

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: P1499324

Luminaire Tested: MAE-G-4-120-2LO-LO-30-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499324
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-4-120-2LO-LO-30-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

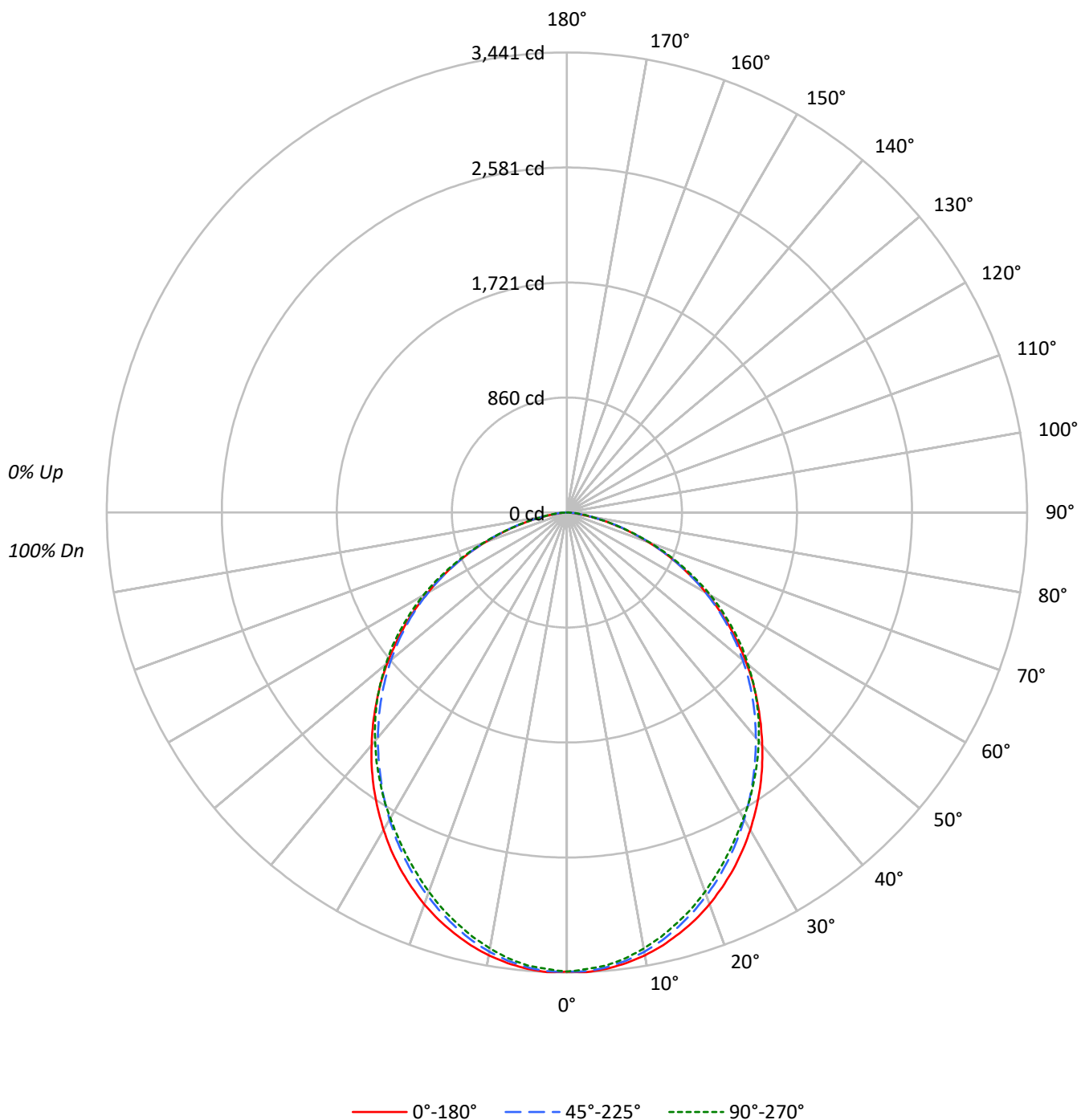
Lumens per Lamp: N/A
Luminaire Lumens: 8359.0 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 96.2
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	92	90	91	89	88	85		
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	61		
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	41		
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4621	4621	4621
5°	4627	4612	4592
10°	4595	4558	4523
15°	4539	4472	4429
20°	4464	4367	4323
25°	4371	4249	4206
30°	4259	4120	4102
35°	4134	3987	4011
40°	3990	3861	3920
45°	3836	3733	3823
50°	3668	3593	3701
55°	3474	3428	3548
60°	3241	3222	3345
65°	2947	2948	3032
70°	2545	2574	2611
75°	2027	2086	2061
80°	1374	1449	1454
85°	706	968	1235

