

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: P1499720

Luminaire Tested: MAE-G-4-120-3STD-LO-40-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499720
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-LO-40-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

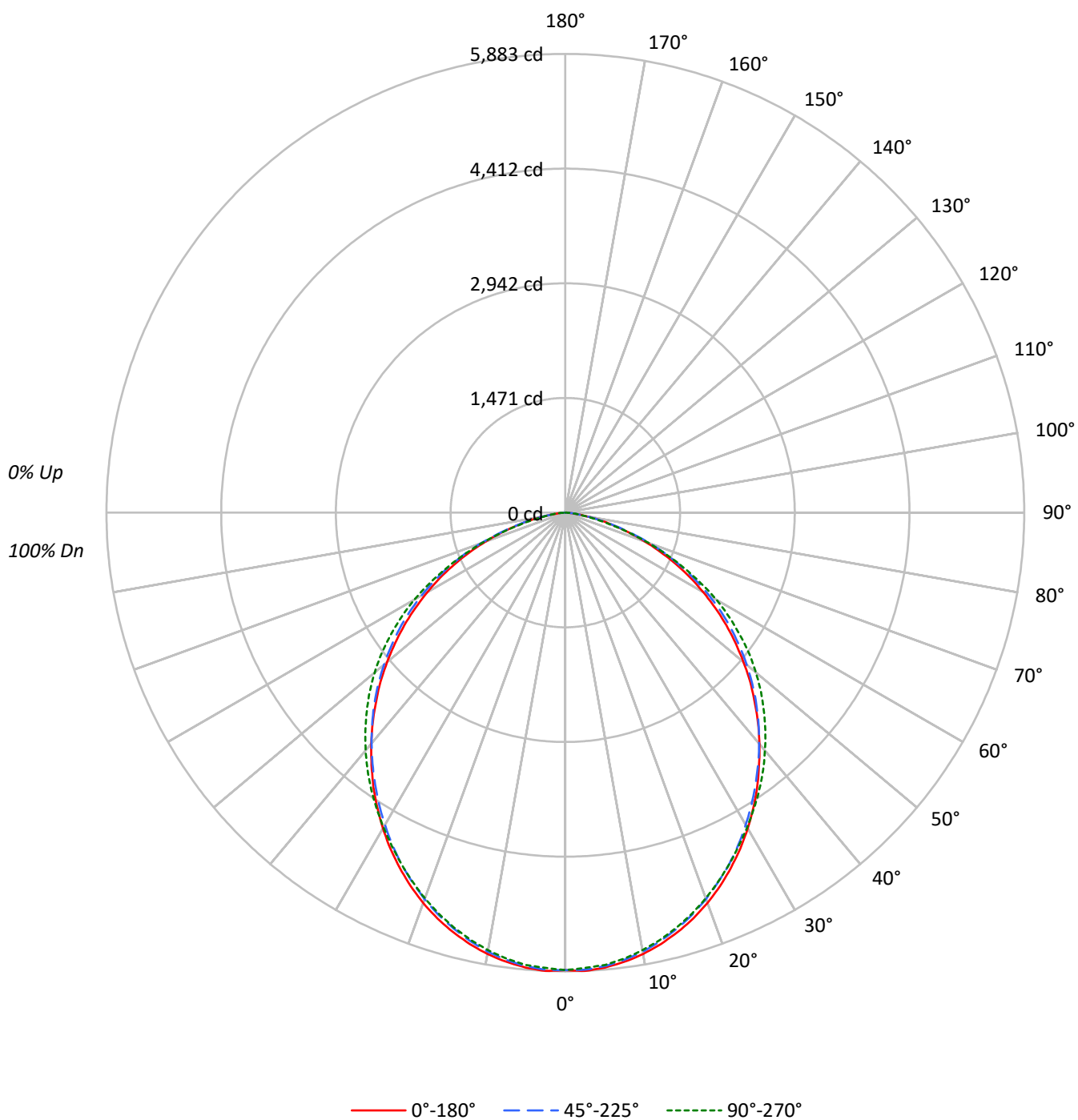
Lumens per Lamp: N/A
Luminaire Lumens: 14524.0 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 150.6
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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86		
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	40		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7894	7894	7894
5°	7909	7886	7864
10°	7853	7811	7784
15°	7757	7695	7673
20°	7629	7553	7536
25°	7460	7381	7382
30°	7266	7185	7240
35°	7047	6984	7122
40°	6800	6787	6995
45°	6532	6585	6851
50°	6240	6353	6678
55°	5911	6083	6407
60°	5501	5731	6027
65°	4991	5245	5342
70°	4292	4524	4432
75°	3402	3532	3198
80°	2276	2219	1943
85°	1155	1309	1533

