

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: P1498634

Luminaire Tested: MAE-G-2-120-3HI-HI-35-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498634
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-2-120-3HI-HI-35-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

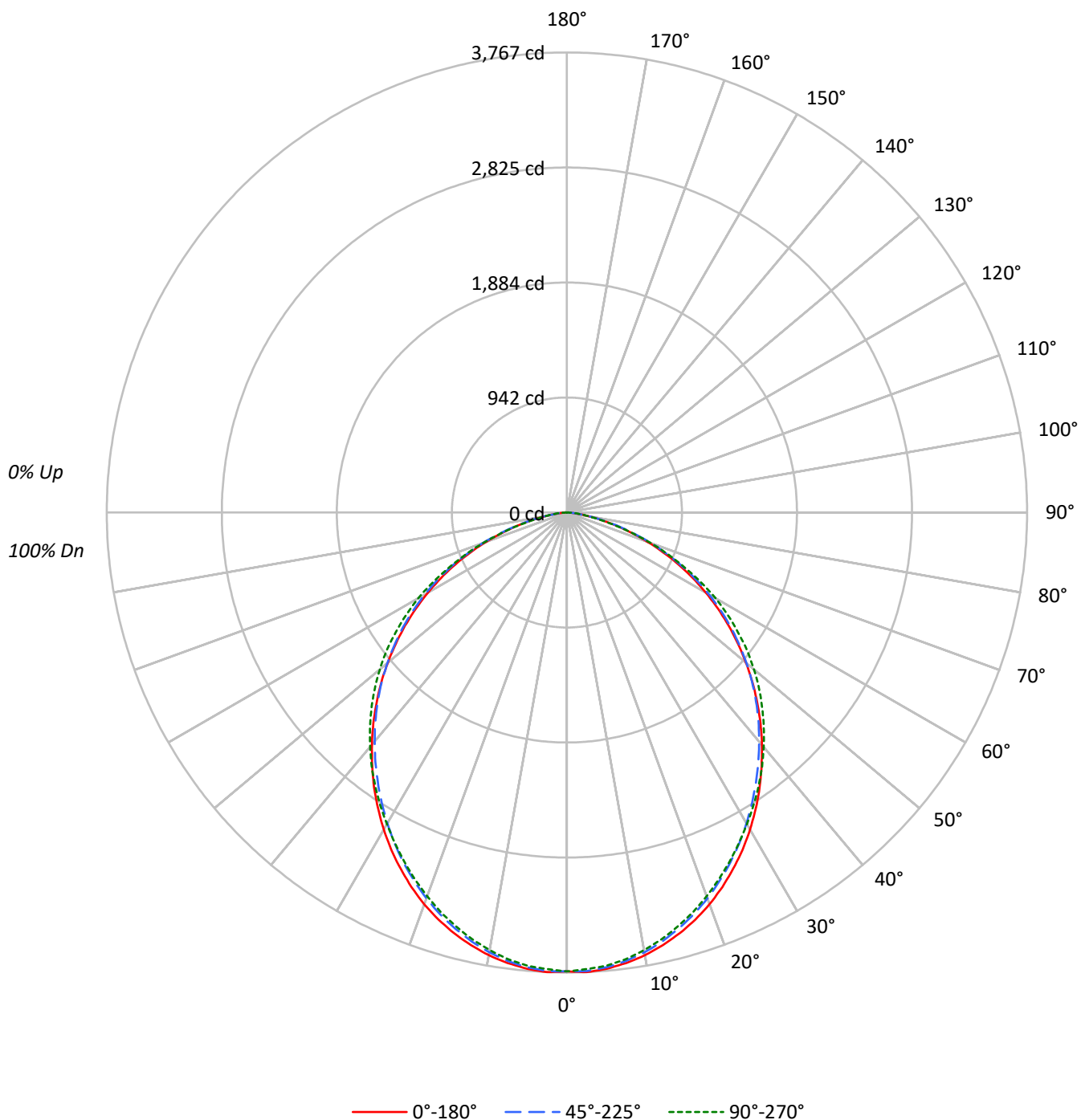
Lumens per Lamp: N/A
Luminaire Lumens: 9245.0 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 113
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	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	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10112	10112	10112
5°	10130	10098	10064
10°	10060	9992	9942
15°	9938	9829	9775
20°	9775	9629	9576
25°	9561	9396	9359
30°	9316	9132	9157
35°	9039	8862	8986
40°	8725	8600	8805
45°	8384	8332	8605
50°	8012	8029	8369
55°	7591	7678	8025
60°	7071	7229	7566
65°	6423	6622	6769
70°	5533	5755	5712
75°	4397	4572	4274
80°	2960	3000	2789
85°	1519	1880	2291

