

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: P1498638

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498638
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-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

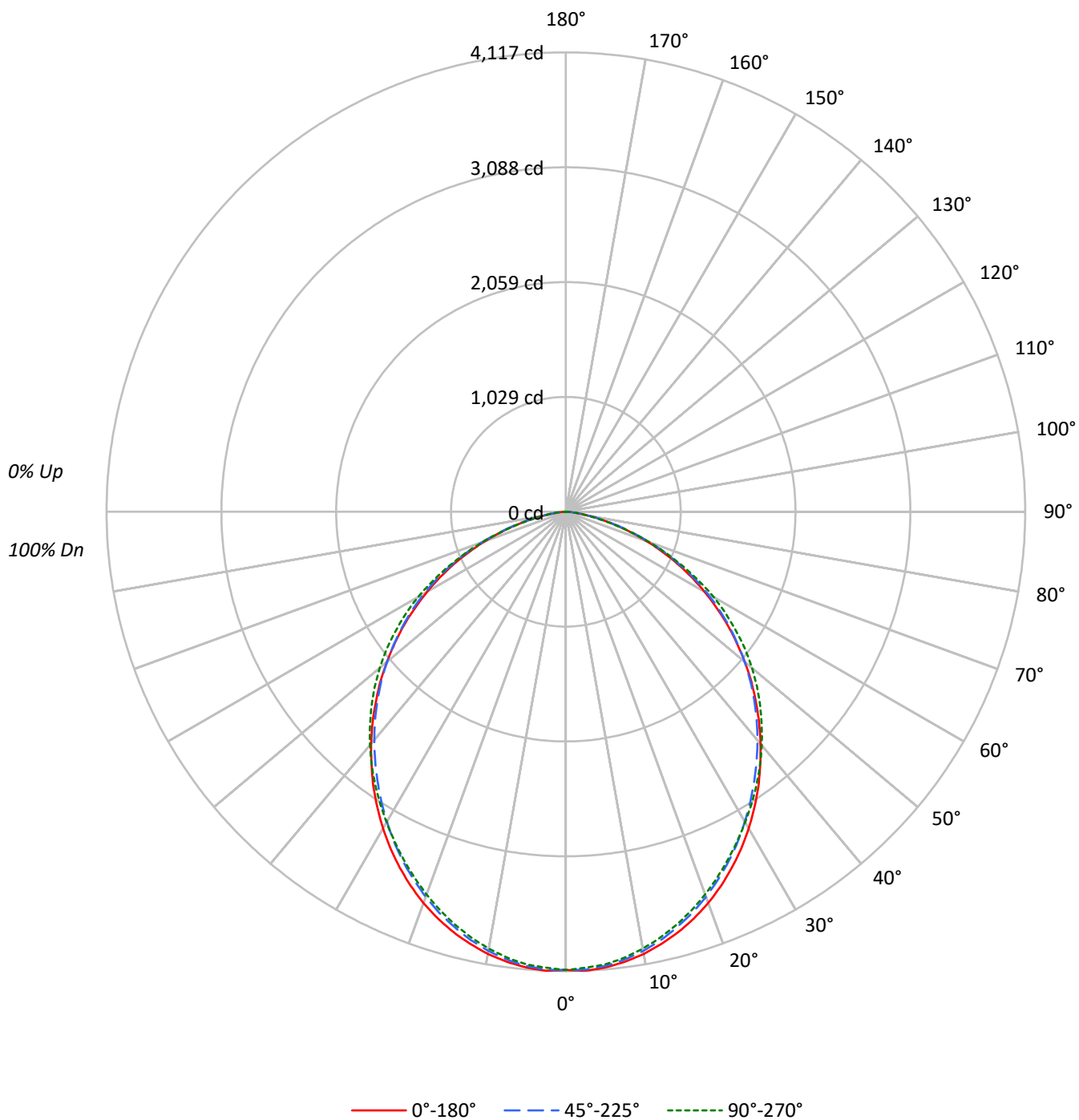
Lumens per Lamp: N/A
Luminaire Lumens: 10094.0 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 110.3
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
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°	11052	11052	11052
5°	11072	11036	10998
10°	10995	10919	10862
15°	10863	10737	10674
20°	10685	10517	10452
25°	10451	10259	10211
30°	10184	9967	9986
35°	9881	9671	9795
40°	9538	9383	9595
45°	9167	9087	9372
50°	8760	8755	9113
55°	8302	8371	8737
60°	7733	7880	8241
65°	7026	7220	7386
70°	6054	6282	6249
75°	4812	5005	4704
80°	3243	3307	3104
85°	1670	2096	2563

