

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: P1498109

Luminaire Tested: MAE-G-2-120-1HI-STD-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498109
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-40-90-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

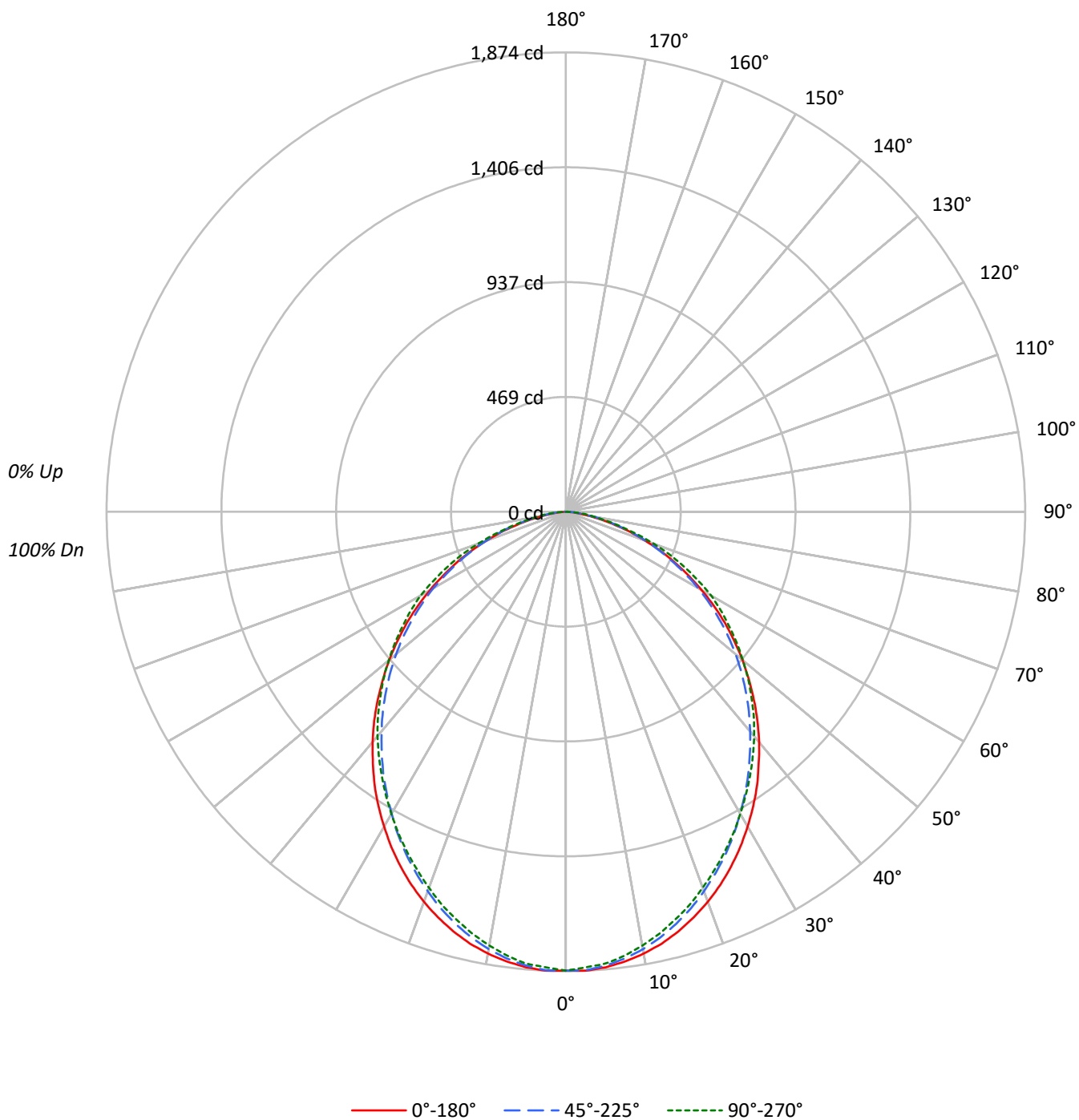
Lumens per Lamp: N/A
Luminaire Lumens: 4497.0 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	5037	5037	5037
5°	5038	5020	4998
10°	5001	4951	4910
15°	4937	4846	4799
20°	4849	4716	4676
25°	4739	4576	4548
30°	4608	4417	4423
35°	4468	4268	4306
40°	4308	4109	4198
45°	4129	3952	4075
50°	3938	3783	3949
55°	3718	3584	3810
60°	3446	3356	3682
65°	3132	3053	3399
70°	2714	2730	2991
75°	2162	2297	2399
80°	1491	1736	1846
85°	831	1300	1667