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6851 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.7	3.8
10°-20°	1556.4	10.7
20°-30°	2291.6	15.8
30°-40°	2674.5	18.4
40°-50°	2686.8	18.5
50°-60°	2325.9	16.0
60°-70°	1612.7	11.1
70°-80°	708.3	4.9
80°-90°	115.0	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°	4400.7	30.3
0°-40°	7075.3	48.7
0°-60°	12088.0	83.2
0°-90°	14524.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14524.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5867	5867	5867	5867	5867	
5°	5856	5829	5838	5815	5822	555
15°	5569	5536	5524	5498	5508	1569
25°	5025	4989	4972	4949	4973	2313
35°	4290	4251	4252	4288	4336	2681
45°	3433	3411	3461	3548	3600	2649
55°	2520	2508	2593	2696	2731	2249
65°	1568	1578	1647	1674	1678	1550
75°	654	667	680	640	615	703
85°	75	78	85	95	99	112
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5867.3	5867.3	5867.3	5867.3	5867.3
2.5°	5882.7	5855.5	5867.3	5849.5	5843.2
5°	5855.9	5828.8	5838.4	5815.4	5822.4
7.5°	5810.4	5782.6	5786.9	5763.0	5770.0
10°	5748.2	5716.7	5717.0	5691.1	5697.1
12.5°	5665.8	5634.5	5629.7	5601.1	5611.8
15°	5569.0	5535.6	5523.9	5498.2	5508.4
17.5°	5456.8	5421.3	5407.9	5376.9	5392.9
20°	5327.8	5291.1	5274.7	5241.3	5263.0
22.5°	5183.7	5146.4	5126.3	5098.9	5121.8
25°	5024.7	4989.0	4972.0	4948.8	4972.7
27.5°	4857.7	4818.1	4803.1	4791.4	4817.6
30°	4677.0	4637.1	4624.8	4623.8	4660.3
32.5°	4486.1	4448.3	4441.2	4458.9	4500.5
35°	4290.5	4251.0	4251.7	4288.1	4336.2
37.5°	4079.9	4049.8	4060.5	4115.3	4164.4
40°	3871.7	3840.0	3864.3	3931.1	3982.4
42.5°	3656.3	3630.7	3664.9	3746.0	3794.3
45°	3433.0	3411.1	3460.7	3547.7	3600.3
47.5°	3214.6	3190.9	3251.7	3345.3	3401.4
50°	2980.9	2965.2	3035.2	3137.6	3190.1
52.5°	2750.6	2735.1	2815.6	2922.6	2972.2
55°	2519.8	2507.8	2593.0	2695.8	2731.3
57.5°	2281.5	2281.3	2366.7	2455.5	2491.5
60°	2044.4	2046.0	2129.8	2209.0	2239.8
62.5°	1807.3	1814.4	1891.5	1952.2	1959.9
65°	1567.8	1577.9	1647.4	1674.2	1677.8
67.5°	1326.3	1341.9	1401.2	1408.7	1404.9
70°	1090.9	1102.2	1150.1	1144.3	1126.5
72.5°	862.3	878.4	903.7	885.0	859.0
75°	654.5	667.3	679.5	640.5	615.2
77.5°	460.8	469.5	467.5	426.2	408.6
80°	293.8	303.2	286.4	262.5	250.7
82.5°	163.0	170.9	156.5	163.3	167.0
85°	74.8	77.9	84.8	95.4	99.3
87.5°	25.6	29.0	34.4	36.2	33.5
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	18.11	19.69	18.47	20.01	20.32	18.64	20.22	19.00	20.54	20.85
	3H	19.55	20.97	19.93	21.30	21.66	20.00	21.43	20.38	21.76	22.12
	4H	19.96	21.30	20.36	21.65	22.02	20.34	21.67	20.74	22.02	22.40
	6H	20.16	21.39	20.57	21.76	22.15	20.46	21.69	20.87	22.06	22.45
	8H	20.18	21.36	20.60	21.75	22.15	20.47	21.65	20.89	22.04	22.44
	12H	20.18	21.30	20.61	21.68	22.11	20.47	21.60	20.90	21.98	22.41
4H	2H	18.71	20.05	19.11	20.40	20.77	19.14	20.48	19.54	20.83	21.20
	3H	20.32	21.43	20.73	21.83	22.23	20.69	21.80	21.10	22.20	22.60
	4H	20.82	21.82	21.25	22.23	22.67	21.10	22.10	21.53	22.51	22.95
	6H	21.09	21.96	21.54	22.40	22.86	21.28	22.15	21.73	22.59	23.05
	8H	21.12	21.93	21.59	22.38	22.84	21.30	22.11	21.76	22.56	23.02
	12H	21.13	21.86	21.61	22.33	22.80	21.32	22.04	21.80	22.52	22.99
8H	4H	21.00	21.81	21.46	22.25	22.72	21.25	22.06	21.71	22.50	22.97
	6H	21.31	21.98	21.81	22.47	22.95	21.47	22.14	21.96	22.63	23.10
	8H	21.37	21.97	21.88	22.48	22.96	21.51	22.11	22.02	22.62	23.11
	12H	21.40	21.93	21.91	22.42	22.98	21.55	22.08	22.06	22.57	23.14
12H	4H	20.99	21.71	21.47	22.19	22.66	21.24	21.97	21.72	22.44	22.92
	6H	21.30	21.90	21.81	22.41	22.89	21.46	22.06	21.97	22.56	23.05
	8H	21.39	21.92	21.90	22.41	22.97	21.53	22.06	22.04	22.55	23.11