

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: P1499445

Luminaire Tested: MAE-G-4-120-2STD-STD-30

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499445
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-4-120-2STD-STD-30
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

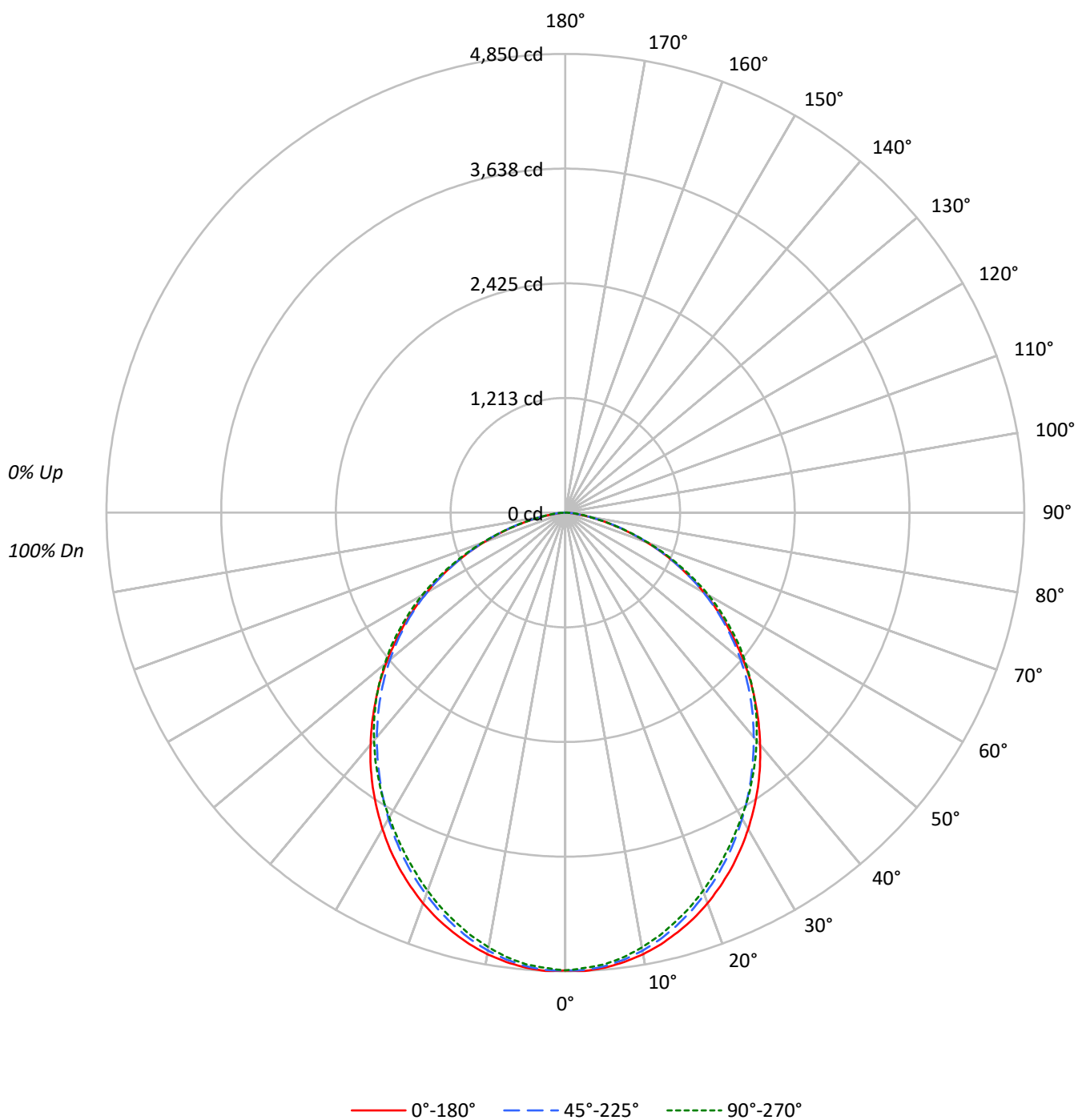
Lumens per Lamp: N/A
Luminaire Lumens: 11782.0 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.8
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	45	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6513	6513	6513
5°	6522	6501	6472
10°	6477	6424	6375
15°	6397	6303	6242
20°	6293	6154	6093
25°	6160	5989	5928
30°	6003	5808	5781
35°	5827	5620	5654
40°	5624	5443	5525
45°	5407	5261	5389
50°	5170	5065	5217
55°	4896	4831	5002
60°	4568	4541	4715
65°	4154	4155	4273
70°	3587	3628	3680
75°	2858	2940	2905
80°	1936	2042	2048
85°	994	1365	1741

