

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: P1498970

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498970
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-4-120-1HI-STD-35-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

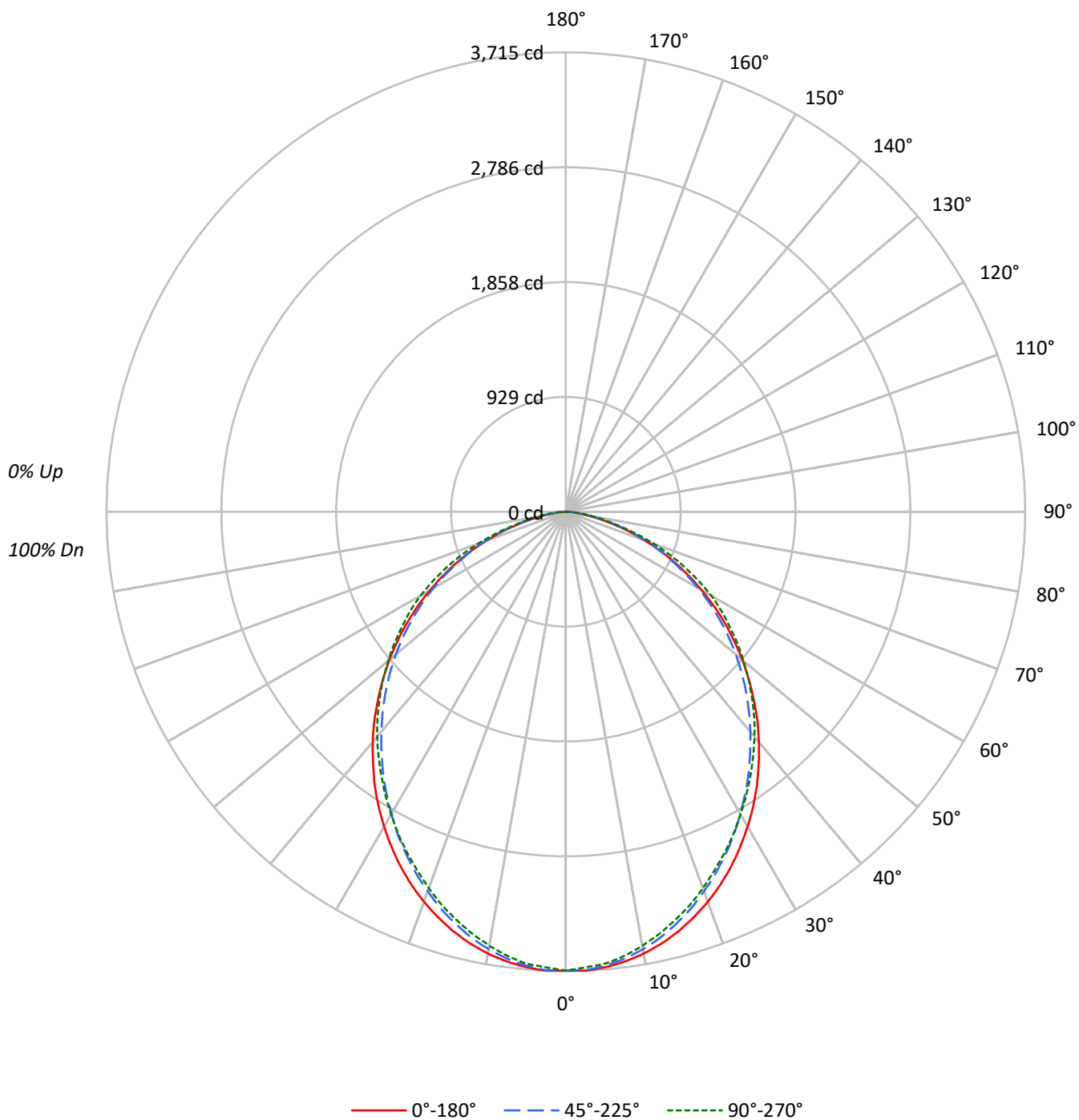
Lumens per Lamp: N/A
Luminaire Lumens: 8920.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 112.8
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	80	98	90	85	79	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		66	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	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°	4992	4992	4992
5°	4994	4976	4954
10°	4957	4908	4868
15°	4894	4805	4760
20°	4806	4677	4639
25°	4697	4538	4514
30°	4566	4382	4390
35°	4428	4234	4276
40°	4268	4077	4169
45°	4090	3922	4049
50°	3901	3755	3924
55°	3682	3558	3788
60°	3412	3331	3659
65°	3102	3029	3374
70°	2688	2707	2964
75°	2140	2273	2367
80°	1475	1712	1815
85°	821	1278	1635

