

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: P1498944

Luminaire Tested: MAE-G-4-120-1HI-LO-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1HI-LO-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

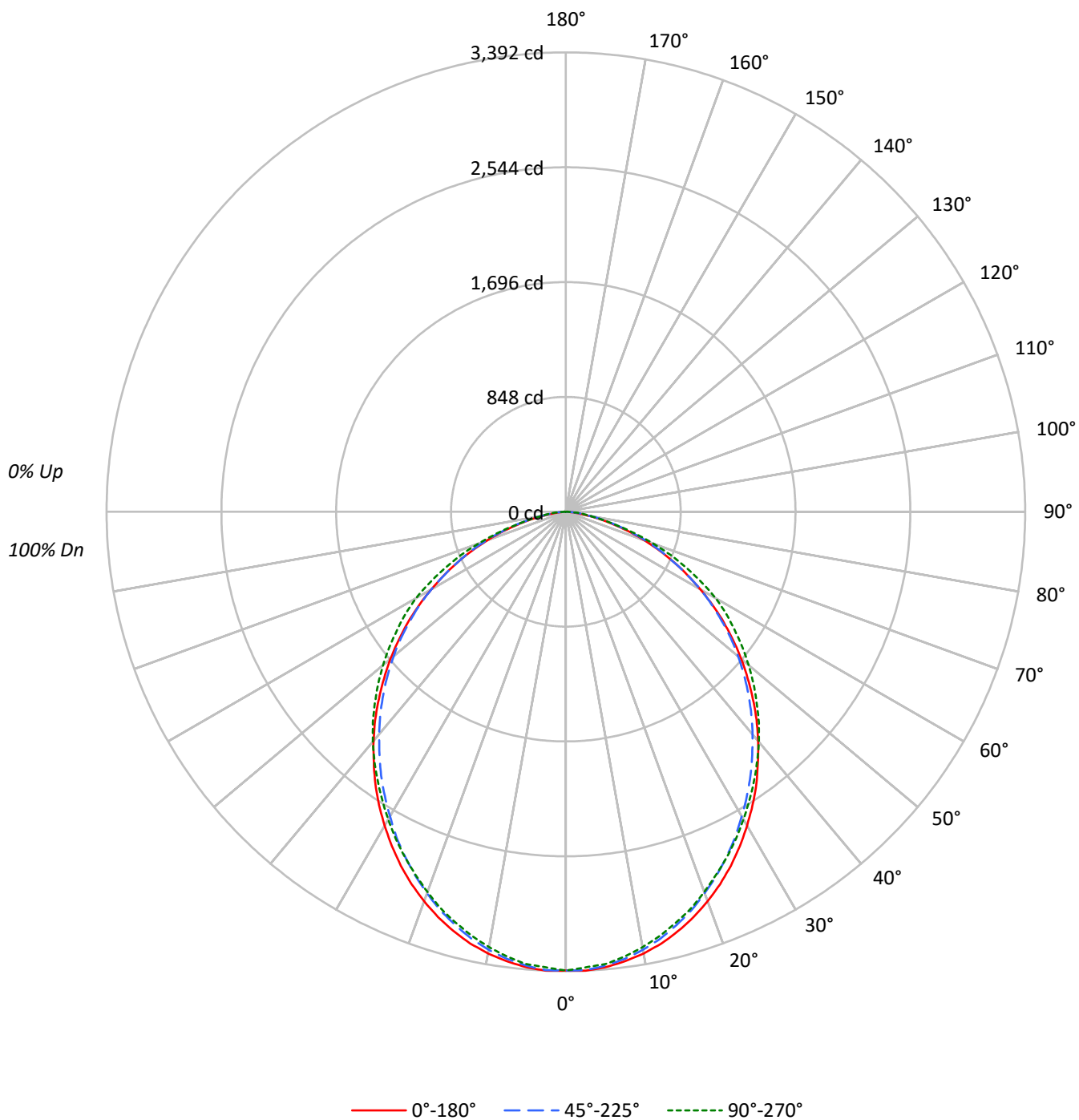
Lumens per Lamp: N/A
Luminaire Lumens: 8197.0 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 92.5
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	76	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	45	39	51	44	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4558	4558	4558
5°	4559	4543	4528
10°	4524	4487	4459
15°	4465	4400	4375
20°	4382	4292	4278
25°	4280	4172	4177
30°	4158	4035	4075
35°	4029	3906	3981
40°	3881	3767	3894
45°	3715	3628	3793
50°	3540	3478	3688
55°	3338	3297	3565
60°	3087	3088	3442
65°	2800	2802	3138
70°	2422	2482	2701
75°	1921	2044	2069
80°	1316	1482	1499
85°	729	1067	1326

