

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: P1499543

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499543
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-STD-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

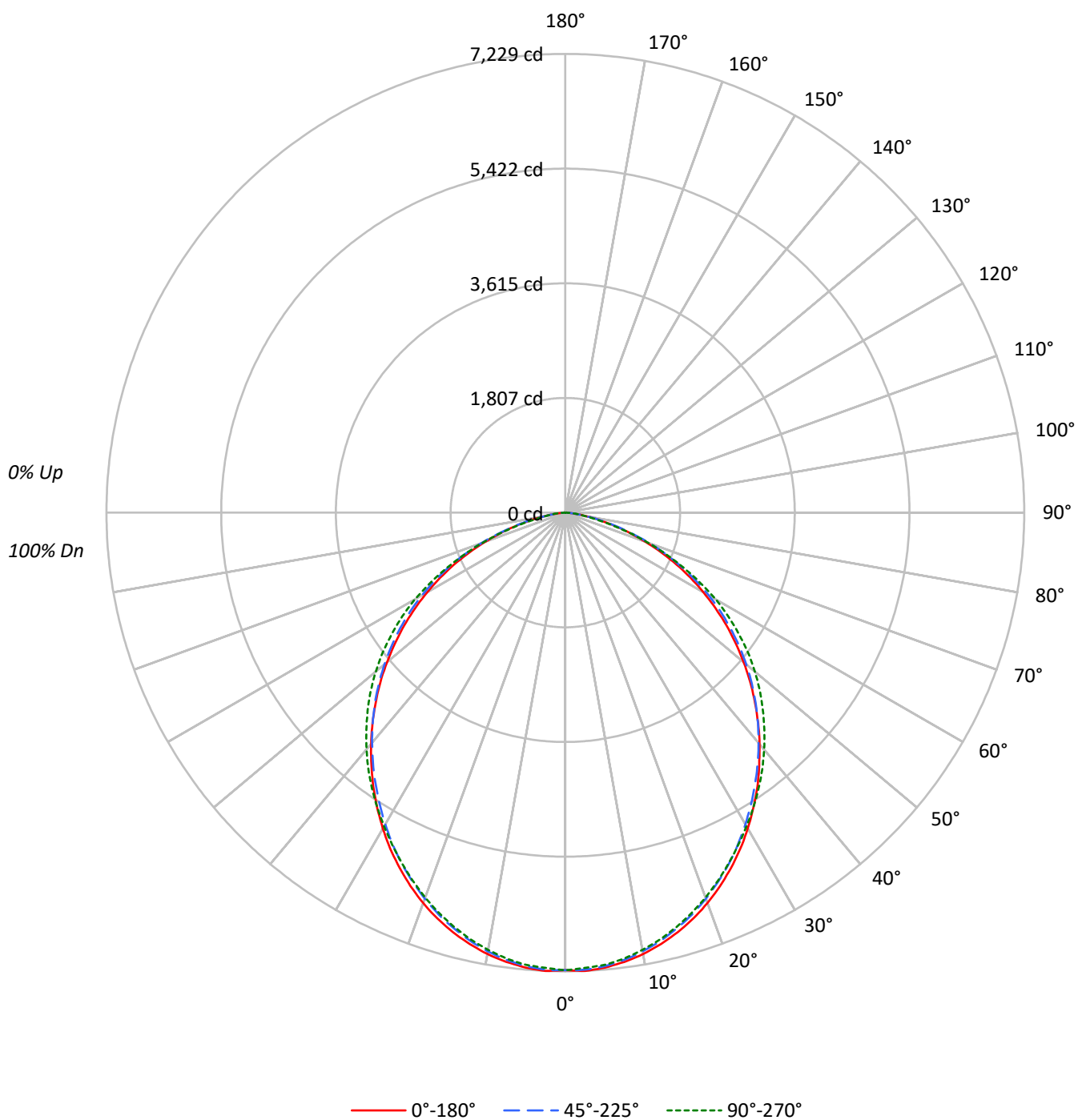
Lumens per Lamp: N/A
Luminaire Lumens: 17821.0 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 201.4
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	93	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°	9702	9702	9702
5°	9720	9690	9662
10°	9652	9596	9559
15°	9534	9450	9417
20°	9376	9271	9242
25°	9169	9057	9048
30°	8932	8813	8869
35°	8664	8562	8719
40°	8361	8318	8558
45°	8032	8067	8377
50°	7673	7781	8161
55°	7269	7447	7829
60°	6767	7015	7368
65°	6142	6422	6546
70°	5283	5550	5455
75°	4191	4353	3975
80°	2809	2767	2463
85°	1430	1661	1968

