

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: P1498118

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498118
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-STD-50-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

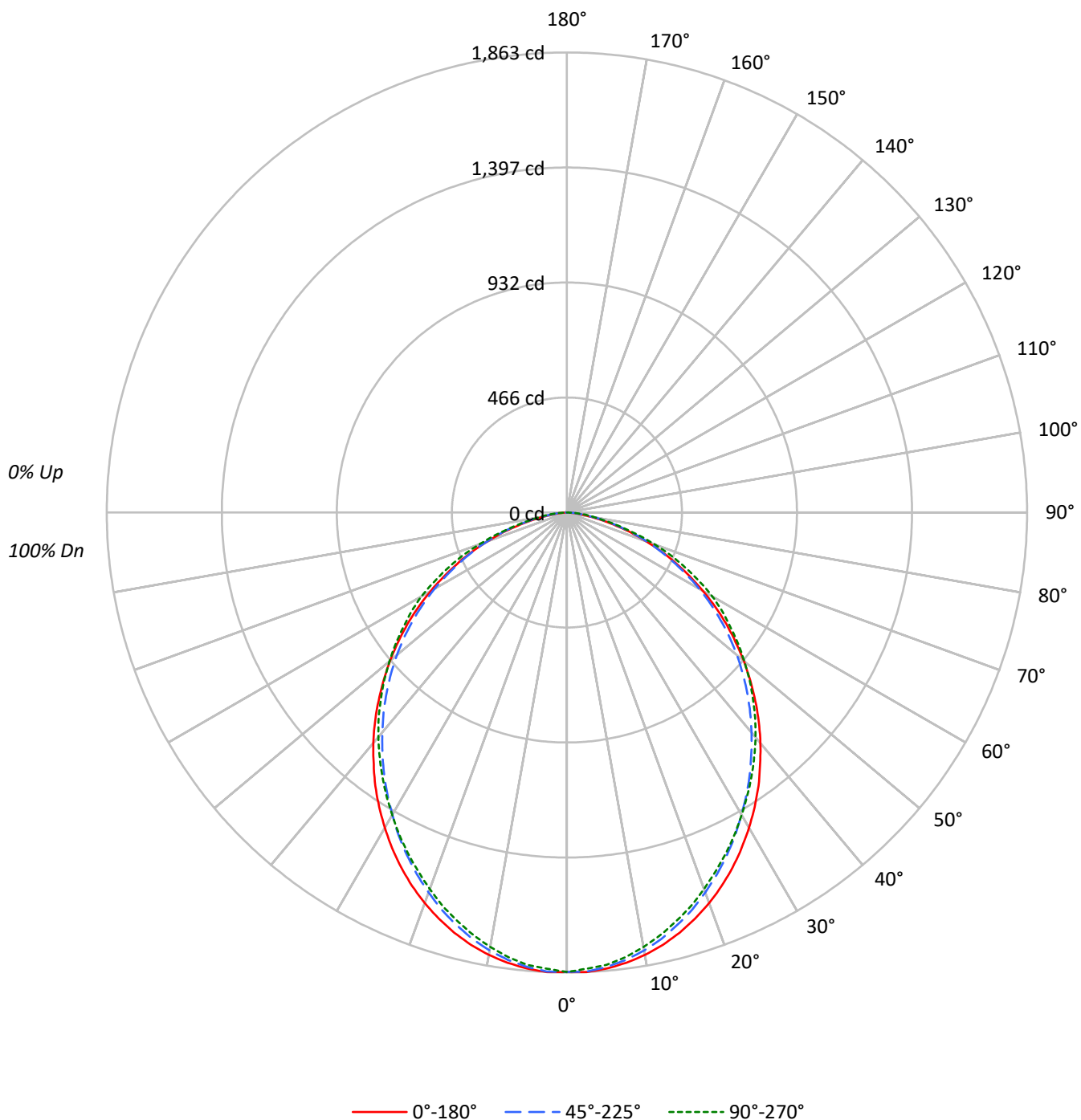
Lumens per Lamp: N/A
Luminaire Lumens: 4470.0 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	84	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°	5007	5007	5007
5°	5008	4990	4968
10°	4971	4921	4881
15°	4908	4817	4771
20°	4820	4688	4648
25°	4711	4548	4521
30°	4580	4391	4396
35°	4442	4242	4280
40°	4282	4084	4173
45°	4104	3928	4051
50°	3914	3761	3925
55°	3696	3563	3788
60°	3425	3335	3660
65°	3113	3035	3378
70°	2698	2714	2974
75°	2149	2282	2383
80°	1481	1725	1835
85°	827	1291	1655

