

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: P1498686

Luminaire Tested: MAE-G-2-120-3HI-STD-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498686
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-40-90
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

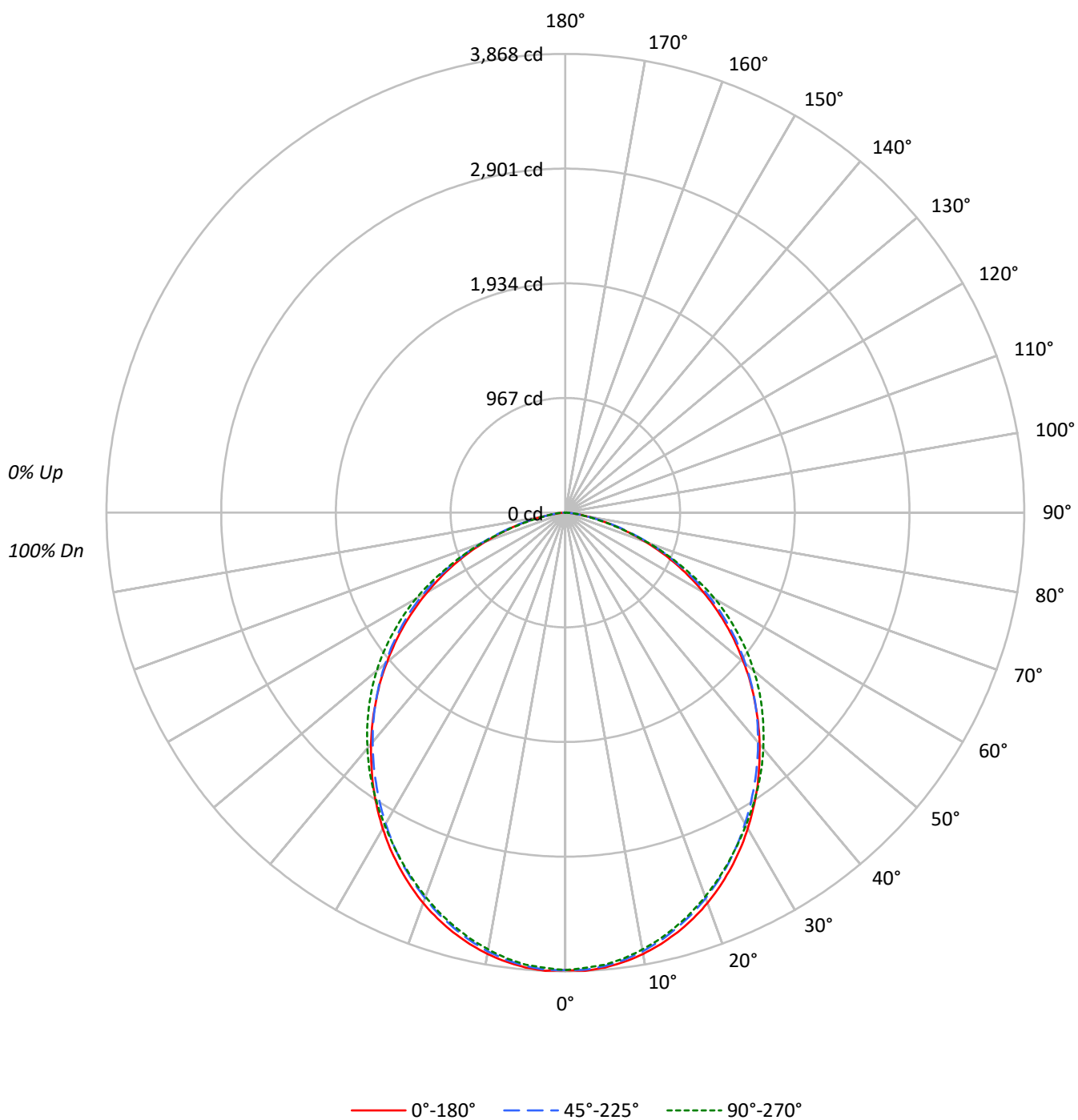
Lumens per Lamp: N/A
Luminaire Lumens: 9520.0 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	10381	10381	10381
5°	10400	10368	10336
10°	10327	10265	10221
15°	10202	10104	10063
20°	10033	9908	9870
25°	9813	9676	9658
30°	9560	9411	9460
35°	9273	9141	9295
40°	8949	8877	9118
45°	8598	8606	8920
50°	8215	8298	8686
55°	7783	7940	8331
60°	7246	7478	7846
65°	6579	6848	6987
70°	5662	5928	5845
75°	4494	4669	4296
80°	3016	2999	2709
85°	1541	1828	2186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8920 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.3	3.8
10°-20°	1021.9	10.7
20°-30°	1502.6	15.8
30°-40°	1751.4	18.4
40°-50°	1757.3	18.5
50°-60°	1519.9	16.0
60°-70°	1055.8	11.1
70°-80°	469.0	4.9
80°-90°	78.8	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°	2887.8	30.3
0°-40°	4639.2	48.7
0°-60°	7916.4	83.2
0°-90°	9520.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9520.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3858	3858	3858	3858	3858	
5°	3850	3833	3838	3822	3826	365
15°	3662	3639	3627	3606	3612	1032
25°	3305	3278	3259	3238	3253	1522
35°	2823	2792	2782	2800	2829	1764
45°	2259	2239	2261	2312	2344	1743
55°	1659	1646	1692	1754	1776	1481
65°	1033	1035	1075	1094	1097	1021
75°	432	438	449	428	413	464
85°	50	53	59	68	71	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3857.6	3857.6	3857.6	3857.6	3857.6
2.5°	3867.5	3850.6	3857.6	3844.9	3841.4
5°	3850.0	3833.0	3838.1	3821.5	3826.5
7.5°	3820.1	3802.3	3803.4	3785.7	3790.4
10°	3779.4	3758.9	3756.5	3736.8	3740.6
12.5°	3725.3	3704.4	3697.8	3675.6	3682.2
15°	3661.9	3639.2	3626.8	3605.7	3612.0
17.5°	3588.2	3563.5	3549.0	3524.1	3534.0
20°	3503.7	3477.6	3460.0	3433.5	3446.6
22.5°	3409.0	3382.1	3361.5	3338.6	3352.0
25°	3304.8	3278.1	3258.8	3238.5	3252.6
27.5°	3195.2	3165.5	3146.8	3133.7	3149.3
30°	3076.6	3046.3	3028.8	3022.7	3044.5
