

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: P1498151

Luminaire Tested: MAE-G-2-120-1LO-HI-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498151
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-2-120-1LO-HI-35-90-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

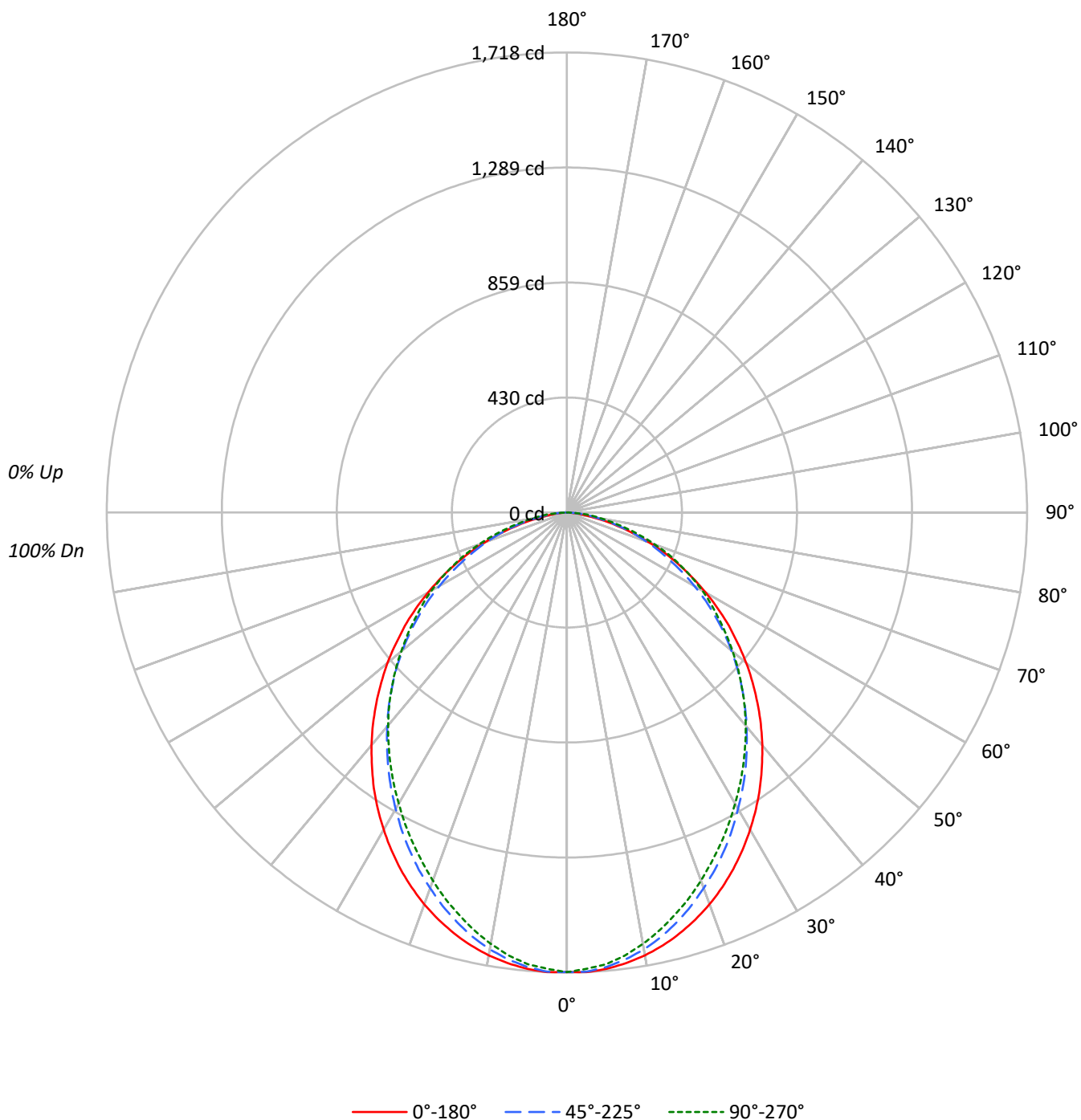
Lumens per Lamp: N/A
Luminaire Lumens: 4062.0 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.1 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 57.4
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	77	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°	4618	4618	4618
5°	4621	4601	4572
10°	4589	4527	4469
15°	4534	4413	4333
20°	4458	4275	4189
25°	4363	4130	4042
30°	4250	3971	3901
35°	4127	3821	3772
40°	3986	3666	3649
45°	3829	3514	3517
50°	3660	3355	3381
55°	3463	3174	3248
60°	3225	2967	3145
65°	2943	2716	2985
70°	2562	2478	2756
75°	2057	2177	2411
80°	1435	1777	2053
85°	806	1417	1905

