0	3804.0
7.5°	3797.7	3780.0	3781.1	3763.5	3768.2
10°	3757.2	3736.7	3734.4	3714.8	3718.6
12.5°	3703.4	3682.7	3676.1	3654.0	3660.6
15°	3640.3	3617.7	3605.5	3584.6	3590.7
17.5°	3567.1	3542.7	3528.1	3503.5	3513.2
20°	3483.1	3457.1	3439.7	3413.3	3426.3
22.5°	3388.9	3362.1	3341.8	3319.0	3332.3
25°	3285.3	3258.8	3239.7	3219.3	3233.4
27.5°	3176.3	3146.9	3128.3	3115.2	3130.7
30°	3058.4	3028.3	3011.0	3004.9	3026.7
32.5°	2933.9	2904.6	2890.5	2896.2	2921.2
35°	2806.1	2775.5	2766.0	2783.8	2812.7
37.5°	2668.8	2643.8	2640.6	2670.2	2699.8
40°	2532.6	2506.7	2512.2	2549.5	2580.4
42.5°	2391.9	2369.7	2381.7	2428.2	2457.2
45°	2246.1	2226.1	2248.1	2298.6	2330.3
47.5°	2103.2	2082.2	2111.8	2166.5	2200.5
50°	1950.7	1934.8	1970.6	2031.1	2062.5
52.5°	1799.8	1784.4	1827.5	1891.0	1921.0
55°	1649.2	1635.9	1682.5	1743.9	1765.4
57.5°	1493.5	1488.0	1535.2	1588.7	1610.8
60°	1338.6	1334.4	1381.4	1429.9	1449.3
62.5°	1183.5	1183.0	1227.0	1265.1	1270.8
65°	1027.2	1028.8	1069.1	1087.7	1090.8
67.5°	869.3	874.9	910.4	917.9	916.4
70°	715.4	718.7	749.1	748.6	738.6
72.5°	565.8	572.9	590.8	582.5	567.3
75°	429.7	435.6	446.5	425.4	410.8
77.5°	302.9	307.3	309.7	287.1	277.4
80°	193.4	199.6	192.4	180.3	173.8
82.5°	107.8	113.4	107.2	113.8	117.0
85°	49.6	52.5	58.9	67.1	70.3
87.5°	16.9	19.7	24.0	25.5	23.6
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	19.04	20.62	19.41	20.94	21.25	19.51	21.09	19.87	21.41	21.72
	3H	20.48	21.91	20.86	22.23	22.60	20.90	22.32	21.27	22.65	23.01
	4H	20.90	22.24	21.30	22.58	22.96	21.25	22.58	21.65	22.93	23.31
	6H	21.10	22.33	21.51	22.70	23.09	21.38	22.62	21.79	22.98	23.38
	8H	21.12	22.30	21.55	22.69	23.09	21.40	22.58	21.83	22.97	23.37
	12H	21.12	22.25	21.55	22.63	23.06	21.41	22.54	21.84	22.92	23.35
4H	2H	19.64	20.97	20.03	21.32	21.70	20.02	21.35	20.41	21.70	22.08
	3H	21.25	22.36	21.66	22.76	23.16	21.59	22.70	22.00	23.09	23.50
	4H	21.75	22.75	22.18	23.17	23.60	22.02	23.02	22.45	23.43	23.87
	6H	22.02	22.89	22.48	23.33	23.79	22.22	23.09	22.67	23.53	23.99
	8H	22.06	22.87	22.52	23.32	23.78	22.25	23.06	22.71	23.50	23.97
	12H	22.07	22.80	22.55	23.27	23.74	22.27	23.00	22.75	23.48	23.95
8H	4H	21.93	22.74	22.39	23.19	23.65	22.17	22.98	22.63	23.43	23.89
	6H	22.25	22.92	22.75	23.41	23.89	22.42	23.09	22.91	23.57	24.05
	8H	22.31	22.91	22.83	23.42	23.91	22.47	23.07	22.98	23.58	24.07
	12H	22.34	22.87	22.85	23.36	23.93	22.52	23.05	23.03	23.54	24.11
12H	4H	21.93	22.65	22.41	23.13	23.60	22.17	22.89	22.65	23.37	23.84
	6H	22.24	22.84	22.75	23.35	23.84	22.41	23.01	22.92	23.52	24.00
	8H	22.34	22.86	22.84	23.36	23.92	22.49	23.02	23.00	23.51	24.08