

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: P1499474

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499474
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-35-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

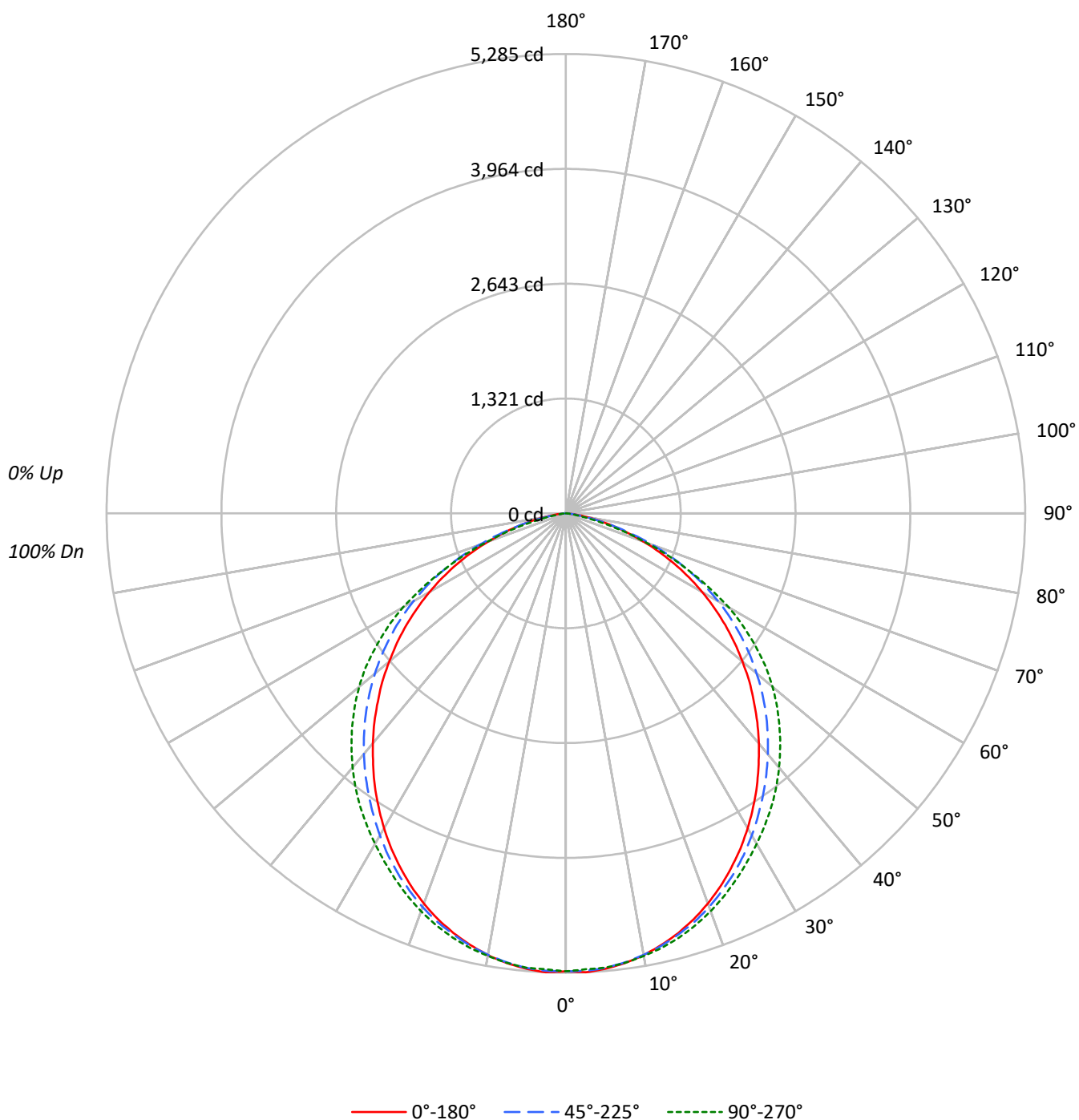
Lumens per Lamp: N/A
Luminaire Lumens: 13352.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132.9
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	102	98	107	103	100	96	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
5	78	65	56	50	76	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	36	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7088	7088	7088
5°	7104	7089	7085
10°	7051	7048	7064
15°	6961	6983	7034
20°	6840	6903	6974
25°	6681	6788	6895
30°	6500	6648	6822
35°	6296	6496	6770
40°	6067	6350	6703
45°	5820	6193	6617
50°	5550	6002	6499
55°	5252	5769	6249
60°	4874	5451	5831
65°	4401	4971	4994
70°	3757	4174	3882
75°	2950	3045	2388
80°	1925	1567	924
85°	923	619	491