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4090 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.5	3.9
10°-20°	973.1	10.9
20°-30°	1416.6	15.9
30°-40°	1633.6	18.3
40°-50°	1619.8	18.2
50°-60°	1388.8	15.6
60°-70°	976.2	10.9
70°-80°	465.5	5.2
80°-90°	97.9	1.1
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°	2738.2	30.7
0°-40°	4371.8	49.0
0°-60°	7380.5	82.7
0°-90°	8920.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8920.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3710	3710	3710	3710	3710	
5°	3697	3694	3684	3660	3668	351
15°	3513	3496	3449	3411	3417	990
25°	3164	3123	3057	3028	3040	1456
35°	2696	2641	2578	2580	2603	1684
45°	2150	2101	2061	2100	2128	1658
55°	1570	1525	1517	1574	1615	1401
65°	974	940	952	1027	1060	964
75°	412	397	437	458	455	445
85°	53	64	83	99	106	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3710.5	3710.5	3710.5	3710.5	3710.5
2.5°	3714.9	3717.7	3710.5	3683.7	3687.7
5°	3697.4	3694.1	3684.0	3660.3	3668.2
7.5°	3667.7	3663.1	3644.9	3617.2	3622.7
10°	3628.2	3618.9	3592.5	3558.3	3563.3
12.5°	3577.2	3565.2	3528.2	3490.3	3496.1
15°	3513.1	3495.7	3449.3	3410.7	3417.0
17.5°	3439.5	3420.6	3365.0	3323.2	3335.7
20°	3356.2	3329.9	3266.6	3228.1	3239.7
22.5°	3264.7	3231.5	3165.6	3129.7	3140.0
25°	3163.8	3123.2	3056.9	3028.4	3040.5
27.5°	3054.9	3010.6	2943.7	2918.8	2935.8
30°	2939.1	2891.5	2820.3	2807.3	2825.9
32.5°	2820.3	2770.1	2700.4	2696.9	2715.5
35°	2695.6	2640.6	2577.7	2580.3	2603.2
37.5°	2562.0	2509.8	2448.2	2467.4	2489.3
40°	2430.2	2375.9	2321.4	2348.3	2373.8
42.5°	2292.9	2241.2	2192.8	2225.1	2254.7
45°	2149.6	2101.3	2061.0	2099.5	2128.0
47.5°	2006.2	1958.0	1928.4	1971.2	2004.1
50°	1863.8	1818.2	1793.8	1842.8	1874.8
52.5°	1715.0	1671.3	1657.9	1708.6	1747.6
55°	1569.8	1525.2	1516.6	1574.4	1614.6
57.5°	1420.3	1385.4	1378.8	1443.2	1492.2
60°	1268.1	1233.4	1237.7	1314.8	1359.9
62.5°	1120.1	1085.6	1092.5	1179.1	1209.4
65°	974.2	939.7	951.5	1027.0	1059.9
67.5°	830.4	798.1	822.2	891.7	912.8
70°	683.2	654.7	688.1	745.0	753.5
72.5°	545.5	521.1	562.7	599.4	599.4
75°	411.6	397.3	437.2	458.5	455.4
77.5°	294.3	286.7	321.8	333.7	331.5
80°	190.3	194.7	221.0	229.4	234.2
82.5°	110.7	119.7	139.9	161.1	166.2
85°	53.2	64.1	82.8	99.3	105.9
87.5°	18.5	25.7	34.3	37.9	36.9
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	16.37	17.95	16.73	18.26	18.58	16.67	18.26	17.04	18.57	18.88
	3H	17.81	19.23	18.18	19.56	19.92	18.28	19.70	18.65	20.03	20.39
	4H	18.23	19.57	18.63	19.91	20.29	18.74	20.08	19.14	20.43	20.81
	6H	18.44	19.68	18.86	20.05	20.44	19.00	20.24	19.41	20.60	20.99
	8H	18.48	19.66	18.90	20.05	20.44	19.07	20.25	19.50	20.64	21.04
	12H	18.48	19.61	18.91	19.99	20.42	19.12	20.25	19.55	20.63	21.06
4H	2H	16.89	18.23	17.29	18.58	18.96	17.14	18.48	17.54	18.83	19.21
	3H	18.52	19.63	18.93	20.03	20.43	18.95	20.06	19.36	20.46	20.86
	4H	19.02	20.03	19.46	20.44	20.88	19.53	20.53	19.96	20.94	21.38
	6H	19.32	20.19	19.77	20.63	21.09	19.88	20.75	20.33	21.19	21.65
	8H	19.37	20.19	19.83	20.63	21.10	19.98	20.80	20.44	21.24	21.71
	12H	19.39	20.12	19.87	20.60	21.07	20.06	20.79	20.55	21.27	21.74
8H	4H	19.24	20.06	19.70	20.50	20.97	19.70	20.51	20.16	20.96	21.42
	6H	19.60	20.27	20.10	20.76	21.24	20.12	20.80	20.62	21.29	21.76
	8H	19.68	20.29	20.20	20.80	21.28	20.27	20.88	20.79	21.39	21.87
	12H	19.73	20.27	20.24	20.76	21.32	20.41	20.94	20.92	21.43	22.00
12H	4H	19.25	19.98	19.73	20.46	20.93	19.70	20.42	20.18	20.90	21.37
	6H	19.62	20.22	20.13	20.73	21.22	20.12	20.73	20.64	21.24	21.73
	8H	19.74	20.27	20.25	20.76	21.33	20.32	20.85	20.83	21.34	21.91