

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: P1498322

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498322
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-2-120-2HI-35-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

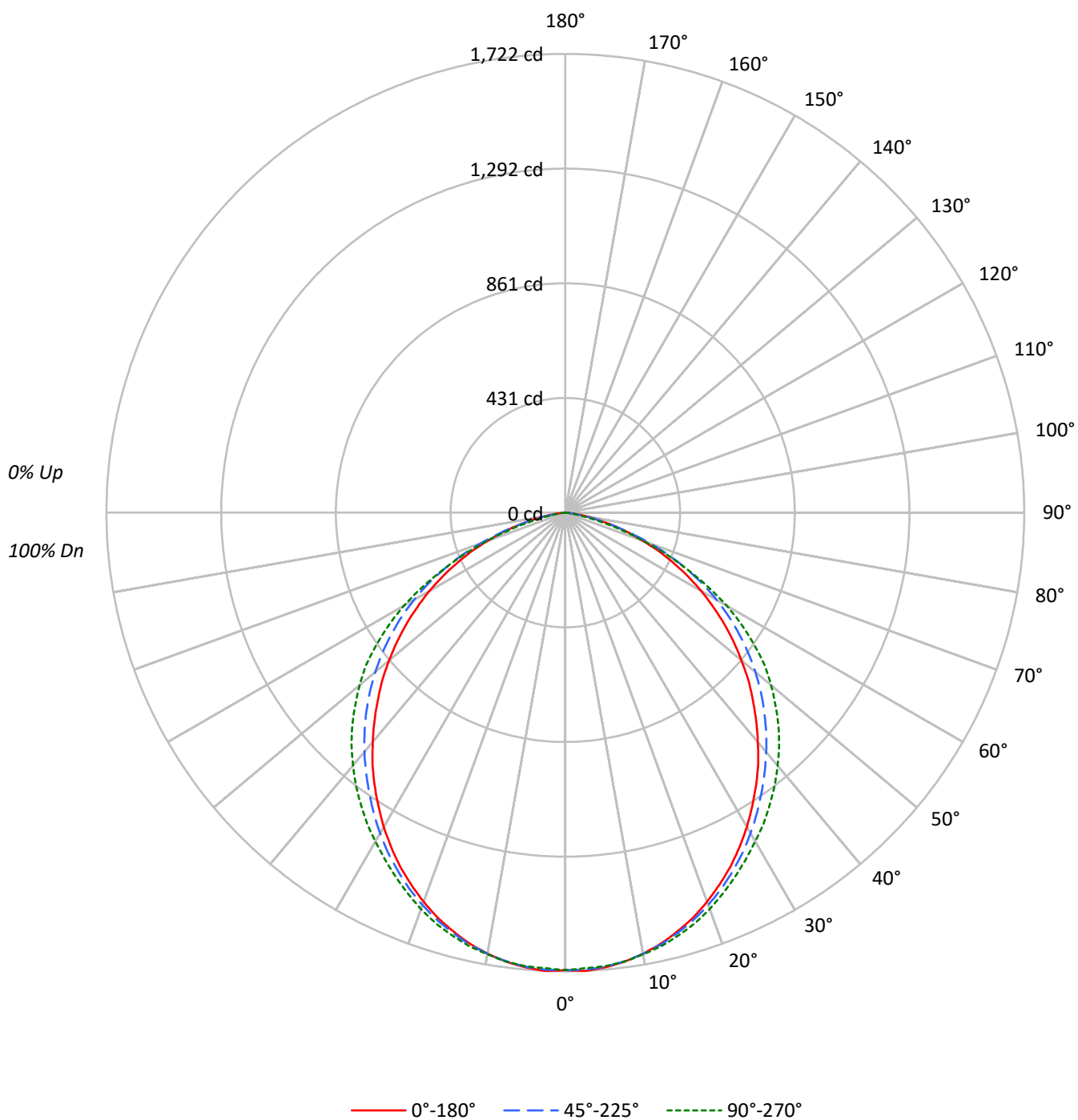
Lumens per Lamp: N/A
Luminaire Lumens: 4335.0 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 45.2
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
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	97	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	58	69	62	57		67	61	56		65
5	78	65	57	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	45	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	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4621	4621	4621
5°	4629	4622	4617
10°	4594	4594	4600
15°	4533	4549	4576
20°	4452	4489	4535
25°	4353	4410	4476
30°	4233	4320	4428
35°	4099	4215	4394
40°	3948	4120	4353
45°	3786	4017	4305
50°	3611	3896	4218
55°	3412	3740	4060
60°	3170	3531	3770
65°	2859	3208	3227
70°	2441	2670	2496
75°	1916	1934	1559
80°	1246	995	597
85°	577	377	306

