

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: P1498094

Luminaire Tested: MAE-G-2-120-1HI-LO-50-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498094
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-2-120-1HI-LO-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

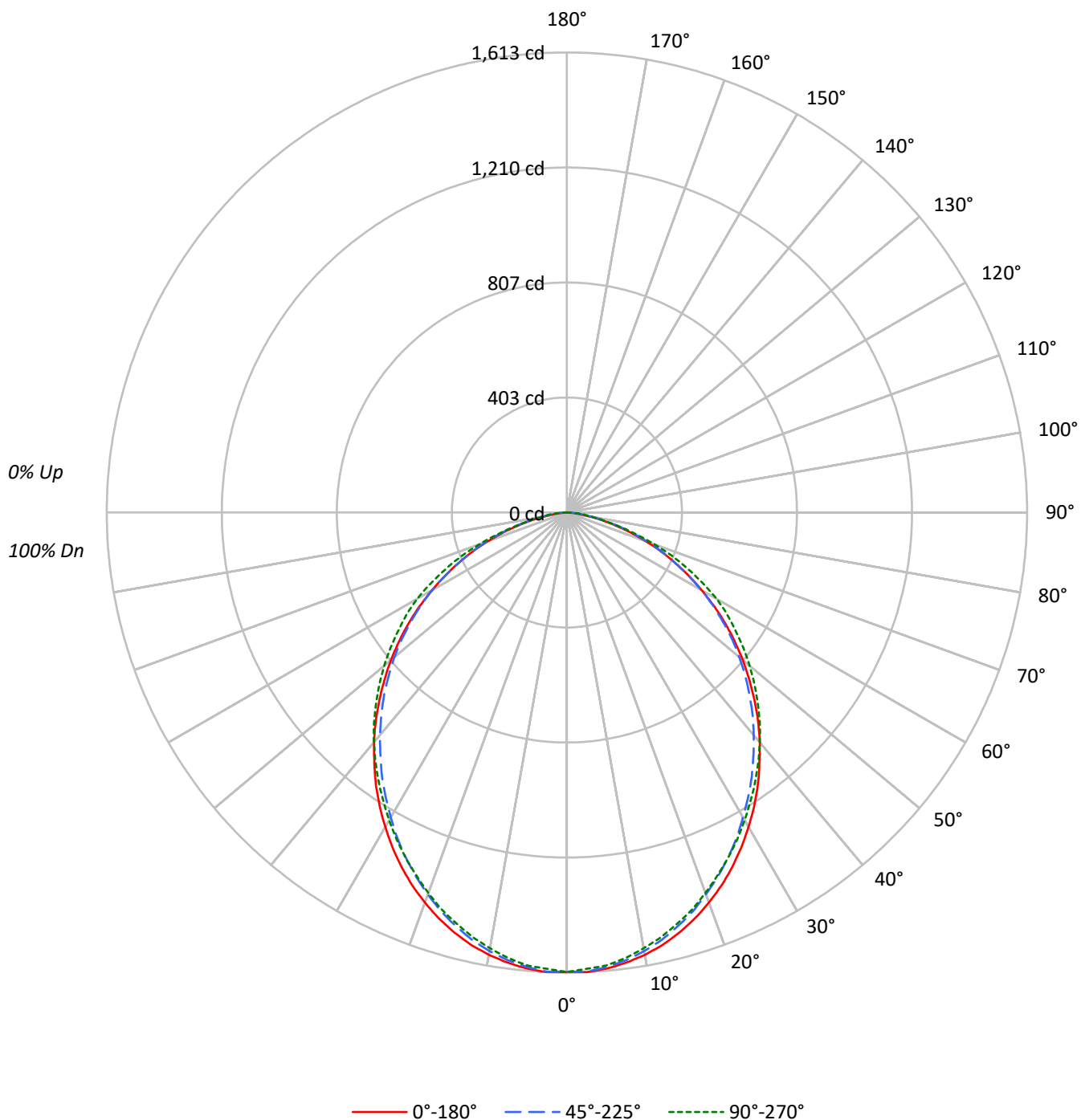
Lumens per Lamp: N/A
Luminaire Lumens: 3896.0 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 47.1
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	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	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	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4335	4335	4335
5°	4336	4321	4306
10°	4303	4267	4240
15°	4247	4184	4159
20°	4168	4080	4065
25°	4072	3966	3968
30°	3956	3835	3870
35°	3833	3711	3780
40°	3693	3579	3696
45°	3535	3447	3599
50°	3369	3304	3498
55°	3177	3132	3382
60°	2939	2933	3265
65°	2666	2662	2979
70°	2306	2360	2570
75°	1830	1946	1975
80°	1254	1416	1440
85°	698	1022	1275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3599 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.4	3.9
10°-20°	423.8	10.9
20°-30°	618.6	15.9
30°-40°	715.2	18.4
40°-50°	710.8	18.2
50°-60°	610.5	15.7
60°-70°	427.3	11.0
70°-80°	198.7	5.1
80°-90°	39.8	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°	1193.7	30.6
0°-40°	1908.9	49.0
0°-60°	3230.2	82.9
0°-90°	3896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3896.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1611	1611	1611	1611	1611	
5°	1605	1604	1600	1591	1594	152
15°	1524	1518	1502	1489	1493	429
25°	1372	1357	1336	1329	1336	631
35°	1167	1148	1130	1138	1151	729
45°	929	914	906	930	946	717
55°	677	663	668	700	721	605
65°	419	408	418	453	468	415
75°	176	172	187	193	190	190
85°	23	27	33	39	41	32
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1611.1	1611.1	1611.1	1611.1	1611.1
2.5°	1613.0	1614.0	1611.1	1600.0	1601.2
5°	1605.2	1603.6	1599.8	1590.8	1594.1
7.5°	1592.1	1590.3	1583.5	1573.3	1575.6
10°	1574.8	1571.3	1561.5	1549.1	1551.7
12.5°	1552.5	1548.2	1534.9	1521.6	1524.7
15°	1524.4	1518.1	1501.7	1489.1	1492.7
17.5°	1492.1	1485.8	1466.5	1453.0	1459.5
20°	1455.5	1446.5	1424.7	1413.1	1419.6
22.5°	1415.5	1403.8	1381.8	1371.7	1378.0
