

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: P1498320

Luminaire Tested: MAE-G-2-120-2HI-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2HI-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

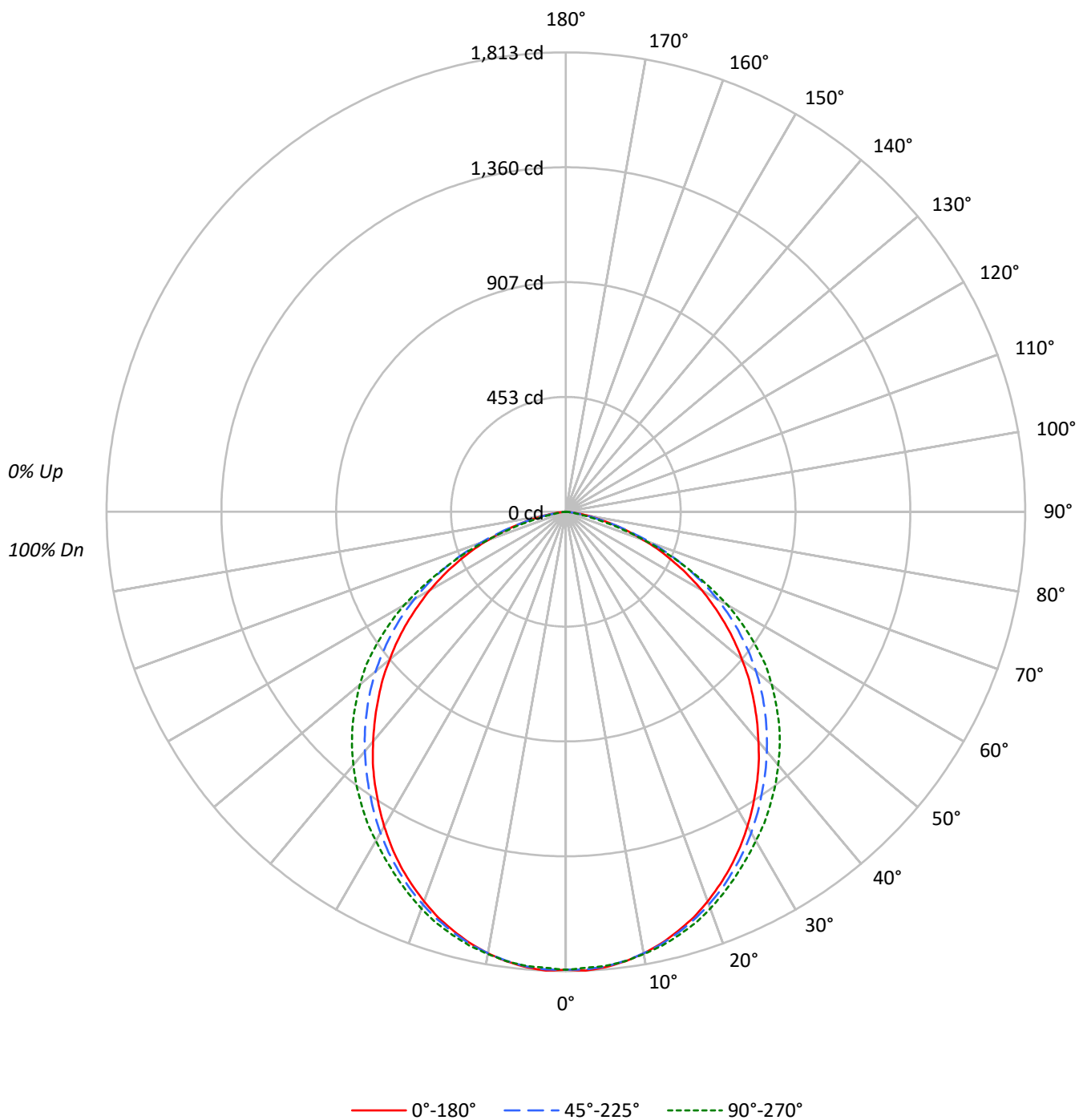
Lumens per Lamp: N/A
Luminaire Lumens: 4563.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 45.2
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	102	98	107	103	100	97	99	96	93	95	93	91	92	90	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	64	64	62
4	84	73	64	58	82	71	64	58	69	62	57	67	61	56	65	59	55	55	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4864	4864	4864
5°	4873	4865	4860
10°	4835	4835	4842
15°	4771	4788	4817
20°	4686	4725	4774
25°	4582	4642	4711
30°	4456	4547	4662
35°	4315	4436	4626
40°	4155	4336	4582
45°	3985	4228	4532
50°	3801	4101	4440
55°	3591	3937	4274
60°	3337	3716	3968
65°	3010	3377	3396
70°	2570	2810	2627
75°	2017	2036	1641
80°	1313	1048	629
85°	608	398	321