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8377 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.2	3.8
10°-20°	1911.4	10.7
20°-30°	2812.3	15.8
30°-40°	3280.0	18.4
40°-50°	3293.0	18.5
50°-60°	2849.4	16.0
60°-70°	1977.5	11.1
70°-80°	873.7	4.9
80°-90°	144.5	0.8
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°	5402.8	30.3
0°-40°	8682.9	48.7
0°-60°	14825.3	83.2
0°-90°	17821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17821.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7211	7211	7211	7211	7211	
5°	7197	7164	7175	7145	7154	683
15°	6844	6803	6784	6748	6760	1929
25°	6176	6129	6100	6067	6095	2844
35°	5275	5221	5212	5251	5308	3295
45°	4221	4189	4240	4340	4402	3257
55°	3099	3079	3175	3295	3337	2766
65°	1929	1937	2017	2051	2056	1907
75°	806	820	837	794	765	866
85°	93	97	108	122	128	138
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7210.6	7210.6	7210.6	7210.6	7210.6
2.5°	7229.4	7197.0	7210.6	7187.7	7180.7
5°	7196.6	7164.0	7174.6	7145.0	7153.9
7.5°	7140.6	7106.9	7110.5	7079.3	7088.1
10°	7064.4	7025.8	7023.7	6989.2	6996.5
12.5°	6963.2	6924.4	6915.2	6876.8	6889.5
15°	6844.4	6802.6	6783.8	6748.1	6760.1
17.5°	6706.6	6661.8	6639.6	6597.2	6616.2
20°	6548.4	6501.3	6474.7	6429.1	6454.7
22.5°	6371.3	6323.2	6291.4	6253.0	6279.5
25°	6176.2	6129.3	6100.5	6066.9	6094.9
27.5°	5971.1	5919.0	5891.9	5872.4	5902.9
30°	5749.3	5696.3	5672.2	5665.6	5708.4
32.5°	5514.8	5464.0	5446.0	5462.1	5511.0
35°	5274.6	5221.3	5212.5	5251.3	5308.0
37.5°	5016.0	4974.0	4977.2	5038.3	5096.3
40°	4760.1	4716.0	4735.8	4811.6	4872.3
42.5°	4495.5	4458.6	4490.6	4583.9	4640.7
45°	4221.2	4188.7	4239.6	4340.3	4402.3
47.5°	3952.7	3918.2	3983.0	4091.7	4157.9
50°	3665.7	3640.9	3717.2	3836.8	3898.6
52.5°	3382.3	3358.2	3447.8	3572.9	3631.5
55°	3098.9	3078.8	3174.6	3295.3	3337.3
57.5°	2806.1	2800.5	2897.2	3001.8	3044.8
60°	2514.7	2511.6	2607.0	2701.2	2738.2
62.5°	2223.3	2227.0	2315.4	2388.6	2398.6
65°	1929.2	1936.6	2017.0	2051.1	2056.2
67.5°	1632.3	1647.0	1716.6	1728.5	1724.8
70°	1343.0	1352.9	1410.8	1406.9	1386.6
72.5°	1061.8	1078.4	1110.8	1091.6	1061.5
75°	806.1	819.6	837.3	793.8	764.6
77.5°	568.0	577.3	578.6	532.0	512.3
80°	362.5	374.0	357.1	331.1	317.9
82.5°	201.6	211.6	197.2	207.6	212.8
85°	92.6	97.3	107.6	121.9	127.5
87.5°	31.6	36.4	43.7	46.3	42.8
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	18.83	20.41	19.19	20.72	21.04	19.32	20.91	19.69	21.22	21.54
	3H	20.27	21.69	20.64	22.02	22.38	20.70	22.12	21.08	22.45	22.81
	4H	20.68	22.02	21.08	22.37	22.74	21.04	22.38	21.44	22.73	23.10
	6H	20.88	22.11	21.29	22.48	22.87	21.17	22.41	21.58	22.77	23.16
	8H	20.90	22.08	21.33	22.47	22.87	21.19	22.36	21.61	22.75	23.15
	12H	20.90	22.03	21.33	22.41	22.84	21.19	22.32	21.62	22.70	23.13
4H	2H	19.43	20.76	19.82	21.11	21.49	19.83	21.17	20.23	21.51	21.89
	3H	21.04	22.15	21.45	22.55	22.95	21.39	22.50	21.80	22.90	23.30
	4H	21.54	22.54	21.97	22.95	23.39	21.81	22.81	22.24	23.22	23.66
	6H	21.81	22.67	22.26	23.12	23.57	22.00	22.87	22.45	23.31	23.77
	8H	21.84	22.65	22.31	23.10	23.56	22.03	22.84	22.49	23.28	23.75
	12H	21.85	22.58	22.33	23.05	23.53	22.05	22.77	22.53	23.25	23.72
8H	4H	21.71	22.53	22.18	22.97	23.43	21.96	22.77	22.42	23.22	23.68
	6H	22.03	22.70	22.53	23.19	23.67	22.19	22.86	22.69	23.35	23.83
	8H	22.09	22.69	22.61	23.20	23.69	22.24	22.84	22.76	23.35	23.84
	12H	22.12	22.65	22.63	23.14	23.70	22.29	22.82	22.80	23.31	23.87
12H	4H	21.71	22.43	22.19	22.91	23.38	21.96	22.68	22.44	23.16	23.63
	6H	22.02	22.62	22.53	23.13	23.62	22.18	22.78	22.69	23.29	23.78
	8H	22.11	22.64	22.62	23.13	23.70	22.26	22.79	22.77	23.28	23.85