25°	1371.5	1356.9	1335.6	1329.2	1336.4
27.5°	1323.7	1308.0	1287.4	1282.6	1292.3
30°	1273.0	1256.5	1234.1	1235.1	1245.6
32.5°	1221.2	1203.9	1182.5	1187.9	1198.5
35°	1166.9	1147.8	1129.8	1137.9	1150.7
37.5°	1108.5	1090.9	1073.7	1089.4	1101.9
40°	1051.3	1032.7	1018.8	1038.1	1052.1
42.5°	991.6	974.3	963.0	984.6	1000.8
45°	929.0	913.7	905.7	929.9	945.7
47.5°	866.7	851.0	847.8	874.0	891.7
50°	804.8	790.4	789.1	817.9	835.6
52.5°	740.5	726.5	729.6	759.2	779.8
55°	677.2	662.9	667.5	700.0	720.8
57.5°	612.2	602.3	607.0	641.7	666.5
60°	546.1	535.8	545.0	584.6	606.7
62.5°	482.0	471.5	480.6	523.1	537.0
65°	418.7	408.0	418.1	452.8	467.9
67.5°	356.9	346.3	360.5	390.9	400.1
70°	293.1	284.1	300.0	323.9	326.6
72.5°	233.9	225.8	243.6	257.2	255.7
75°	176.0	171.8	187.2	193.2	190.0
77.5°	125.7	123.4	135.8	137.4	134.5
80°	80.9	82.9	91.4	91.7	92.9
82.5°	47.0	50.4	56.6	64.1	65.4
85°	22.6	26.7	33.1	39.1	41.3
87.5°	7.9	10.7	13.6	15.0	14.6
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	15.85	17.44	16.22	17.75	18.06	16.33	17.92	16.70	18.23	18.54
	3H	17.28	18.70	17.66	19.03	19.39	17.89	19.31	18.26	19.64	20.00
	4H	17.70	19.03	18.09	19.38	19.76	18.31	19.65	18.71	20.00	20.37
	6H	17.90	19.14	18.32	19.51	19.90	18.52	19.76	18.93	20.12	20.51
	8H	17.93	19.11	18.36	19.50	19.90	18.57	19.75	19.00	20.14	20.54
	12H	17.94	19.06	18.37	19.45	19.88	18.61	19.74	19.04	20.12	20.55
4H	2H	16.40	17.74	16.80	18.08	18.46	16.79	18.13	17.19	18.48	18.85
	3H	18.01	19.12	18.42	19.52	19.92	18.54	19.65	18.95	20.05	20.45
	4H	18.50	19.51	18.94	19.92	20.36	19.07	20.07	19.50	20.48	20.92
	6H	18.79	19.66	19.24	20.10	20.56	19.36	20.24	19.82	20.68	21.13
	8H	18.84	19.65	19.30	20.09	20.56	19.44	20.26	19.91	20.70	21.17
	12H	18.86	19.58	19.34	20.06	20.53	19.51	20.24	19.99	20.71	21.18
8H	4H	18.71	19.53	19.18	19.97	20.44	19.23	20.04	19.69	20.48	20.95
	6H	19.06	19.73	19.55	20.22	20.70	19.59	20.26	20.08	20.75	21.23
	8H	19.14	19.74	19.65	20.25	20.73	19.71	20.31	20.22	20.82	21.31
	12H	19.18	19.71	19.69	20.21	20.77	19.82	20.35	20.33	20.84	21.40
12H	4H	18.72	19.45	19.20	19.92	20.39	19.22	19.95	19.70	20.43	20.90
	6H	19.07	19.67	19.58	20.18	20.67	19.58	20.19	20.10	20.70	21.18
	8H	19.18	19.71	19.69	20.21	20.77	19.75	20.28	20.25	20.77	21.33