32.5°	2951.3	2921.8	2907.6	2913.4	2938.5
35°	2822.8	2791.9	2782.5	2800.2	2829.4
37.5°	2684.5	2659.5	2656.3	2686.0	2715.8
40°	2547.6	2521.5	2527.1	2564.5	2595.7
42.5°	2406.1	2383.7	2395.8	2442.5	2471.7
45°	2259.4	2239.2	2261.4	2312.2	2344.0
47.5°	2115.6	2094.5	2124.3	2179.3	2213.5
50°	1962.2	1946.3	1982.2	2043.1	2074.8
52.5°	1810.5	1795.0	1838.3	1902.2	1932.4
55°	1659.0	1645.6	1692.5	1754.2	1775.8
57.5°	1502.3	1496.8	1544.3	1598.1	1620.4
60°	1346.4	1342.2	1389.5	1438.4	1457.8
62.5°	1190.5	1190.0	1234.2	1272.6	1278.3
65°	1033.2	1034.8	1075.4	1094.1	1097.3
67.5°	874.5	880.0	915.7	923.4	921.9
70°	719.6	723.0	753.4	753.0	742.9
72.5°	569.2	576.4	594.3	585.9	570.7
75°	432.2	438.2	449.1	427.9	413.2
77.5°	304.7	309.0	311.5	288.8	279.0
80°	194.6	200.8	193.5	181.4	174.8
82.5°	108.4	114.1	107.8	114.4	117.6
85°	49.9	52.7	59.2	67.5	70.8
87.5°	17.1	19.9	24.1	25.6	23.8
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	19.06	20.64	19.43	20.96	21.27	19.53	21.11	19.90	21.43	21.74
	3H	20.50	21.93	20.88	22.26	22.62	20.92	22.34	21.30	22.67	23.03
	4H	20.92	22.26	21.32	22.61	22.98	21.27	22.60	21.67	22.95	23.33
	6H	21.12	22.35	21.53	22.72	23.11	21.40	22.64	21.82	23.00	23.40
	8H	21.14	22.32	21.57	22.71	23.11	21.42	22.60	21.85	22.99	23.39
	12H	21.14	22.27	21.57	22.65	23.08	21.43	22.56	21.86	22.94	23.37
4H	2H	19.66	20.99	20.06	21.34	21.72	20.04	21.37	20.43	21.72	22.10
	3H	21.27	22.38	21.68	22.78	23.18	21.61	22.72	22.02	23.12	23.52
	4H	21.77	22.77	22.20	23.19	23.62	22.04	23.04	22.47	23.45	23.89
	6H	22.04	22.91	22.50	23.35	23.81	22.24	23.11	22.69	23.55	24.01
	8H	22.08	22.89	22.54	23.34	23.80	22.27	23.08	22.73	23.53	23.99
	12H	22.09	22.82	22.57	23.29	23.76	22.29	23.02	22.78	23.50	23.97
8H	4H	21.95	22.76	22.41	23.21	23.67	22.19	23.00	22.65	23.45	23.91
	6H	22.27	22.94	22.77	23.43	23.91	22.44	23.11	22.93	23.60	24.07
	8H	22.33	22.93	22.85	23.44	23.93	22.49	23.09	23.00	23.60	24.09
	12H	22.36	22.89	22.87	23.38	23.95	22.54	23.07	23.05	23.56	24.13
12H	4H	21.95	22.67	22.43	23.15	23.62	22.19	22.91	22.67	23.39	23.86
	6H	22.26	22.86	22.77	23.37	23.86	22.43	23.03	22.94	23.54	24.02
	8H	22.36	22.88	22.86	23.38	23.94	22.52	23.04	23.02	23.53	24.10