

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: P1498304

Luminaire Tested: MAE-G-2-120-1STD-STD-40-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498304
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-2-120-1STD-STD-40-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

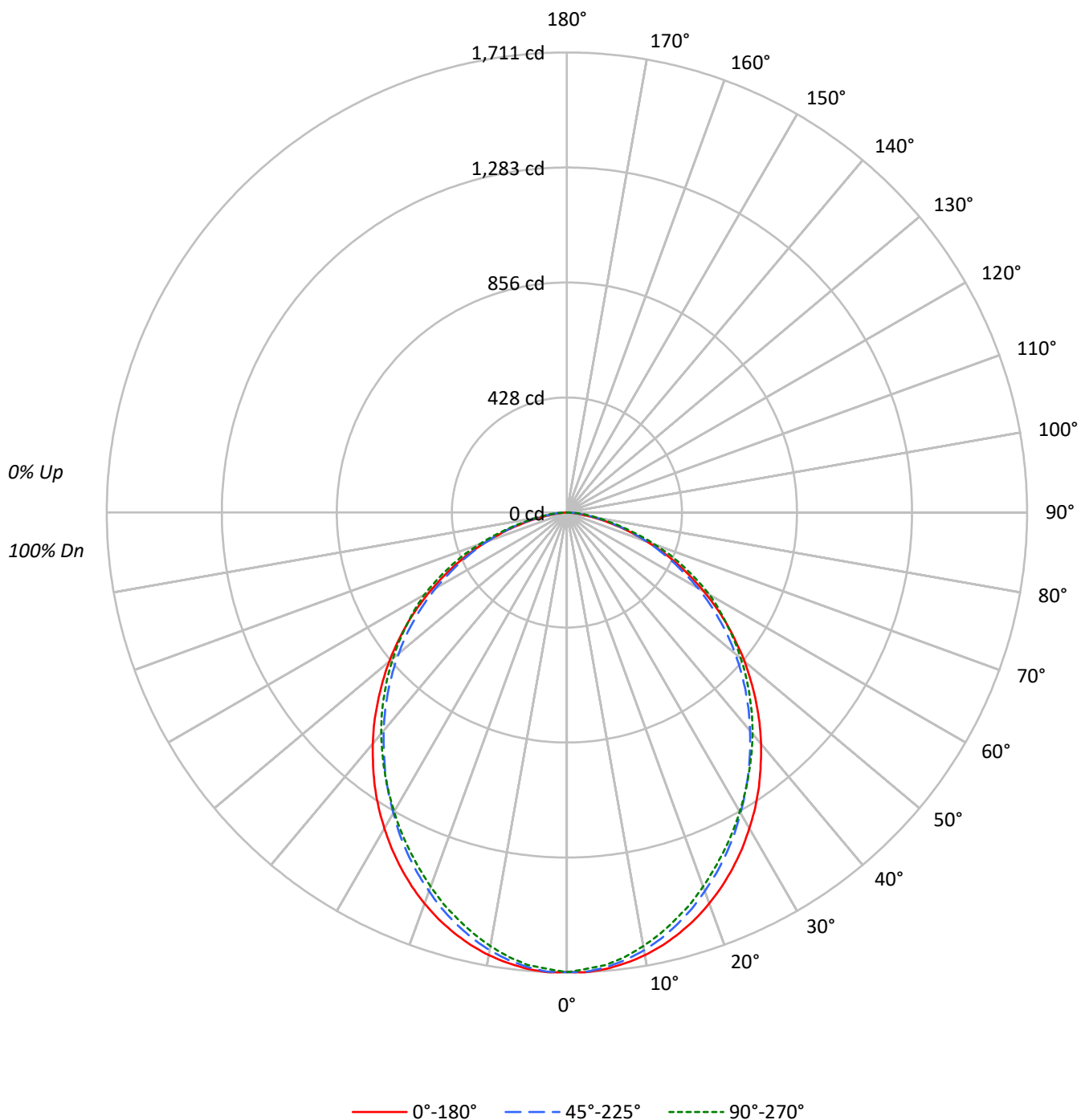
Lumens per Lamp: N/A
Luminaire Lumens: 4088.0 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 52.2
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	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		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°	4600	4600	4600
5°	4602	4583	4561
10°	4568	4518	4474
15°	4511	4416	4362
20°	4432	4292	4240
25°	4333	4159	4114
30°	4216	4010	3992
35°	4090	3869	3878
40°	3945	3721	3772
45°	3784	3576	3655
50°	3612	3420	3533
55°	3412	3239	3405
60°	3166	3031	3292
65°	2882	2763	3064
70°	2501	2485	2736
75°	1996	2119	2255
80°	1381	1641	1795
85°	775	1257	1636