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6617 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.6	3.7
10°-20°	1412.7	10.6
20°-30°	2101.1	15.7
30°-40°	2476.0	18.5
40°-50°	2510.4	18.8
50°-60°	2187.5	16.4
60°-70°	1496.0	11.2
70°-80°	601.0	4.5
80°-90°	69.7	0.5
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°	4011.5	30.0
0°-40°	6487.5	48.6
0°-60°	11185.3	83.8
0°-90°	13352.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13352.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5268	5268	5268	5268	5268	
5°	5260	5228	5248	5242	5246	499
15°	4998	4976	5013	5034	5050	1408
25°	4500	4502	4572	4606	4644	2072
35°	3833	3850	3955	4052	4122	2395
45°	3059	3100	3255	3401	3478	2361
55°	2239	2286	2459	2614	2664	1999
65°	1382	1445	1562	1574	1569	1367
75°	568	606	586	503	459	610
85°	60	54	40	35	32	92
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5268.1	5268.1	5268.1	5268.1	5268.1
2.5°	5285.0	5249.8	5268.1	5264.3	5250.8
5°	5259.5	5227.7	5248.4	5242.5	5246.0
7.5°	5218.0	5188.9	5210.7	5209.7	5215.6
10°	5160.9	5131.6	5158.5	5163.3	5170.6
12.5°	5085.3	5061.0	5093.9	5103.6	5118.1
15°	4997.5	4975.7	5013.4	5034.1	5050.0
17.5°	4895.2	4876.9	4925.6	4945.3	4967.1
20°	4777.0	4763.8	4820.9	4839.2	4871.0
22.5°	4645.6	4638.4	4697.9	4725.9	4762.5
25°	4500.5	4501.9	4572.4	4605.5	4644.3
27.5°	4348.4	4350.8	4431.3	4477.4	4518.8
30°	4183.9	4191.2	4279.0	4336.3	4391.0
32.5°	4009.7	4024.3	4119.3	4197.4	4258.2
35°	3833.1	3850.1	3955.1	4052.3	4121.7
37.5°	3642.0	3670.0	3788.2	3903.9	3975.6
40°	3454.3	3482.3	3615.1	3742.9	3816.2
42.5°	3260.8	3296.0	3437.4	3579.8	3650.3
45°	3058.6	3099.8	3254.6	3400.8	3477.5
47.5°	2864.8	2901.4	3064.5	3216.9	3296.0
50°	2651.5	2697.8	2867.2	3026.8	3104.9
52.5°	2448.3	2490.8	2665.0	2828.4	2898.9
55°	2238.8	2286.2	2459.3	2613.8	2663.9
57.5°	2024.3	2081.6	2248.5	2377.7	2425.1
60°	1811.3	1868.4	2025.6	2131.7	2166.9
62.5°	1599.2	1660.3	1797.8	1868.4	1868.4
65°	1382.4	1444.6	1561.5	1573.6	1568.7
67.5°	1165.7	1227.9	1316.7	1294.7	1280.1
70°	954.9	1008.5	1061.0	1020.6	986.7
72.5°	750.3	801.5	810.1	751.7	708.9
75°	567.5	605.5	585.8	503.2	459.3
77.5°	395.8	417.8	376.4	292.4	257.1
80°	248.5	258.2	202.2	142.4	119.3
82.5°	134.1	135.1	87.8	71.9	67.0
85°	59.8	53.6	40.1	35.3	31.8
87.5°	20.7	18.3	14.5	13.5	11.0
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	17.73	19.31	18.10	19.63	19.94	18.71	20.30	19.08	20.61	20.93
	3H	19.14	20.56	19.52	20.89	21.25	19.92	21.34	20.30	21.67	22.03
	4H	19.53	20.87	19.93	21.22	21.59	20.13	21.47	20.53	21.82	22.19
	6H	19.71	20.94	20.12	21.31	21.70	20.15	21.38	20.56	21.75	22.14
	8H	19.72	20.90	20.15	21.29	21.69	20.13	21.30	20.55	21.69	22.09
	12H	19.71	20.84	20.14	21.22	21.65	20.10	21.23	20.53	21.61	22.04
4H	2H	18.40	19.74	18.80	20.08	20.46	19.19	20.53	19.59	20.87	21.25
	3H	19.97	21.08	20.38	21.47	21.87	20.56	21.67	20.97	22.07	22.47
	4H	20.45	21.44	20.88	21.85	22.29	20.83	21.83	21.27	22.24	22.68
	6H	20.69	21.55	21.14	21.99	22.45	20.88	21.75	21.34	22.19	22.65
	8H	20.71	21.51	21.17	21.96	22.42	20.86	21.67	21.32	22.11	22.58
	12H	20.71	21.43	21.19	21.91	22.38	20.84	21.56	21.32	22.04	22.51
8H	4H	20.59	21.40	21.05	21.84	22.31	20.95	21.76	21.41	22.20	22.67
	6H	20.87	21.53	21.36	22.02	22.50	21.01	21.67	21.51	22.16	22.64
	8H	20.91	21.50	21.42	22.01	22.50	20.99	21.58	21.50	22.09	22.58
	12H	20.92	21.44	21.43	21.93	22.50	20.98	21.50	21.48	21.99	22.55
12H	4H	20.57	21.29	21.06	21.77	22.24	20.94	21.66	21.42	22.14	22.61
	6H	20.84	21.43	21.35	21.94	22.43	20.99	21.58	21.50	22.09	22.58
	8H	20.90	21.42	21.41	21.92	22.48	20.99	21.51	21.50	22.00	22.57