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8605 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.8	3.8
10°-20°	994.0	10.8
20°-30°	1459.7	15.8
30°-40°	1699.2	18.4
40°-50°	1702.9	18.4
50°-60°	1471.5	15.9
60°-70°	1024.1	11.1
70°-80°	460.1	5.0
80°-90°	79.8	0.9
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°	2807.4	30.4
0°-40°	4506.7	48.7
0°-60°	7681.1	83.1
0°-90°	9245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9245.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3758	3758	3758	3758	3758	
5°	3750	3734	3738	3721	3726	356
15°	3567	3544	3528	3504	3509	1005
25°	3220	3191	3164	3140	3152	1483
35°	2751	2716	2698	2709	2735	1719
45°	2203	2178	2190	2233	2261	1700
55°	1618	1600	1637	1691	1710	1444
65°	1009	1006	1040	1059	1063	997
75°	423	426	440	423	411	454
85°	49	53	61	70	74	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3757.7	3757.7	3757.7	3757.7	3757.7
2.5°	3767.0	3751.6	3757.7	3744.1	3741.5
5°	3750.2	3734.2	3738.1	3720.6	3725.6
7.5°	3721.1	3704.0	3703.6	3684.5	3689.1
10°	3681.5	3661.5	3656.8	3635.1	3638.6
12.5°	3629.0	3608.3	3598.5	3573.6	3579.6
15°	3567.2	3544.4	3528.0	3503.5	3508.9
17.5°	3495.6	3470.4	3450.6	3422.1	3431.0
20°	3413.5	3386.3	3362.6	3332.4	3344.0
22.5°	3321.5	3292.8	3265.8	3238.6	3250.3
25°	3220.1	3191.2	3164.5	3139.7	3151.9
27.5°	3113.5	3081.2	3054.4	3036.5	3050.0
30°	2998.2	2964.8	2938.8	2927.5	2946.9
32.5°	2876.4	2843.4	2820.3	2820.2	2842.6
35°	2751.4	2716.5	2697.8	2709.2	2735.4
37.5°	2616.9	2587.5	2574.5	2597.4	2623.9
40°	2483.7	2453.0	2448.3	2478.7	2506.6
42.5°	2345.7	2318.7	2320.4	2359.6	2385.5
45°	2203.0	2177.8	2189.5	2232.7	2261.0
47.5°	2062.7	2037.0	2056.1	2103.4	2134.1
50°	1913.7	1892.6	1917.9	1971.1	1999.1
52.5°	1765.5	1745.3	1778.3	1834.3	1861.4
55°	1618.1	1599.8	1636.6	1691.2	1710.5
57.5°	1465.5	1455.0	1493.1	1541.0	1561.3
60°	1313.8	1304.6	1343.2	1387.7	1405.9
62.5°	1161.8	1156.3	1193.2	1229.1	1235.3
65°	1008.8	1005.5	1040.0	1059.4	1063.1
67.5°	854.1	855.2	886.7	896.7	896.3
70°	703.2	702.5	731.4	734.1	726.0
72.5°	556.6	560.3	579.0	574.6	561.6
75°	422.9	426.2	439.7	423.4	411.1
77.5°	298.4	301.4	307.4	289.5	281.8
80°	191.0	196.8	193.6	185.2	180.0
82.5°	106.7	112.8	109.8	118.3	122.1
85°	49.2	52.9	60.9	70.4	74.2
87.5°	16.8	20.0	25.0	26.7	24.9
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	18.97	20.55	19.33	20.87	21.18	19.38	20.96	19.74	21.28	21.59
	3H	20.42	21.84	20.79	22.17	22.53	20.79	22.21	21.17	22.54	22.90
	4H	20.84	22.17	21.23	22.52	22.90	21.16	22.49	21.55	22.84	23.22
	6H	21.04	22.27	21.45	22.64	23.03	21.31	22.55	21.72	22.91	23.30
	8H	21.06	22.24	21.49	22.63	23.03	21.34	22.51	21.76	22.90	23.30
	12H	21.06	22.19	21.49	22.57	23.00	21.35	22.48	21.78	22.86	23.29
4H	2H	19.56	20.89	19.96	21.24	21.62	19.89	21.22	20.29	21.57	21.95
	3H	21.18	22.29	21.59	22.69	23.09	21.48	22.59	21.89	22.99	23.39
	4H	21.68	22.68	22.11	23.10	23.53	21.93	22.93	22.37	23.35	23.79
	6H	21.96	22.83	22.41	23.27	23.73	22.16	23.03	22.61	23.47	23.93
	8H	22.00	22.81	22.46	23.25	23.72	22.20	23.01	22.66	23.45	23.92
	12H	22.01	22.73	22.49	23.21	23.68	22.23	22.96	22.71	23.43	23.90
8H	4H	21.86	22.68	22.33	23.12	23.59	22.09	22.91	22.56	23.35	23.82
	6H	22.19	22.86	22.69	23.35	23.83	22.36	23.03	22.86	23.52	24.00
	8H	22.26	22.85	22.77	23.36	23.85	22.43	23.03	22.94	23.54	24.03
	12H	22.29	22.82	22.80	23.31	23.87	22.49	23.02	23.00	23.51	24.08
12H	4H	21.86	22.59	22.34	23.06	23.53	22.09	22.82	22.57	23.29	23.76
	6H	22.18	22.78	22.70	23.29	23.78	22.36	22.96	22.87	23.47	23.95
	8H	22.28	22.81	22.79	23.30	23.86	22.46	22.99	22.97	23.48	24.04