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3784 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.4	3.9
10°-20°	447.2	10.9
20°-30°	649.4	15.9
30°-40°	747.2	18.3
40°-50°	739.3	18.1
50°-60°	632.9	15.5
60°-70°	446.6	10.9
70°-80°	217.5	5.3
80°-90°	47.6	1.2
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°	1257.0	30.7
0°-40°	2004.1	49.0
0°-60°	3376.4	82.6
0°-90°	4088.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4088.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1709	1709	1709	1709	1709	
5°	1704	1702	1697	1685	1689	162
15°	1619	1610	1585	1564	1566	456
25°	1460	1438	1401	1382	1386	672
35°	1245	1215	1178	1173	1181	778
45°	994	967	940	950	960	767
55°	727	702	690	710	726	649
65°	453	433	434	467	481	448
75°	192	184	204	217	217	207
85°	25	31	41	49	53	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1709.4	1709.4	1709.4	1709.4	1709.4
2.5°	1711.3	1712.7	1709.4	1696.5	1698.7
5°	1703.5	1702.0	1696.8	1684.7	1688.6
7.5°	1689.9	1687.5	1678.2	1663.8	1666.3
10°	1671.8	1667.1	1653.3	1635.3	1637.4
12.5°	1648.4	1642.0	1622.6	1602.1	1604.3
15°	1619.2	1610.0	1585.3	1563.7	1565.8
17.5°	1585.6	1575.1	1545.1	1521.7	1526.4
20°	1547.6	1533.4	1498.8	1476.5	1480.6
22.5°	1505.7	1487.9	1451.6	1430.0	1433.2
25°	1459.5	1437.9	1400.6	1382.1	1385.7
27.5°	1409.8	1386.0	1347.6	1330.5	1336.4
30°	1356.8	1331.1	1290.4	1278.5	1284.7
32.5°	1302.2	1275.0	1234.9	1226.9	1233.2
35°	1245.0	1215.3	1177.8	1172.7	1180.6
37.5°	1183.7	1155.1	1118.0	1120.1	1127.5
40°	1123.1	1093.4	1059.4	1064.9	1073.9
42.5°	1059.8	1031.3	1000.2	1008.1	1018.6
45°	994.2	966.9	939.6	950.3	960.3
47.5°	928.1	901.1	878.7	891.5	903.5
50°	862.7	836.7	816.9	832.6	843.8
52.5°	793.8	769.1	754.8	771.3	785.9
55°	727.2	702.0	690.4	710.2	725.7
57.5°	658.3	637.6	627.5	651.0	670.4
60°	588.3	567.9	563.2	593.2	611.7
62.5°	520.0	499.9	497.5	532.9	546.3
65°	452.6	432.9	433.9	466.7	481.2
67.5°	385.9	367.8	375.5	407.3	417.0
70°	317.9	301.8	315.9	342.8	347.7
72.5°	254.1	240.5	259.9	278.9	280.2
75°	192.0	183.7	203.8	216.6	216.9
77.5°	137.5	133.1	151.8	160.6	161.2
80°	89.1	91.2	105.9	112.9	115.8
82.5°	52.0	56.6	68.3	79.6	82.8
85°	25.1	30.6	40.7	49.4	53.0
87.5°	8.7	12.4	17.0	18.9	18.4
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	16.10	17.69	16.47	18.00	18.31	16.25	17.84	16.62	18.15	18.47
	3H	17.55	18.98	17.93	19.30	19.67	17.90	19.33	18.28	19.66	20.02
	4H	17.98	19.32	18.38	19.67	20.05	18.41	19.75	18.81	20.10	20.47
	6H	18.20	19.44	18.61	19.81	20.20	18.71	19.95	19.12	20.31	20.71
	8H	18.24	19.42	18.66	19.81	20.21	18.80	19.98	19.23	20.37	20.77
	12H	18.24	19.37	18.67	19.75	20.18	18.86	19.99	19.29	20.38	20.80
4H	2H	16.62	17.95	17.01	18.30	18.68	16.74	18.08	17.14	18.43	18.80
	3H	18.25	19.37	18.66	19.77	20.17	18.59	19.71	19.00	20.11	20.51
	4H	18.77	19.77	19.20	20.18	20.62	19.21	20.22	19.65	20.63	21.07
	6H	19.07	19.94	19.52	20.38	20.84	19.62	20.49	20.07	20.93	21.39
	8H	19.12	19.94	19.59	20.38	20.85	19.74	20.56	20.21	21.00	21.47
	12H	19.15	19.88	19.63	20.35	20.82	19.84	20.57	20.32	21.05	21.52
8H	4H	18.99	19.81	19.45	20.25	20.72	19.40	20.21	19.86	20.66	21.12
	6H	19.36	20.04	19.86	20.53	21.00	19.88	20.56	20.38	21.05	21.52
	8H	19.45	20.05	19.96	20.56	21.05	20.06	20.67	20.57	21.18	21.66
	12H	19.50	20.04	20.01	20.53	21.09	20.22	20.76	20.73	21.25	21.81
12H	4H	19.00	19.74	19.49	20.21	20.68	19.40	20.13	19.88	20.61	21.08
	6H	19.38	19.99	19.89	20.50	20.98	19.89	20.49	20.40	21.00	21.49
	8H	19.51	20.05	20.02	20.54	21.10	20.11	20.65	20.62	21.14	21.70