

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: P1499207

Luminaire Tested: MAE-G-4-120-2HI-HI-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499207
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-4-120-2HI-HI-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

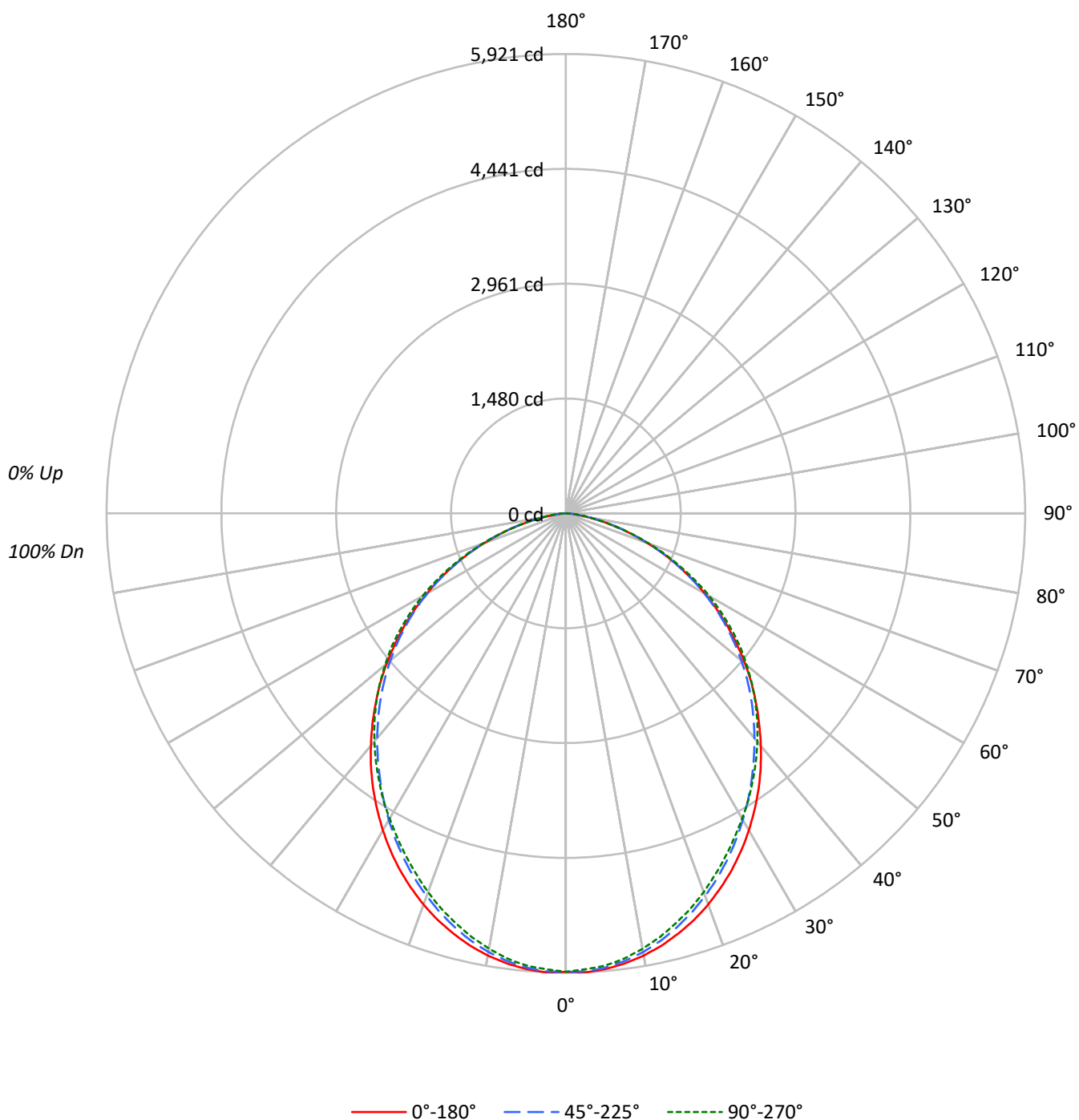
Lumens per Lamp: N/A
Luminaire Lumens: 14383.0 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 177.5
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°	7950	7950	7950
5°	7962	7936	7901
10°	7906	7842	7783
15°	7809	7695	7620
20°	7682	7513	7438
25°	7520	7311	7237
30°	7329	7090	7057
35°	7113	6861	6902
40°	6866	6644	6744
45°	6601	6423	6578
50°	6311	6183	6369
55°	5978	5898	6106
60°	5577	5544	5756
65°	5071	5073	5217
70°	4378	4429	4492
75°	3489	3589	3547
80°	2362	2493	2500
85°	1215	1666	2126