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4532 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.7	3.7
10°-20°	484.2	10.6
20°-30°	719.3	15.8
30°-40°	847.3	18.6
40°-50°	858.4	18.8
50°-60°	747.1	16.4
60°-70°	509.1	11.2
70°-80°	203.5	4.5
80°-90°	23.3	0.5
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°	1374.3	30.1
0°-40°	2221.6	48.7
0°-60°	3827.1	83.9
0°-90°	4563.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4563.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1808	1808	1808	1808	1808	
5°	1804	1794	1801	1798	1799	171
15°	1712	1705	1719	1725	1729	483
25°	1543	1544	1563	1576	1587	710
35°	1314	1320	1350	1386	1408	821
45°	1047	1060	1111	1163	1191	808
55°	765	782	839	892	911	684
65°	473	495	530	531	533	468
75°	194	206	196	168	158	209
85°	20	18	13	12	10	31
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1807.6	1807.6	1807.6	1807.6	1807.6
2.5°	1812.6	1801.0	1807.6	1806.4	1801.5
5°	1804.0	1793.5	1801.0	1798.5	1799.1
7.5°	1789.9	1780.1	1788.1	1787.4	1789.3
10°	1769.6	1759.9	1769.6	1770.2	1772.1
12.5°	1744.4	1735.9	1747.5	1750.0	1754.3
15°	1712.5	1705.2	1718.6	1724.9	1729.1
17.5°	1678.2	1673.3	1686.7	1694.8	1701.5
20°	1636.4	1634.0	1650.0	1657.9	1667.1
22.5°	1591.0	1589.7	1608.9	1618.6	1627.9
25°	1543.1	1543.8	1563.4	1576.3	1586.8
27.5°	1490.3	1491.5	1515.5	1530.9	1543.8
30°	1433.9	1437.0	1463.3	1484.2	1500.2
32.5°	1374.3	1379.9	1408.1	1437.0	1457.2
35°	1313.5	1319.8	1350.4	1386.0	1408.1
37.5°	1251.0	1257.8	1293.3	1335.1	1358.4
40°	1182.9	1193.2	1234.4	1280.4	1304.3
42.5°	1115.9	1127.5	1173.7	1224.0	1249.8
45°	1047.2	1060.1	1111.0	1163.2	1190.8
47.5°	980.9	991.9	1046.5	1101.2	1125.8
50°	907.9	922.5	979.7	1034.3	1060.6
52.5°	837.9	852.0	910.3	966.1	993.2
55°	765.4	782.0	839.1	891.9	910.9
57.5°	692.4	711.4	766.7	810.2	826.8
60°	620.0	639.0	690.5	724.9	737.2
62.5°	546.9	566.5	612.0	632.9	635.3
65°	472.7	494.8	530.3	531.0	533.4
67.5°	402.1	420.4	446.2	438.9	435.2
70°	326.6	346.8	357.2	342.6	333.9
72.5°	259.7	274.3	272.6	251.0	240.7
75°	194.0	205.7	195.8	168.2	157.8
77.5°	134.4	144.2	124.5	98.8	88.5
80°	84.7	89.0	67.6	47.9	40.6
82.5°	45.4	44.8	28.9	23.9	22.1
85°	19.7	17.8	12.9	11.7	10.4
87.5°	6.8	6.1	4.9	4.3	3.7
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	16.41	17.99	16.78	18.31	18.62	17.37	18.95	17.74	19.27	19.58
	3H	17.83	19.25	18.21	19.58	19.94	18.56	19.98	18.94	20.31	20.67
	4H	18.23	19.56	18.63	19.91	20.28	18.78	20.11	19.18	20.46	20.84
	6H	18.40	19.63	18.81	20.00	20.39	18.80	20.03	19.21	20.39	20.78
	8H	18.41	19.59	18.84	19.98	20.38	18.77	19.94	19.20	20.33	20.73
	12H	18.40	19.53	18.83	19.91	20.34	18.75	19.87	19.18	20.25	20.68
4H	2H	17.07	18.41	17.47	18.75	19.13	17.85	19.18	18.25	19.53	19.90
	3H	18.65	19.76	19.06	20.15	20.55	19.20	20.30	19.61	20.70	21.10
	4H	19.13	20.12	19.56	20.53	20.97	19.47	20.46	19.90	20.87	21.31
	6H	19.37	20.23	19.82	20.67	21.13	19.52	20.38	19.97	20.82	21.28
	8H	19.39	20.19	19.85	20.64	21.10	19.49	20.30	19.95	20.74	21.21
	12H	19.39	20.11	19.87	20.58	21.05	19.47	20.19	19.95	20.67	21.14
8H	4H	19.26	20.07	19.73	20.51	20.98	19.58	20.38	20.04	20.83	21.29
	6H	19.54	20.20	20.03	20.69	21.17	19.64	20.30	20.13	20.79	21.27
	8H	19.58	20.17	20.09	20.68	21.16	19.62	20.21	20.13	20.72	21.20
	12H	19.59	20.11	20.10	20.60	21.17	19.60	20.12	20.11	20.61	21.18
12H	4H	19.24	19.96	19.73	20.44	20.91	19.57	20.29	20.05	20.76	21.23
	6H	19.51	20.10	20.02	20.61	21.10	19.62	20.21	20.13	20.72	21.20
	8H	19.57	20.09	20.08	20.58	21.15	19.62	20.14	20.12	20.63	21.19