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3836 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.0	3.9
10°-20°	904.5	10.8
20°-30°	1322.5	15.8
30°-40°	1533.8	18.3
40°-50°	1531.1	18.3
50°-60°	1318.9	15.8
60°-70°	920.4	11.0
70°-80°	425.2	5.1
80°-90°	79.7	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°	2549.9	30.5
0°-40°	4083.7	48.9
0°-60°	6933.7	82.9
0°-90°	8359.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8359.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3434	3434	3434	3434	3434	
5°	3426	3414	3415	3395	3400	325
15°	3258	3236	3210	3177	3179	918
25°	2944	2910	2862	2829	2833	1355
35°	2517	2474	2427	2426	2442	1573
45°	2016	1978	1962	1988	2009	1555
55°	1481	1452	1461	1497	1513	1323
65°	926	912	926	942	952	916
75°	390	386	401	398	396	420
85°	46	51	63	75	80	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3434.2	3434.2	3434.2	3434.2	3434.2
2.5°	3441.2	3429.9	3434.2	3419.1	3418.2
5°	3426.1	3413.7	3414.9	3395.3	3399.8
7.5°	3399.7	3385.4	3381.5	3359.3	3363.4
10°	3363.2	3345.5	3335.9	3308.5	3310.7
12.5°	3316.4	3296.3	3279.5	3248.0	3251.6
15°	3258.2	3235.7	3210.5	3177.4	3179.4
17.5°	3194.0	3169.4	3134.1	3099.0	3104.7
20°	3118.0	3091.1	3049.6	3013.0	3018.9
22.5°	3033.9	3003.4	2960.1	2923.7	2927.0
25°	2944.0	2910.3	2861.8	2828.9	2833.0
27.5°	2846.4	2808.9	2759.4	2730.0	2736.8
30°	2741.6	2702.1	2652.1	2630.3	2640.0
32.5°	2631.0	2590.7	2542.1	2530.7	2545.1
35°	2516.8	2473.8	2427.4	2426.1	2442.1
37.5°	2397.8	2355.5	2313.8	2322.3	2339.0
40°	2271.9	2232.2	2198.5	2213.5	2231.6
42.5°	2145.2	2107.1	2081.5	2103.4	2122.9
45°	2016.0	1978.1	1961.7	1988.4	2009.2
47.5°	1887.6	1849.4	1841.2	1872.1	1890.8
50°	1752.3	1718.2	1716.6	1750.0	1768.2
52.5°	1615.8	1584.2	1590.0	1626.0	1648.3
55°	1481.0	1451.6	1461.3	1496.9	1512.7
57.5°	1342.3	1319.0	1331.5	1363.4	1379.1
60°	1204.4	1183.0	1197.4	1227.8	1243.1
62.5°	1064.9	1046.3	1062.8	1088.3	1098.3
65°	925.7	911.6	926.0	942.4	952.4
67.5°	788.5	775.4	791.0	806.8	810.4
70°	646.9	638.6	654.4	663.8	663.6
72.5°	516.5	508.4	523.3	526.8	524.2
75°	390.0	385.8	401.2	397.9	396.5
77.5°	275.2	277.2	285.3	282.8	282.2
80°	177.3	183.5	187.0	188.8	187.6
82.5°	99.6	105.4	110.8	123.9	129.0
85°	45.7	51.3	62.7	74.9	80.0
87.5°	15.5	19.8	26.3	28.3	26.9
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	16.24	17.83	16.61	18.14	18.46	16.47	18.05	16.83	18.37	18.68
	3H	17.71	19.13	18.09	19.46	19.82	17.94	19.36	18.31	19.69	20.05
	4H	18.13	19.47	18.53	19.82	20.20	18.35	19.69	18.75	20.04	20.41
	6H	18.34	19.58	18.75	19.94	20.33	18.56	19.79	18.97	20.16	20.55
	8H	18.37	19.55	18.79	19.94	20.34	18.60	19.78	19.03	20.17	20.57
	12H	18.37	19.50	18.80	19.88	20.31	18.63	19.76	19.06	20.14	20.57
4H	2H	16.80	18.14	17.20	18.49	18.87	16.98	18.32	17.38	18.67	19.05
	3H	18.44	19.56	18.85	19.96	20.36	18.64	19.75	19.05	20.15	20.55
	4H	18.95	19.96	19.39	20.37	20.81	19.14	20.15	19.58	20.56	21.00
	6H	19.24	20.11	19.70	20.55	21.01	19.43	20.30	19.89	20.74	21.20
	8H	19.28	20.10	19.75	20.54	21.01	19.50	20.31	19.96	20.76	21.22
	12H	19.30	20.02	19.78	20.50	20.97	19.55	20.28	20.03	20.76	21.23
8H	4H	19.14	19.96	19.60	20.40	20.87	19.32	20.13	19.78	20.57	21.04
	6H	19.48	20.16	19.98	20.65	21.12	19.66	20.33	20.16	20.82	21.30
	8H	19.55	20.16	20.07	20.66	21.15	19.76	20.37	20.28	20.87	21.36
	12H	19.59	20.12	20.10	20.61	21.18	19.86	20.39	20.36	20.88	21.44
12H	4H	19.14	19.87	19.62	20.35	20.82	19.31	20.04	19.79	20.52	20.99
	6H	19.48	20.09	20.00	20.60	21.08	19.66	20.26	20.17	20.77	21.26
	8H	19.59	20.12	20.10	20.61	21.17	19.80	20.33	20.31	20.82	21.38

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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