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3793 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.4	3.9
10°-20°	891.3	10.9
20°-30°	1301.4	15.9
30°-40°	1505.0	18.4
40°-50°	1496.2	18.3
50°-60°	1285.3	15.7
60°-70°	899.1	11.0
70°-80°	417.2	5.1
80°-90°	83.0	1.0
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°	2511.1	30.6
0°-40°	4016.1	49.0
0°-60°	6797.6	82.9
0°-90°	8197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8197.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3388	3388	3388	3388	3388	
5°	3375	3372	3364	3345	3352	320
15°	3205	3192	3158	3133	3141	903
25°	2883	2853	2810	2798	2813	1327
35°	2453	2414	2378	2396	2424	1532
45°	1952	1921	1907	1959	1993	1506
55°	1423	1394	1406	1475	1520	1270
65°	880	858	880	954	986	871
75°	370	361	393	405	398	400
85°	47	56	69	82	86	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3387.5	3387.5	3387.5	3387.5	3387.5
2.5°	3391.6	3393.8	3387.5	3364.4	3366.8
5°	3375.2	3371.9	3363.9	3345.3	3352.2
7.5°	3347.7	3344.1	3329.8	3308.8	3313.7
10°	3311.3	3304.0	3283.9	3258.3	3263.7
12.5°	3264.4	3255.7	3228.0	3200.9	3207.4
15°	3205.2	3192.2	3158.5	3132.8	3140.6
17.5°	3137.2	3124.3	3084.6	3057.4	3071.2
20°	3060.1	3041.7	2997.2	2973.9	2987.6
22.5°	2976.0	2952.0	2907.0	2887.0	2900.5
25°	2883.3	2853.3	2810.1	2797.9	2813.4
27.5°	2782.7	2750.6	2708.8	2700.2	2721.0
30°	2676.0	2642.1	2596.9	2600.4	2623.1
32.5°	2567.1	2531.8	2488.5	2501.4	2524.1
35°	2452.8	2413.7	2377.9	2396.2	2423.7
37.5°	2330.2	2293.9	2259.8	2294.6	2321.2
40°	2209.6	2171.7	2144.5	2186.7	2216.9
42.5°	2084.2	2048.9	2027.3	2074.3	2109.1
45°	1952.5	1921.4	1906.6	1959.3	1993.2
47.5°	1821.5	1789.7	1784.8	1841.5	1879.5
50°	1691.3	1662.2	1661.4	1723.6	1761.7
52.5°	1556.0	1527.7	1536.3	1599.9	1644.1
55°	1422.9	1394.0	1405.5	1475.3	1519.9
57.5°	1286.5	1266.5	1278.3	1352.6	1405.4
60°	1147.2	1126.7	1147.7	1232.1	1279.0
62.5°	1012.5	991.5	1011.8	1102.3	1131.6
65°	879.5	857.9	880.1	953.6	985.6
67.5°	749.6	728.3	758.8	822.9	842.1
70°	615.6	597.3	631.0	681.0	686.5
72.5°	491.1	474.6	512.1	540.2	536.8
75°	369.6	361.0	393.2	405.1	397.9
77.5°	263.8	259.2	284.7	287.4	280.8
80°	169.9	174.0	191.3	191.1	193.5
82.5°	98.5	105.6	118.0	133.5	136.0
85°	47.2	55.7	69.1	81.5	85.9
87.5°	16.5	22.2	28.3	31.2	30.4
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	16.03	17.61	16.39	17.92	18.24	16.52	18.10	16.89	18.42	18.73
	3H	17.45	18.87	17.83	19.20	19.56	18.07	19.49	18.45	19.82	20.18
	4H	17.87	19.20	18.26	19.55	19.93	18.49	19.83	18.89	20.18	20.55
	6H	18.07	19.31	18.48	19.67	20.07	18.70	19.93	19.11	20.30	20.69
	8H	18.10	19.28	18.53	19.67	20.07	18.75	19.93	19.17	20.32	20.72
	12H	18.11	19.23	18.54	19.61	20.04	18.78	19.91	19.21	20.29	20.72
4H	2H	16.57	17.91	16.97	18.26	18.63	16.98	18.32	17.38	18.66	19.04
	3H	18.18	19.29	18.59	19.69	20.09	18.73	19.84	19.14	20.24	20.64
	4H	18.67	19.68	19.11	20.09	20.53	19.25	20.25	19.68	20.66	21.10
	6H	18.96	19.83	19.41	20.27	20.73	19.54	20.41	19.99	20.85	21.31
	8H	19.01	19.82	19.47	20.26	20.73	19.61	20.43	20.08	20.87	21.34
	12H	19.03	19.75	19.51	20.23	20.70	19.68	20.40	20.16	20.88	21.35
8H	4H	18.88	19.70	19.35	20.14	20.61	19.40	20.22	19.87	20.66	21.13
	6H	19.23	19.90	19.72	20.39	20.87	19.76	20.43	20.25	20.92	21.39
	8H	19.31	19.91	19.82	20.41	20.90	19.87	20.48	20.39	20.98	21.47
	12H	19.35	19.88	19.86	20.37	20.94	19.98	20.51	20.49	21.00	21.57
12H	4H	18.89	19.62	19.37	20.09	20.56	19.40	20.13	19.88	20.60	21.07
	6H	19.24	19.84	19.75	20.35	20.83	19.75	20.36	20.27	20.87	21.35
	8H	19.35	19.88	19.86	20.37	20.94	19.91	20.44	20.42	20.93	21.50