

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: P1499018

Luminaire Tested: MAE-G-4-120-1LO-HI-35-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1LO-HI-35-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

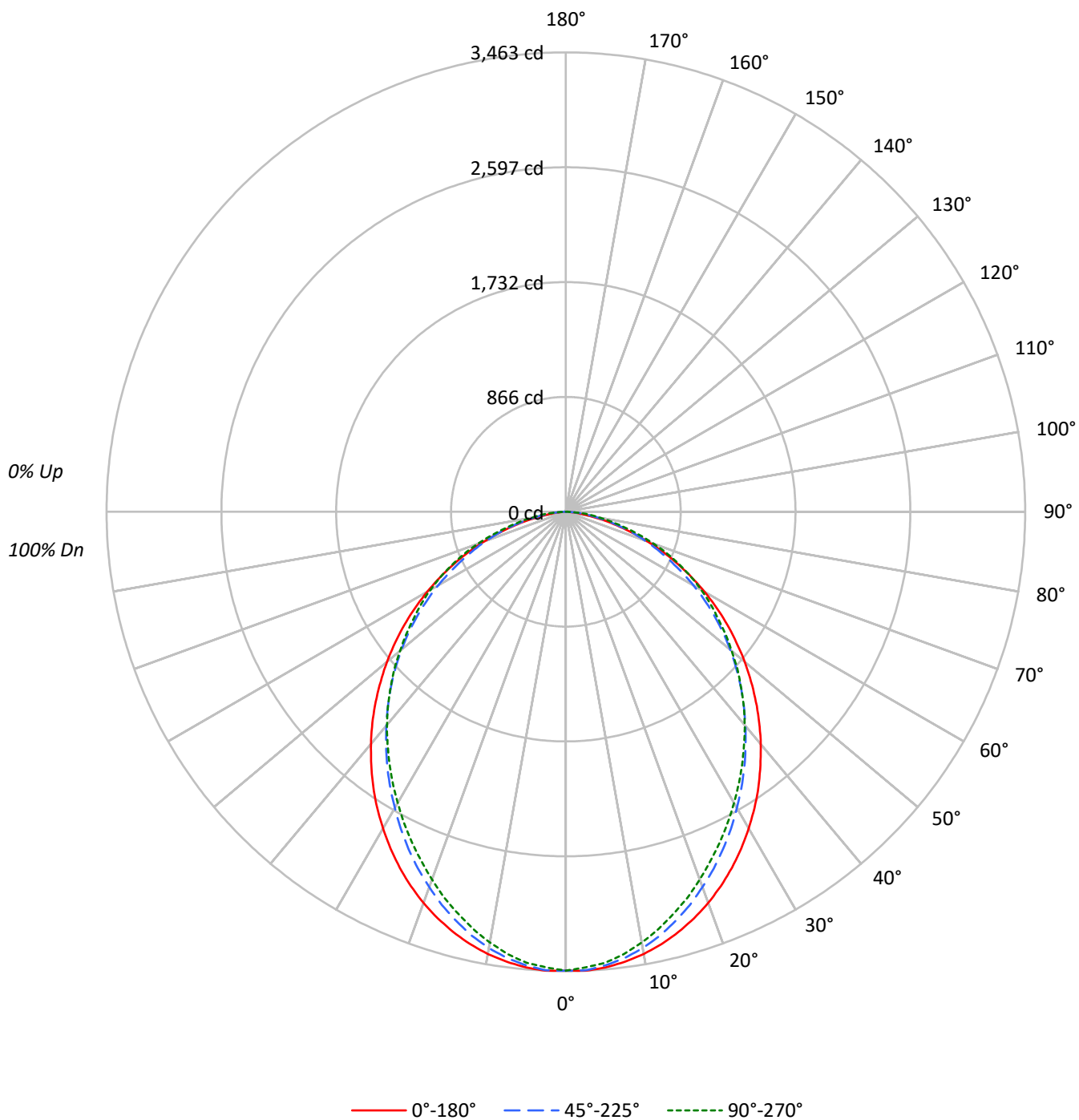
Lumens per Lamp: N/A
Luminaire Lumens: 8192.0 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.11 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 112.9
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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	84	72	64	58	82	71	63	57	69	62	56		66	60	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	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4654	4654	4654
5°	4657	4637	4609
10°	4625	4563	4505
15°	4569	4449	4370
20°	4493	4311	4225
25°	4397	4165	4079
30°	4283	4005	3938
35°	4159	3854	3807
40°	4016	3698	3684
45°	3857	3546	3553
50°	3687	3385	3416
55°	3489	3203	3282
60°	3247	2995	3178
65°	2964	2741	3014
70°	2579	2498	2777
75°	2069	2192	2422
80°	1444	1784	2056
85°	814	1422	1907