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4305 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.2	3.7
10°-20°	460.0	10.6
20°-30°	683.4	15.8
30°-40°	804.9	18.6
40°-50°	815.5	18.8
50°-60°	709.8	16.4
60°-70°	483.7	11.2
70°-80°	193.3	4.5
80°-90°	22.1	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°	1305.6	30.1
0°-40°	2110.6	48.7
0°-60°	3635.8	83.9
0°-90°	4335.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4335.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1717	1717	1717	1717	1717	
5°	1714	1704	1711	1709	1709	163
15°	1627	1620	1633	1639	1643	459
25°	1466	1467	1485	1498	1508	675
35°	1248	1254	1283	1317	1338	780
45°	995	1007	1056	1105	1131	768
55°	727	743	797	847	865	650
65°	449	470	504	504	507	445
75°	184	195	186	160	150	199
85°	19	17	12	11	10	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1717.3	1717.3	1717.3	1717.3	1717.3
2.5°	1722.1	1711.0	1717.3	1716.1	1711.5
5°	1713.8	1703.9	1711.0	1708.7	1709.2
7.5°	1700.4	1691.1	1698.7	1698.1	1699.9
10°	1681.2	1671.9	1681.2	1681.7	1683.5
12.5°	1657.2	1649.1	1660.2	1662.5	1666.7
15°	1627.0	1620.0	1632.8	1638.7	1642.7
17.5°	1594.3	1589.7	1602.5	1610.1	1616.5
20°	1554.7	1552.3	1567.5	1575.0	1583.8
22.5°	1511.5	1510.3	1528.5	1537.8	1546.5
25°	1466.0	1466.6	1485.3	1497.6	1507.5
27.5°	1415.8	1417.0	1439.8	1454.4	1466.6
30°	1362.2	1365.2	1390.2	1410.0	1425.2
32.5°	1305.6	1310.9	1337.7	1365.2	1384.4
35°	1247.9	1253.8	1283.0	1316.7	1337.7
37.5°	1188.5	1194.9	1228.7	1268.4	1290.6
40°	1123.8	1133.6	1172.8	1216.4	1239.1
42.5°	1060.1	1071.2	1115.0	1162.8	1187.3
45°	994.9	1007.1	1055.5	1105.1	1131.3
47.5°	931.9	942.3	994.2	1046.2	1069.5
50°	862.5	876.4	930.7	982.6	1007.6
52.5°	796.0	809.4	864.8	917.8	943.6
55°	727.2	742.9	797.2	847.3	865.4
57.5°	657.8	675.9	728.3	769.7	785.4
60°	589.0	607.1	656.0	688.6	700.4
62.5°	519.5	538.2	581.4	601.3	603.6
65°	449.0	470.1	503.8	504.5	506.8
67.5°	382.0	399.4	423.9	417.0	413.5
70°	310.2	329.4	339.4	325.4	317.2
72.5°	246.7	260.6	258.9	238.4	228.6
75°	184.3	195.4	186.0	159.8	149.9
77.5°	127.7	137.0	118.3	93.8	84.0
80°	80.4	84.6	64.2	45.5	38.5
82.5°	43.2	42.5	27.5	22.7	21.0
85°	18.7	16.9	12.2	11.1	9.9
87.5°	6.4	5.8	4.6	4.1	3.5
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	16.23	17.82	16.60	18.13	18.44	17.19	18.78	17.56	19.09	19.40
	3H	17.65	19.08	18.03	19.40	19.76	18.38	19.80	18.76	20.13	20.49
	4H	18.05	19.38	18.45	19.73	20.11	18.60	19.93	19.00	20.28	20.66
	6H	18.22	19.45	18.63	19.82	20.21	18.62	19.85	19.03	20.21	20.61
	8H	18.24	19.41	18.66	19.80	20.20	18.59	19.77	19.02	20.16	20.56
	12H	18.23	19.35	18.66	19.73	20.16	18.57	19.69	19.00	20.07	20.50
4H	2H	16.90	18.23	17.29	18.58	18.95	17.67	19.00	18.07	19.35	19.73
	3H	18.47	19.58	18.88	19.98	20.38	19.02	20.12	19.43	20.52	20.92
	4H	18.95	19.94	19.38	20.36	20.79	19.29	20.28	19.72	20.69	21.13
	6H	19.19	20.05	19.64	20.49	20.95	19.34	20.20	19.79	20.64	21.10
	8H	19.21	20.01	19.67	20.46	20.92	19.31	20.12	19.78	20.56	21.03
	12H	19.21	19.93	19.69	20.40	20.88	19.29	20.01	19.77	20.49	20.96
8H	4H	19.08	19.89	19.55	20.33	20.80	19.40	20.20	19.86	20.65	21.11
	6H	19.36	20.02	19.86	20.51	20.99	19.46	20.12	19.96	20.61	21.09
	8H	19.40	19.99	19.91	20.50	20.99	19.44	20.03	19.95	20.54	21.02
	12H	19.41	19.93	19.92	20.42	20.99	19.42	19.94	19.93	20.43	21.00
12H	4H	19.07	19.78	19.55	20.26	20.73	19.39	20.11	19.87	20.59	21.06
	6H	19.33	19.92	19.84	20.43	20.92	19.44	20.03	19.95	20.54	21.03
	8H	19.39	19.91	19.90	20.41	20.97	19.44	19.96	19.95	20.45	21.01