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3829 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.9	4.0
10°-20°	446.7	11.0
20°-30°	645.5	15.9
30°-40°	739.3	18.2
40°-50°	728.5	17.9
50°-60°	621.7	15.3
60°-70°	442.1	10.9
70°-80°	224.5	5.5
80°-90°	52.7	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°	1253.1	30.8
0°-40°	1992.4	49.1
0°-60°	3342.6	82.3
0°-90°	4062.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4062.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1716	1716	1716	1716	1716	
5°	1711	1709	1703	1689	1693	162
15°	1627	1616	1584	1555	1556	459
25°	1470	1442	1391	1361	1361	676
35°	1256	1218	1163	1145	1148	785
45°	1006	968	924	920	924	776
55°	738	704	676	683	692	659
65°	462	435	427	456	469	457
75°	198	186	209	228	232	213
85°	26	33	46	57	62	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1716.2	1716.2	1716.2	1716.2	1716.2
2.5°	1718.1	1719.8	1716.2	1702.3	1705.4
5°	1710.7	1709.4	1703.2	1688.6	1692.7
7.5°	1697.2	1694.3	1683.2	1665.5	1667.9
10°	1679.4	1673.7	1656.7	1634.1	1635.6
12.5°	1656.2	1648.0	1623.7	1597.1	1598.3
15°	1627.4	1615.9	1584.1	1554.8	1555.5
17.5°	1594.3	1580.2	1541.2	1509.2	1512.0
20°	1556.8	1538.4	1492.9	1461.4	1462.7
22.5°	1515.3	1492.4	1444.0	1412.2	1412.0
25°	1469.5	1442.2	1391.0	1361.4	1361.4
27.5°	1420.4	1389.9	1336.0	1307.7	1309.3
30°	1367.9	1334.6	1278.0	1253.9	1255.6
32.5°	1313.5	1278.0	1221.4	1200.6	1202.5
35°	1256.4	1217.8	1163.0	1145.2	1148.1
37.5°	1195.4	1157.6	1102.9	1091.3	1093.5
40°	1134.7	1095.7	1043.7	1035.2	1038.7
42.5°	1071.4	1033.2	984.2	978.1	982.6
45°	1006.1	968.3	923.5	920.3	924.2
47.5°	939.8	903.0	863.1	861.8	867.5
50°	874.3	838.1	801.4	803.2	807.5
52.5°	804.7	770.6	739.8	742.7	750.5
55°	738.2	703.6	676.5	682.9	692.2
57.5°	669.0	638.8	614.5	625.8	638.9
60°	599.2	569.7	551.3	570.5	584.4
62.5°	530.1	501.6	488.1	514.5	526.8
65°	462.2	434.7	426.6	455.9	468.8
67.5°	394.2	369.5	370.6	401.9	411.6
70°	325.6	303.4	315.0	343.4	350.3
72.5°	260.6	242.4	262.1	285.5	289.5
75°	197.8	185.7	209.4	228.2	231.9
77.5°	141.9	135.6	159.5	175.0	179.2
80°	92.6	94.5	114.7	127.9	132.5
82.5°	54.2	59.8	76.1	90.8	95.5
85°	26.1	32.8	45.9	57.0	61.7
87.5°	9.0	13.4	19.4	21.6	21.0
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	16.16	17.74	16.52	18.05	18.37	15.99	17.57	16.36	17.89	18.20
	3H	17.63	19.05	18.01	19.38	19.74	17.74	19.16	18.12	19.49	19.85
	4H	18.07	19.41	18.47	19.76	20.14	18.33	19.67	18.73	20.02	20.40
	6H	18.30	19.54	18.71	19.91	20.30	18.73	19.97	19.14	20.33	20.72
	8H	18.34	19.52	18.77	19.91	20.31	18.86	20.04	19.28	20.43	20.83
	12H	18.35	19.48	18.78	19.86	20.29	18.95	20.08	19.38	20.46	20.89
4H	2H	16.64	17.98	17.04	18.33	18.71	16.50	17.85	16.90	18.19	18.57
	3H	18.31	19.42	18.72	19.82	20.22	18.46	19.58	18.87	19.98	20.38
	4H	18.83	19.84	19.26	20.25	20.69	19.18	20.19	19.61	20.60	21.04
	6H	19.15	20.03	19.61	20.47	20.93	19.70	20.57	20.15	21.02	21.47
	8H	19.21	20.03	19.67	20.48	20.94	19.87	20.69	20.33	21.13	21.60
	12H	19.24	19.97	19.72	20.45	20.92	20.00	20.74	20.49	21.22	21.69
8H	4H	19.07	19.89	19.53	20.34	20.80	19.39	20.21	19.85	20.65	21.12
	6H	19.46	20.14	19.96	20.63	21.11	20.00	20.68	20.49	21.17	21.64
	8H	19.56	20.17	20.07	20.68	21.17	20.24	20.85	20.75	21.35	21.84
	12H	19.62	20.16	20.13	20.65	21.21	20.45	20.98	20.96	21.48	22.04
12H	4H	19.09	19.83	19.57	20.30	20.78	19.39	20.12	19.87	20.60	21.07
	6H	19.50	20.11	20.01	20.62	21.10	20.01	20.62	20.52	21.13	21.62
	8H	19.64	20.18	20.15	20.67	21.23	20.30	20.84	20.81	21.33	21.89