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4129 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.8	3.9
10°-20°	490.8	10.9
20°-30°	714.2	15.9
30°-40°	823.4	18.3
40°-50°	816.2	18.2
50°-60°	699.7	15.6
60°-70°	492.0	10.9
70°-80°	235.2	5.2
80°-90°	49.7	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°	1380.7	30.7
0°-40°	2204.1	49.0
0°-60°	3720.1	82.7
0°-90°	4497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4497.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1872	1872	1872	1872	1872	
5°	1865	1864	1858	1846	1850	177
15°	1772	1763	1740	1720	1723	499
25°	1596	1575	1541	1526	1532	735
35°	1360	1332	1299	1300	1311	850
45°	1085	1060	1038	1057	1071	837
55°	792	769	764	792	812	707
65°	492	474	479	517	534	487
75°	208	200	221	232	231	225
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°	1871.8	1871.8	1871.8	1871.8	1871.8
2.5°	1874.0	1875.4	1871.8	1858.2	1860.3
5°	1865.2	1863.6	1858.4	1846.3	1850.3
7.5°	1850.2	1847.8	1838.5	1824.4	1827.2
10°	1830.3	1825.6	1812.0	1794.5	1797.0
12.5°	1804.6	1798.4	1779.4	1759.9	1762.8
15°	1772.3	1763.4	1739.5	1719.6	1722.6
17.5°	1735.2	1725.4	1696.8	1675.2	1681.4
20°	1693.2	1679.7	1647.0	1627.1	1632.7
22.5°	1647.1	1630.0	1596.1	1577.3	1582.3
25°	1596.2	1575.3	1541.1	1526.1	1531.8
27.5°	1541.4	1518.6	1483.9	1470.5	1479.0
30°	1483.0	1458.5	1421.6	1414.3	1423.4
32.5°	1423.1	1397.3	1361.1	1358.5	1367.6
35°	1360.2	1331.9	1299.1	1299.6	1310.8
37.5°	1292.8	1265.9	1233.7	1242.5	1253.3
40°	1226.4	1198.3	1169.7	1182.5	1195.0
42.5°	1157.1	1130.4	1104.9	1120.3	1134.8
45°	1084.9	1059.9	1038.4	1056.9	1070.9
47.5°	1012.5	987.6	971.5	992.3	1008.4
50°	940.7	917.1	903.6	927.5	943.2
52.5°	865.6	843.0	835.2	859.9	879.2
55°	792.4	769.3	764.0	792.2	812.2
57.5°	717.0	698.8	694.6	726.2	750.6
60°	640.2	622.2	623.5	661.6	684.2
62.5°	565.5	547.6	550.4	593.4	608.7
65°	491.9	474.0	479.4	517.2	533.8
67.5°	419.3	402.6	414.3	449.4	460.0
70°	345.0	330.3	347.0	375.7	380.2
72.5°	275.6	263.0	283.9	302.8	302.8
75°	207.9	200.5	220.9	232.0	230.7
77.5°	148.7	144.8	162.8	169.2	168.3
80°	96.2	98.4	112.0	116.6	119.1
82.5°	56.0	60.6	71.1	82.0	84.6
85°	26.9	32.4	42.1	50.5	54.0
87.5°	9.4	13.1	17.4	19.3	18.8
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	16.40	17.98	16.77	18.30	18.61	16.69	18.27	17.05	18.58	18.90
	3H	17.84	19.26	18.22	19.59	19.95	18.30	19.72	18.67	20.05	20.41
	4H	18.26	19.60	18.66	19.95	20.33	18.77	20.11	19.17	20.45	20.83
	6H	18.48	19.72	18.89	20.08	20.47	19.03	20.27	19.44	20.63	21.02
	8H	18.51	19.69	18.94	20.08	20.48	19.10	20.28	19.53	20.67	21.07
	12H	18.52	19.65	18.95	20.03	20.46	19.16	20.28	19.59	20.67	21.10
4H	2H	16.93	18.26	17.32	18.61	18.99	17.16	18.50	17.56	18.85	19.22
	3H	18.55	19.66	18.96	20.06	20.46	18.97	20.09	19.38	20.49	20.89
	4H	19.06	20.06	19.49	20.48	20.91	19.55	20.56	19.99	20.97	21.41
	6H	19.35	20.23	19.81	20.67	21.13	19.91	20.78	20.37	21.23	21.68
	8H	19.41	20.22	19.87	20.66	21.13	20.02	20.83	20.48	21.28	21.74
	12H	19.43	20.16	19.91	20.63	21.10	20.10	20.83	20.58	21.31	21.78
8H	4H	19.28	20.09	19.74	20.54	21.00	19.73	20.54	20.19	20.98	21.45
	6H	19.64	20.31	20.13	20.80	21.28	20.16	20.83	20.65	21.32	21.80
	8H	19.72	20.32	20.23	20.83	21.32	20.31	20.92	20.82	21.43	21.91
	12H	19.77	20.30	20.28	20.80	21.36	20.45	20.98	20.96	21.48	22.04
12H	4H	19.29	20.02	19.77	20.49	20.96	19.72	20.45	20.21	20.93	21.40
	6H	19.65	20.26	20.16	20.77	21.25	20.16	20.77	20.67	21.27	21.76
	8H	19.78	20.31	20.28	20.80	21.36	20.36	20.89	20.87	21.38	21.95