

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: P1499690

Luminaire Tested: MAE-G-4-120-3STD-HI-35-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499690
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-4-120-3STD-HI-35-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

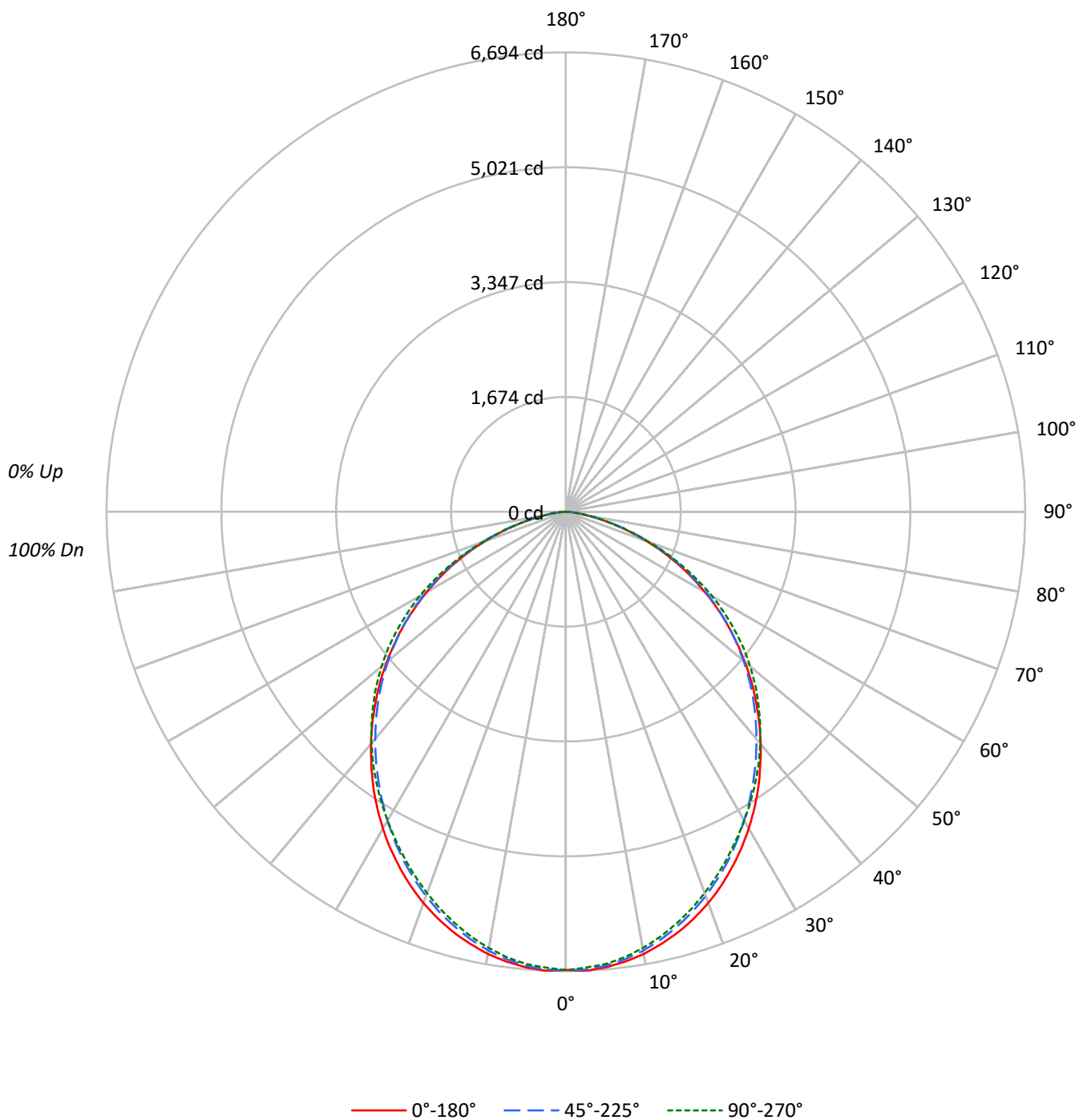
Lumens per Lamp: N/A
Luminaire Lumens: 16367.0 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 191.3
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	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	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	88	88	86
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	61
4	84	73	64	58	82	71	63	57	69	62	57	66	61	56	64	59	55	55	55	53
5	78	65	56	50	75	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	42	42	42	40
7	67	53	45	39	65	53	44	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	29	53	41	34	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8985	8985	8985
5°	9000	8970	8937
10°	8938	8872	8819
15°	8831	8718	8657
20°	8687	8532	8467
25°	8498	8317	8263
30°	8283	8075	8072
35°	8037	7830	7910
40°	7759	7591	7740
45°	7458	7348	7553
50°	7129	7075	7336
55°	6757	6762	7032
60°	6296	6363	6640
65°	5723	5832	5976
70°	4935	5091	5094
75°	3927	4087	3893
80°	2653	2749	2641
85°	1374	1783	2211