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6601 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.7	3.9
10°-20°	1556.3	10.8
20°-30°	2275.5	15.8
30°-40°	2639.1	18.3
40°-50°	2634.5	18.3
50°-60°	2269.4	15.8
60°-70°	1583.7	11.0
70°-80°	731.6	5.1
80°-90°	137.2	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°	4387.5	30.5
0°-40°	7026.6	48.9
0°-60°	11930.6	82.9
0°-90°	14383.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14383.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5909	5909	5909	5909	5909	
5°	5895	5874	5876	5842	5850	559
15°	5606	5567	5524	5467	5471	1580
25°	5066	5008	4924	4868	4875	2332
35°	4330	4256	4177	4174	4202	2707
45°	3469	3404	3375	3422	3457	2676
55°	2548	2498	2514	2576	2603	2276
65°	1593	1569	1593	1622	1639	1576
75°	671	664	690	685	682	722
85°	79	88	108	129	138	117
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5909.0	5909.0	5909.0	5909.0	5909.0
2.5°	5921.0	5901.7	5909.0	5883.1	5881.5
5°	5895.2	5873.8	5876.1	5842.1	5849.9
7.5°	5849.9	5825.1	5818.5	5780.1	5787.3
10°	5786.9	5756.6	5740.0	5692.9	5696.6
12.5°	5706.4	5671.9	5643.0	5588.8	5595.0
15°	5606.1	5567.4	5524.2	5467.2	5470.7
17.5°	5495.7	5453.5	5392.8	5332.3	5342.1
20°	5365.0	5318.8	5247.2	5184.3	5194.7
22.5°	5220.3	5167.8	5093.2	5030.7	5036.4
25°	5065.6	5007.7	4924.3	4867.6	4874.7
27.5°	4897.7	4833.1	4748.0	4697.4	4709.2
30°	4717.2	4649.4	4563.5	4525.9	4542.5
32.5°	4527.1	4457.7	4374.1	4354.5	4379.3
35°	4330.5	4256.5	4176.8	4174.4	4202.0
37.5°	4125.8	4053.0	3981.4	3995.9	4024.6
40°	3909.1	3840.8	3782.7	3808.7	3839.7
42.5°	3691.2	3625.6	3581.4	3619.3	3652.8
45°	3468.9	3403.6	3375.4	3421.5	3457.2
47.5°	3247.9	3182.1	3168.2	3221.2	3253.3
50°	3015.0	2956.4	2953.7	3011.3	3042.5
52.5°	2780.1	2726.0	2736.0	2797.8	2836.2
55°	2548.2	2497.7	2514.3	2575.8	2602.9
57.5°	2309.7	2269.7	2291.2	2346.0	2372.8
60°	2072.3	2035.5	2060.2	2112.6	2138.9
62.5°	1832.3	1800.3	1828.7	1872.7	1889.7
65°	1592.7	1568.7	1593.3	1621.5	1638.7
67.5°	1356.8	1334.2	1361.0	1388.2	1394.4
70°	1113.0	1098.8	1125.9	1142.0	1141.9
72.5°	888.7	874.8	900.5	906.6	902.1
75°	671.1	663.8	690.4	684.7	682.3
77.5°	473.5	476.9	490.9	486.7	485.5
80°	304.9	315.6	321.8	324.9	322.7
82.5°	171.5	181.2	190.5	213.1	222.0
85°	78.7	88.3	107.9	129.0	137.7
87.5°	26.5	34.1	45.3	48.8	46.1
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	18.13	19.71	18.49	20.03	20.34	18.35	19.94	18.72	20.25	20.57
	3H	19.59	21.02	19.97	21.35	21.71	19.82	21.24	20.20	21.57	21.93
	4H	20.02	21.36	20.42	21.71	22.08	20.24	21.57	20.63	21.92	22.30
	6H	20.23	21.46	20.64	21.83	22.22	20.44	21.68	20.85	22.05	22.44
	8H	20.25	21.43	20.68	21.82	22.22	20.49	21.67	20.91	22.06	22.46
	12H	20.25	21.38	20.68	21.76	22.19	20.52	21.64	20.95	22.03	22.46
4H	2H	18.69	20.03	19.09	20.37	20.75	18.87	20.21	19.27	20.56	20.93
	3H	20.33	21.44	20.74	21.84	22.24	20.52	21.64	20.93	22.03	22.43
	4H	20.84	21.84	21.27	22.26	22.69	21.03	22.03	21.46	22.45	22.88
	6H	21.13	22.00	21.58	22.44	22.90	21.32	22.19	21.77	22.63	23.09
	8H	21.17	21.98	21.63	22.43	22.89	21.39	22.20	21.85	22.64	23.11
	12H	21.18	21.91	21.66	22.39	22.86	21.44	22.16	21.92	22.64	23.11
8H	4H	21.03	21.84	21.49	22.29	22.75	21.20	22.01	21.66	22.46	22.92
	6H	21.37	22.04	21.87	22.53	23.01	21.55	22.22	22.04	22.71	23.18
	8H	21.44	22.04	21.95	22.55	23.04	21.65	22.25	22.16	22.76	23.25
	12H	21.48	22.01	21.98	22.50	23.06	21.74	22.27	22.25	22.76	23.33
12H	4H	21.03	21.76	21.51	22.23	22.70	21.20	21.93	21.68	22.40	22.87
	6H	21.37	21.97	21.88	22.48	22.97	21.54	22.15	22.06	22.65	23.14
	8H	21.47	22.01	21.98	22.50	23.06	21.68	22.21	22.19	22.70	23.27