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4104 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.7	3.9
10°-20°	487.8	10.9
20°-30°	709.9	15.9
30°-40°	818.4	18.3
40°-50°	811.4	18.2
50°-60°	695.5	15.6
60°-70°	489.1	10.9
70°-80°	233.8	5.2
80°-90°	49.4	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°	1372.4	30.7
0°-40°	2190.9	49.0
0°-60°	3697.7	82.7
0°-90°	4470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4470.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1861	1861	1861	1861	1861	
5°	1854	1852	1847	1835	1839	176
15°	1762	1753	1729	1709	1712	496
25°	1587	1566	1532	1517	1523	730
35°	1352	1324	1291	1292	1303	845
45°	1078	1054	1032	1051	1064	832
55°	788	765	759	788	807	703
65°	489	471	477	514	530	484
75°	207	199	220	230	229	223
85°	27	32	42	50	54	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1860.6	1860.6	1860.6	1860.6	1860.6
2.5°	1862.7	1864.1	1860.6	1847.1	1849.0
5°	1854.0	1852.3	1847.2	1835.1	1839.2
7.5°	1839.0	1836.7	1827.5	1813.5	1816.1
10°	1819.3	1814.6	1801.1	1783.7	1786.3
12.5°	1793.7	1787.6	1768.8	1749.4	1752.3
15°	1761.6	1752.8	1729.0	1709.2	1712.4
17.5°	1724.8	1715.0	1686.6	1665.2	1671.3
20°	1683.1	1669.7	1637.1	1617.3	1623.0
22.5°	1637.1	1620.2	1586.5	1567.8	1572.8
25°	1586.7	1566.0	1531.8	1516.9	1522.7
27.5°	1532.1	1509.4	1475.0	1461.8	1470.0
30°	1474.1	1449.8	1413.0	1405.8	1414.8
32.5°	1414.5	1388.9	1352.9	1350.3	1359.4
35°	1352.1	1323.9	1291.3	1291.9	1303.0
37.5°	1285.0	1258.3	1226.4	1235.1	1245.8
40°	1219.0	1191.2	1162.7	1175.3	1187.8
42.5°	1150.2	1123.7	1098.2	1113.6	1128.0
45°	1078.4	1053.5	1032.2	1050.6	1064.5
47.5°	1006.4	981.6	965.7	986.4	1002.4
50°	935.0	911.5	898.3	921.9	937.6
52.5°	860.4	837.9	830.1	854.8	873.9
55°	787.7	764.7	759.4	787.5	807.3
57.5°	712.6	694.6	690.3	721.9	746.1
60°	636.4	618.4	619.7	657.8	680.1
62.5°	562.2	544.3	547.1	589.9	605.1
65°	488.9	471.2	476.6	514.1	530.5
67.5°	416.8	400.2	411.9	446.6	457.3
70°	342.9	328.3	344.9	373.5	378.0
72.5°	273.9	261.4	282.3	300.9	301.0
75°	206.7	199.3	219.5	230.5	229.2
77.5°	147.8	143.9	161.8	168.2	167.2
80°	95.6	97.8	111.3	115.9	118.4
82.5°	55.7	60.3	70.6	81.5	84.1
85°	26.8	32.3	41.8	50.3	53.6
87.5°	9.3	13.0	17.3	19.2	18.7
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	16.38	17.96	16.74	18.28	18.59	16.67	18.25	17.03	18.56	18.88
	3H	17.82	19.24	18.20	19.57	19.93	18.28	19.70	18.65	20.03	20.39
	4H	18.24	19.58	18.64	19.93	20.31	18.75	20.09	19.15	20.43	20.81
	6H	18.46	19.70	18.87	20.06	20.45	19.01	20.25	19.42	20.61	21.00
	8H	18.49	19.67	18.92	20.06	20.46	19.08	20.26	19.51	20.65	21.05
	12H	18.50	19.62	18.93	20.01	20.44	19.13	20.26	19.56	20.65	21.07
4H	2H	16.91	18.24	17.30	18.59	18.97	17.14	18.48	17.54	18.83	19.20
	3H	18.53	19.64	18.94	20.04	20.44	18.95	20.07	19.36	20.46	20.87
	4H	19.04	20.04	19.47	20.45	20.89	19.53	20.54	19.96	20.95	21.39
	6H	19.33	20.21	19.79	20.65	21.10	19.89	20.76	20.35	21.21	21.66
	8H	19.39	20.20	19.85	20.64	21.11	20.00	20.81	20.46	21.26	21.72
	12H	19.41	20.14	19.89	20.61	21.08	20.08	20.81	20.56	21.29	21.76
8H	4H	19.26	20.07	19.72	20.52	20.98	19.70	20.52	20.17	20.96	21.43
	6H	19.62	20.29	20.11	20.78	21.26	20.14	20.81	20.63	21.30	21.78
	8H	19.70	20.30	20.21	20.81	21.30	20.29	20.90	20.80	21.40	21.89
	12H	19.75	20.28	20.26	20.77	21.34	20.43	20.96	20.94	21.46	22.02
12H	4H	19.27	20.00	19.75	20.47	20.94	19.70	20.43	20.18	20.91	21.38
	6H	19.63	20.24	20.14	20.74	21.23	20.14	20.74	20.65	21.25	21.74
	8H	19.76	20.29	20.26	20.78	21.34	20.34	20.87	20.84	21.36	21.92