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3857 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.3	4.0
10°-20°	900.6	11.0
20°-30°	1301.9	15.9
30°-40°	1491.4	18.2
40°-50°	1469.8	17.9
50°-60°	1254.5	15.3
60°-70°	891.8	10.9
70°-80°	451.9	5.5
80°-90°	105.8	1.3
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°	2526.8	30.8
0°-40°	4018.1	49.0
0°-60°	6742.5	82.3
0°-90°	8192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8192.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3459	3459	3459	3459	3459	
5°	3448	3445	3433	3404	3412	327
15°	3280	3257	3194	3136	3137	924
25°	2962	2907	2805	2747	2747	1363
35°	2532	2455	2346	2312	2318	1582
45°	2027	1952	1863	1859	1867	1563
55°	1487	1418	1365	1380	1399	1328
65°	931	876	861	920	947	921
75°	398	374	422	459	466	429
85°	53	66	92	114	124	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3459.3	3459.3	3459.3	3459.3	3459.3
2.5°	3463.1	3466.5	3459.3	3431.2	3437.5
5°	3448.0	3445.4	3433.1	3403.9	3412.2
7.5°	3420.9	3415.2	3393.0	3357.4	3362.5
10°	3385.0	3373.7	3339.7	3294.5	3297.6
12.5°	3338.2	3322.0	3273.4	3220.6	3223.0
15°	3280.0	3257.1	3193.9	3135.6	3137.1
17.5°	3213.2	3185.3	3107.7	3044.0	3049.8
20°	3137.8	3101.0	3010.6	2947.7	2951.0
22.5°	3053.8	3008.4	2912.0	2849.0	2849.0
25°	2961.6	2907.0	2805.3	2746.8	2747.4
27.5°	2862.6	2801.8	2694.7	2638.9	2642.6
30°	2756.6	2690.4	2577.9	2530.6	2534.6
32.5°	2647.0	2576.0	2463.8	2423.4	2427.4
35°	2531.8	2454.9	2346.3	2311.8	2318.0
37.5°	2408.8	2333.6	2225.2	2203.1	2208.0
40°	2286.3	2208.7	2105.7	2090.1	2097.7
42.5°	2158.8	2082.8	1985.9	1975.1	1984.7
45°	2027.0	1952.1	1863.4	1858.7	1867.0
47.5°	1893.6	1820.4	1741.6	1740.6	1752.7
50°	1761.3	1689.6	1617.3	1622.4	1631.8
52.5°	1621.2	1553.4	1493.0	1500.3	1516.7
55°	1487.2	1418.4	1365.4	1379.6	1399.2
57.5°	1347.8	1287.7	1240.2	1264.2	1291.3
60°	1206.7	1148.3	1112.8	1152.4	1180.9
62.5°	1067.5	1011.1	984.9	1039.2	1063.9
65°	930.9	876.1	860.8	920.2	946.6
67.5°	793.9	744.9	747.7	810.9	830.4
70°	655.7	611.4	635.1	692.2	705.9
72.5°	524.7	488.4	528.3	575.0	582.8
75°	398.0	374.1	421.6	458.7	465.9
77.5°	285.5	273.0	320.8	351.3	359.5
80°	186.3	190.0	230.3	256.3	265.3
82.5°	109.1	120.2	152.7	182.0	191.3
85°	52.7	66.0	92.1	113.9	123.5
87.5°	17.9	26.8	38.9	43.4	42.1
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	16.18	17.76	16.55	18.08	18.39	16.03	17.62	16.40	17.93	18.24
	3H	17.65	19.08	18.03	19.41	19.77	17.77	19.20	18.15	19.53	19.89
	4H	18.09	19.43	18.49	19.78	20.16	18.36	19.70	18.76	20.05	20.43
	6H	18.32	19.56	18.74	19.93	20.32	18.75	19.99	19.16	20.36	20.75
	8H	18.36	19.55	18.79	19.93	20.33	18.88	20.06	19.30	20.45	20.85
	12H	18.37	19.50	18.80	19.88	20.31	18.97	20.10	19.40	20.49	20.91
4H	2H	16.67	18.01	17.07	18.36	18.73	16.54	17.88	16.94	18.23	18.61
	3H	18.33	19.45	18.74	19.85	20.25	18.50	19.62	18.91	20.01	20.41
	4H	18.86	19.86	19.29	20.28	20.72	19.21	20.22	19.64	20.63	21.07
	6H	19.17	20.05	19.63	20.49	20.95	19.72	20.60	20.17	21.04	21.50
	8H	19.24	20.06	19.70	20.50	20.96	19.89	20.71	20.35	21.15	21.62
	12H	19.26	20.00	19.74	20.47	20.94	20.02	20.76	20.50	21.23	21.70
8H	4H	19.10	19.92	19.56	20.36	20.83	19.41	20.23	19.88	20.68	21.14
	6H	19.49	20.16	19.98	20.65	21.13	20.02	20.70	20.52	21.19	21.67
	8H	19.58	20.19	20.09	20.70	21.19	20.26	20.86	20.77	21.37	21.86
	12H	19.64	20.18	20.15	20.67	21.23	20.46	21.00	20.97	21.49	22.05
12H	4H	19.12	19.85	19.60	20.33	20.80	19.42	20.15	19.90	20.63	21.10
	6H	19.52	20.13	20.03	20.64	21.12	20.03	20.64	20.54	21.15	21.64
	8H	19.66	20.20	20.17	20.69	21.25	20.32	20.85	20.83	21.35	21.91