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7553 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.4	3.8
10°-20°	1763.4	10.8
20°-30°	2585.2	15.8
30°-40°	3004.8	18.4
40°-50°	3006.6	18.4
50°-60°	2595.3	15.9
60°-70°	1810.2	11.1
70°-80°	824.5	5.0
80°-90°	148.5	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°	4977.0	30.4
0°-40°	7981.9	48.8
0°-60°	13583.8	83.0
0°-90°	16367.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16367.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6678	6678	6678	6678	6678	
5°	6664	6637	6642	6608	6617	632
15°	6340	6298	6259	6206	6215	1787
25°	5724	5666	5602	5547	5566	2636
35°	4893	4821	4767	4774	4816	3057
45°	3920	3863	3861	3925	3969	3024
55°	2880	2836	2882	2967	2998	2571
65°	1798	1781	1832	1868	1877	1777
75°	755	756	786	767	749	811
85°	89	97	116	135	143	131
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6677.6	6677.6	6677.6	6677.6	6677.6
2.5°	6693.6	6668.3	6677.6	6651.0	6648.0
5°	6663.9	6637.0	6641.6	6607.6	6617.1
7.5°	6612.3	6582.9	6578.5	6540.5	6548.8
10°	6542.3	6507.0	6493.4	6449.1	6455.1
12.5°	6449.3	6411.7	6386.8	6335.7	6345.4
15°	6339.6	6297.5	6258.8	6206.5	6214.7
17.5°	6212.7	6165.2	6118.0	6058.0	6072.2
20°	6067.3	6015.0	5958.8	5895.4	5913.7
22.5°	5904.1	5848.1	5784.7	5725.9	5743.4
25°	5724.5	5666.4	5602.1	5547.3	5565.6
27.5°	5535.6	5470.6	5404.3	5361.3	5381.7
30°	5331.1	5263.1	5197.4	5165.8	5195.8
32.5°	5115.2	5046.7	4985.6	4973.3	5008.3
35°	4893.1	4820.7	4766.8	4774.4	4815.5
37.5°	4654.6	4591.4	4546.8	4574.1	4615.7
40°	4417.8	4352.2	4321.8	4362.4	4406.5
42.5°	4172.8	4113.1	4094.3	4150.1	4190.8
45°	3919.6	3862.7	3861.4	3924.8	3969.4
47.5°	3669.9	3612.6	3625.0	3695.6	3744.3
50°	3405.6	3356.2	3380.1	3461.2	3504.7
52.5°	3141.6	3094.6	3132.8	3219.1	3262.0
55°	2880.3	2836.1	2882.4	2966.9	2997.8
57.5°	2609.2	2578.9	2628.8	2703.9	2737.1
60°	2339.5	2312.2	2364.5	2436.4	2467.4
62.5°	2069.2	2048.6	2100.6	2161.3	2173.6
65°	1797.7	1781.2	1831.8	1868.5	1877.0
67.5°	1522.7	1515.1	1564.1	1587.6	1589.0
70°	1254.5	1244.6	1294.1	1305.8	1295.0
72.5°	993.9	993.1	1029.2	1029.8	1010.5
75°	755.4	756.2	786.1	766.7	748.9
77.5°	533.8	536.2	554.8	532.4	522.6
80°	342.4	352.5	354.8	347.6	340.8
82.5°	192.1	204.1	205.6	225.1	233.5
85°	89.0	97.3	115.5	135.0	143.2
87.5°	30.2	37.1	47.7	51.3	48.0
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	18.56	20.14	18.92	20.46	20.77	18.89	20.48	19.26	20.79	21.10
	3H	20.01	21.44	20.39	21.76	22.12	20.33	21.76	20.71	22.08	22.44
	4H	20.43	21.77	20.83	22.12	22.50	20.72	22.06	21.12	22.41	22.78
	6H	20.64	21.87	21.05	22.24	22.63	20.90	22.13	21.31	22.50	22.89
	8H	20.66	21.84	21.09	22.23	22.63	20.93	22.11	21.36	22.50	22.90
	12H	20.66	21.79	21.09	22.17	22.60	20.95	22.08	21.38	22.46	22.89
4H	2H	19.14	20.47	19.54	20.82	21.20	19.41	20.74	19.80	21.09	21.47
	3H	20.76	21.88	21.17	22.28	22.68	21.03	22.14	21.44	22.54	22.94
	4H	21.27	22.27	21.70	22.69	23.12	21.51	22.51	21.94	22.92	23.36
	6H	21.55	22.42	22.01	22.86	23.32	21.76	22.63	22.22	23.07	23.53
	8H	21.59	22.41	22.05	22.85	23.31	21.81	22.63	22.28	23.07	23.54
	12H	21.60	22.33	22.09	22.81	23.28	21.85	22.58	22.33	23.06	23.53
8H	4H	21.46	22.27	21.92	22.72	23.18	21.68	22.49	22.14	22.93	23.40
	6H	21.79	22.46	22.29	22.95	23.43	21.98	22.65	22.47	23.14	23.62
	8H	21.86	22.46	22.37	22.97	23.46	22.06	22.66	22.57	23.17	23.66
	12H	21.89	22.42	22.40	22.92	23.48	22.14	22.67	22.65	23.16	23.72
12H	4H	21.46	22.18	21.94	22.66	23.13	21.67	22.40	22.15	22.88	23.35
	6H	21.79	22.39	22.30	22.90	23.39	21.97	22.57	22.48	23.08	23.57
	8H	21.89	22.42	22.40	22.91	23.47	22.09	22.62	22.60	23.11	23.68