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 9372 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.6	3.8
10°-20°	1085.9	10.8
20°-30°	1593.9	15.8
30°-40°	1854.7	18.4
40°-50°	1857.8	18.4
50°-60°	1604.9	15.9
60°-70°	1117.6	11.1
70°-80°	504.0	5.0
80°-90°	88.4	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°	3066.5	30.4
0°-40°	4921.2	48.8
0°-60°	8383.9	83.1
0°-90°	10094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4107	4107	4107	4107	4107	
5°	4099	4082	4086	4066	4072	389
15°	3899	3874	3854	3826	3832	1099
25°	3520	3487	3455	3426	3439	1621
35°	3008	2968	2944	2954	2982	1879
45°	2409	2379	2388	2433	2463	1858
55°	1770	1747	1784	1842	1862	1579
65°	1104	1098	1134	1155	1160	1091
75°	463	466	481	465	452	497
85°	54	58	68	79	83	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4107.1	4107.1	4107.1	4107.1	4107.1
2.5°	4117.3	4100.7	4107.1	4091.9	4089.3
5°	4098.8	4081.7	4085.5	4065.9	4071.6
7.5°	4067.1	4048.7	4047.5	4025.9	4030.9
10°	4023.9	4002.1	3996.1	3971.3	3975.1
12.5°	3966.5	3943.7	3931.7	3903.4	3909.7
15°	3899.1	3873.8	3854.2	3825.9	3831.6
17.5°	3820.9	3792.8	3769.2	3736.3	3745.8
20°	3731.2	3700.7	3672.4	3637.7	3650.0
22.5°	3630.7	3598.5	3566.2	3534.8	3546.9
25°	3520.0	3487.1	3455.1	3426.2	3438.9
27.5°	3403.6	3366.9	3334.4	3312.9	3327.0
30°	3277.6	3239.6	3207.7	3193.4	3213.7
32.5°	3144.6	3106.8	3078.0	3075.8	3099.5
35°	3007.9	2968.0	2944.0	2954.2	2981.8
37.5°	2861.0	2827.0	2809.0	2831.7	2859.7
40°	2715.3	2680.0	2671.0	2701.8	2731.3
42.5°	2564.7	2533.0	2531.0	2571.5	2598.9
45°	2408.7	2379.1	2387.9	2432.9	2462.8
47.5°	2255.3	2225.1	2242.3	2291.7	2324.2
50°	2092.5	2067.4	2091.4	2147.2	2176.7
52.5°	1930.4	1906.4	1938.9	1997.8	2026.5
55°	1769.5	1747.4	1784.3	1841.7	1862.3
57.5°	1602.7	1589.1	1627.6	1678.3	1700.0
60°	1436.8	1424.9	1464.2	1511.6	1531.2
62.5°	1270.7	1262.8	1300.7	1339.4	1346.4
65°	1103.5	1098.0	1133.9	1155.4	1159.9
67.5°	934.4	933.9	967.1	979.1	979.0
70°	769.4	767.2	798.4	802.6	794.3
72.5°	609.2	611.9	632.9	629.6	616.0
75°	462.8	465.7	481.4	465.2	452.4
77.5°	326.8	329.5	337.4	319.5	311.8
80°	209.3	215.6	213.4	205.7	200.3
82.5°	117.1	124.0	121.9	131.9	136.4
85°	54.1	58.4	67.9	78.6	83.0
87.5°	18.5	22.2	27.9	29.8	27.9
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	19.28	20.86	19.64	21.18	21.49	19.67	21.25	20.03	21.56	21.88
	3H	20.73	22.15	21.11	22.48	22.84	21.08	22.51	21.46	22.84	23.20
	4H	21.15	22.48	21.55	22.83	23.21	21.46	22.79	21.86	23.14	23.52
	6H	21.35	22.59	21.76	22.95	23.34	21.62	22.85	22.03	23.22	23.61
	8H	21.37	22.55	21.80	22.94	23.34	21.65	22.82	22.07	23.21	23.61
	12H	21.37	22.50	21.80	22.88	23.31	21.66	22.79	22.09	23.17	23.60
4H	2H	19.86	21.20	20.26	21.55	21.93	20.18	21.51	20.58	21.86	22.24
	3H	21.49	22.60	21.90	23.00	23.40	21.78	22.89	22.19	23.29	23.69
	4H	21.99	22.99	22.42	23.41	23.84	22.24	23.24	22.67	23.65	24.09
	6H	22.27	23.14	22.72	23.58	24.04	22.47	23.34	22.92	23.78	24.24
	8H	22.31	23.12	22.77	23.56	24.03	22.51	23.33	22.98	23.77	24.24
	12H	22.32	23.04	22.80	23.52	23.99	22.55	23.27	23.03	23.75	24.22
8H	4H	22.17	22.99	22.64	23.43	23.90	22.40	23.21	22.86	23.66	24.12
	6H	22.50	23.17	23.00	23.66	24.14	22.68	23.35	23.18	23.84	24.32
	8H	22.57	23.17	23.08	23.68	24.16	22.75	23.35	23.26	23.86	24.35
	12H	22.60	23.13	23.11	23.62	24.19	22.82	23.35	23.33	23.84	24.40
12H	4H	22.17	22.90	22.65	23.37	23.84	22.40	23.12	22.88	23.60	24.07
	6H	22.50	23.10	23.01	23.61	24.09	22.67	23.27	23.18	23.78	24.27
	8H	22.60	23.12	23.10	23.62	24.18	22.78	23.31	23.29	23.80	24.36