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5407 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.2	3.9
10°-20°	1274.8	10.8
20°-30°	1864.0	15.8
30°-40°	2161.9	18.3
40°-50°	2158.1	18.3
50°-60°	1859.0	15.8
60°-70°	1297.3	11.0
70°-80°	599.3	5.1
80°-90°	112.3	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°	3594.1	30.5
0°-40°	5755.9	48.9
0°-60°	9773.1	82.9
0°-90°	11782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11782.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4840	4840	4840	4840	4840	
5°	4829	4812	4813	4786	4792	458
15°	4592	4560	4525	4478	4481	1294
25°	4150	4102	4034	3987	3993	1910
35°	3547	3487	3421	3420	3442	2217
45°	2842	2788	2765	2803	2832	2192
55°	2087	2046	2060	2110	2132	1864
65°	1305	1285	1305	1328	1342	1291
75°	550	544	566	561	559	592
85°	64	72	88	106	113	96
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4840.4	4840.4	4840.4	4840.4	4840.4
2.5°	4850.2	4834.4	4840.4	4819.2	4817.9
5°	4829.1	4811.6	4813.4	4785.6	4792.0
7.5°	4791.9	4771.7	4766.3	4734.8	4740.8
10°	4740.4	4715.5	4702.0	4663.4	4666.4
12.5°	4674.4	4646.2	4622.6	4578.1	4583.2
15°	4592.3	4560.5	4525.2	4478.5	4481.4
17.5°	4501.9	4467.3	4417.5	4368.0	4376.1
20°	4394.8	4356.9	4298.3	4246.8	4255.2
22.5°	4276.3	4233.2	4172.1	4121.0	4125.6
25°	4149.5	4102.0	4033.8	3987.4	3993.2
27.5°	4012.0	3959.1	3889.4	3847.9	3857.6
30°	3864.1	3808.6	3738.2	3707.5	3721.0
32.5°	3708.4	3651.6	3583.1	3567.0	3587.4
35°	3547.4	3486.8	3421.4	3419.6	3442.1
37.5°	3379.7	3320.1	3261.4	3273.3	3296.9
40°	3202.2	3146.3	3098.7	3120.0	3145.4
42.5°	3023.7	2969.9	2933.8	2964.8	2992.3
45°	2841.5	2788.1	2765.0	2802.8	2832.0
47.5°	2660.5	2606.7	2595.2	2638.7	2665.1
50°	2469.8	2421.8	2419.6	2466.7	2492.4
52.5°	2277.4	2232.9	2241.3	2291.9	2323.3
55°	2087.3	2046.1	2059.6	2110.0	2132.2
57.5°	1892.0	1859.2	1876.9	1921.8	1943.8
60°	1697.5	1667.4	1687.6	1730.6	1752.1
62.5°	1500.9	1474.8	1498.0	1534.0	1548.0
65°	1304.7	1285.0	1305.2	1328.3	1342.3
67.5°	1111.4	1092.9	1114.9	1137.2	1142.2
70°	911.8	900.2	922.2	935.5	935.4
72.5°	728.0	716.6	737.7	742.6	738.9
75°	549.8	543.8	565.6	560.8	558.8
77.5°	387.9	390.7	402.1	398.6	397.8
80°	249.8	258.5	263.6	266.1	264.3
82.5°	140.4	148.4	156.1	174.6	181.8
85°	64.4	72.3	88.4	105.6	112.8
87.5°	21.7	28.0	37.1	39.9	37.9
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	17.44	19.02	17.80	19.33	19.65	17.66	19.24	18.03	19.56	19.87
	3H	18.90	20.33	19.28	20.65	21.01	19.13	20.55	19.50	20.88	21.24
	4H	19.33	20.66	19.73	21.01	21.39	19.54	20.88	19.94	21.23	21.61
	6H	19.53	20.77	19.95	21.14	21.53	19.75	20.99	20.16	21.35	21.74
	8H	19.56	20.74	19.99	21.13	21.53	19.80	20.97	20.22	21.36	21.76
	12H	19.56	20.69	19.99	21.07	21.50	19.82	20.95	20.25	21.33	21.76
4H	2H	18.00	19.33	18.39	19.68	20.06	18.18	19.52	18.58	19.86	20.24
	3H	19.64	20.75	20.05	21.15	21.55	19.83	20.94	20.24	21.34	21.74
	4H	20.15	21.15	20.58	21.56	22.00	20.34	21.34	20.77	21.75	22.19
	6H	20.43	21.30	20.89	21.75	22.20	20.62	21.50	21.08	21.94	22.39
	8H	20.48	21.29	20.94	21.73	22.20	20.69	21.51	21.15	21.95	22.42
	12H	20.49	21.22	20.97	21.69	22.16	20.74	21.47	21.22	21.95	22.42
8H	4H	20.34	21.15	20.80	21.59	22.06	20.51	21.32	20.97	21.76	22.23
	6H	20.68	21.35	21.17	21.84	22.32	20.85	21.53	21.35	22.01	22.49
	8H	20.75	21.35	21.26	21.86	22.34	20.96	21.56	21.47	22.07	22.55
	12H	20.78	21.31	21.29	21.81	22.37	21.05	21.58	21.56	22.07	22.63
12H	4H	20.34	21.06	20.82	21.54	22.01	20.51	21.23	20.99	21.71	22.18
	6H	20.68	21.28	21.19	21.79	22.28	20.85	21.45	21.36	21.96	22.45
	8H	20.78	21.31	21.29	21.80	22.37	20.99	21.52	21.50	22.01	22.57