

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: P1499496

Luminaire Tested: MAE-G-4-120-3HI-HI-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499496
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-4-120-3HI-HI-35-90
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

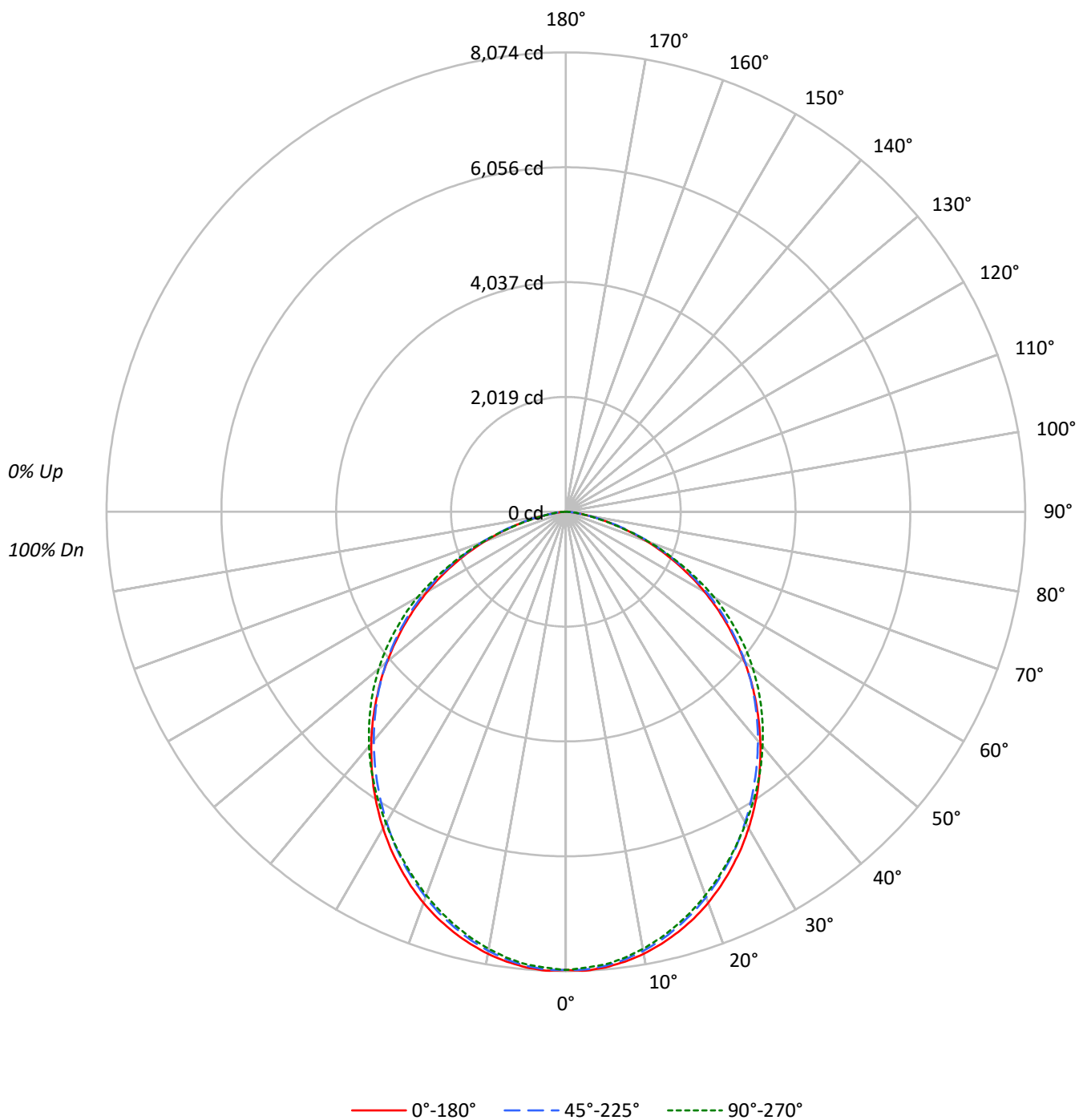
Lumens per Lamp: N/A
Luminaire Lumens: 19825.0 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 221.8
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°	10836	10836	10836
5°	10856	10821	10786
10°	10780	10709	10657
15°	10650	10535	10480
20°	10475	10324	10269
25°	10245	10075	10038
30°	9983	9793	9824
35°	9685	9505	9642
40°	9348	9225	9450
45°	8983	8939	9237
50°	8583	8615	8986
55°	8133	8239	8617
60°	7575	7758	8123
65°	6880	7105	7261
70°	5925	6170	6118
75°	4708	4894	4562
80°	3168	3199	2959
85°	1626	1996	2422

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 9237 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	758.2	3.8
10°-20°	2130.9	10.7
20°-30°	3129.9	15.8
30°-40°	3644.5	18.4
40°-50°	3653.0	18.4
50°-60°	3157.3	15.9
60°-70°	2196.4	11.1
70°-80°	984.8	5.0
80°-90°	169.9	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°	6019.1	30.4
0°-40°	9663.6	48.7
0°-60°	16473.9	83.1
0°-90°	19825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19825.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8054	8054	8054	8054	8054	
5°	8038	8003	8012	7975	7986	762
15°	7645	7596	7563	7512	7524	2154
25°	6901	6840	6786	6735	6762	3177
35°	5896	5823	5787	5814	5870	3684
45°	4721	4669	4698	4793	4854	3642
55°	3467	3430	3512	3631	3674	3095
65°	2161	2156	2232	2273	2281	2136
75°	906	914	941	905	878	973
85°	105	113	129	149	157	156
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8053.6	8053.6	8053.6	8053.6	8053.6
2.5°	8073.7	8040.3	8053.6	8024.9	8019.0
5°	8037.5	8002.9	8011.8	7974.8	7985.6
7.5°	7975.0	7938.5	7938.0	7897.9	7907.8
10°	7890.3	7847.5	7838.3	7792.7	7800.4
12.5°	7777.6	7733.4	7713.6	7661.7	7674.6
15°	7645.3	7596.5	7563.1	7512.1	7523.9
17.5°	7491.8	7438.2	7397.9	7338.5	7357.8
20°	7315.6	7258.0	7210.0	7146.7	7172.2
22.5°	7118.3	7057.8	7002.7	6946.3	6971.9
25°	6901.1	6840.1	6786.1	6734.9	6761.7
27.5°	6672.5	6604.6	6550.5	6514.2	6543.8
30°	6425.3	6355.2	6303.0	6280.9	6323.1
32.5°	6164.2	6095.0	6049.1	6051.2	6099.9
35°	5896.2	5823.2	5786.8	5813.7	5870.4
37.5°	5607.8	5546.7	5522.7	5574.1	5631.8
40°	5322.2	5258.5	5252.3	5319.8	5380.5
42.5°	5026.6	4970.6	4978.2	5064.6	5121.2
45°	4720.7	4668.9	4697.6	4792.8	4854.5
47.5°	4420.2	4366.9	4411.7	4515.7	4582.3
50°	4100.5	4057.5	4115.6	4231.9	4293.0
52.5°	3783.1	3741.9	3815.9	3938.5	3997.5
55°	3467.2	3430.0	3512.3	3631.3	3673.6
57.5°	3140.2	3119.4	3204.3	3308.7	3352.8
60°	2814.9	2797.2	2882.9	2979.2	3018.7
62.5°	2489.1	2479.4	2560.7	2638.3	2651.3
65°	2161.1	2155.9	2231.8	2272.9	2280.8
67.5°	1829.5	1833.7	1902.5	1922.9	1921.6
70°	1506.2	1506.2	1568.5	1573.1	1555.1
72.5°	1192.1	1201.2	1241.0	1230.2	1201.5
75°	905.6	913.7	941.4	904.9	877.6
77.5°	638.9	645.8	657.3	617.2	600.1
80°	408.8	421.3	412.8	393.6	381.9
82.5°	228.2	241.1	233.6	251.0	258.9
85°	105.3	112.8	129.3	148.9	156.9
87.5°	35.8	42.7	53.0	56.6	52.7
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	19.21	20.79	19.57	21.11	21.42	19.63	21.21	19.99	21.53	21.84
	3H	20.66	22.08	21.03	22.41	22.77	21.04	22.46	21.41	22.79	23.15
	4H	21.07	22.41	21.47	22.76	23.14	21.40	22.74	21.80	23.08	23.46
	6H	21.28	22.51	21.69	22.88	23.27	21.55	22.79	21.96	23.15	23.54
	8H	21.30	22.48	21.72	22.87	23.27	21.57	22.75	22.00	23.14	23.54
	12H	21.30	22.42	21.73	22.81	23.24	21.59	22.71	22.02	23.10	23.52
4H	2H	19.80	21.14	20.20	21.48	21.86	20.14	21.48	20.54	21.82	22.20
	3H	21.42	22.53	21.83	22.93	23.33	21.73	22.84	22.14	23.24	23.64
	4H	21.92	22.92	22.35	23.34	23.77	22.18	23.18	22.61	23.59	24.03
	6H	22.20	23.07	22.65	23.51	23.96	22.40	23.26	22.85	23.71	24.16
	8H	22.24	23.05	22.70	23.49	23.96	22.44	23.25	22.90	23.69	24.16
	12H	22.25	22.97	22.73	23.45	23.92	22.46	23.19	22.95	23.67	24.14
8H	4H	22.10	22.92	22.57	23.36	23.83	22.34	23.15	22.80	23.59	24.06
	6H	22.43	23.10	22.92	23.59	24.07	22.60	23.27	23.10	23.76	24.24
	8H	22.49	23.09	23.01	23.60	24.09	22.67	23.27	23.18	23.77	24.26
	12H	22.52	23.05	23.03	23.55	24.11	22.73	23.25	23.23	23.75	24.31
12H	4H	22.10	22.83	22.58	23.30	23.77	22.33	23.06	22.81	23.53	24.00
	6H	22.42	23.02	22.93	23.53	24.02	22.59	23.19	23.10	23.70	24.19
	8H	22.52	23.05	23.03	23.54	24.10	22.69	23.22	23.20	23.71	24.28