

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: P1498250

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498250
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-HI-35-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

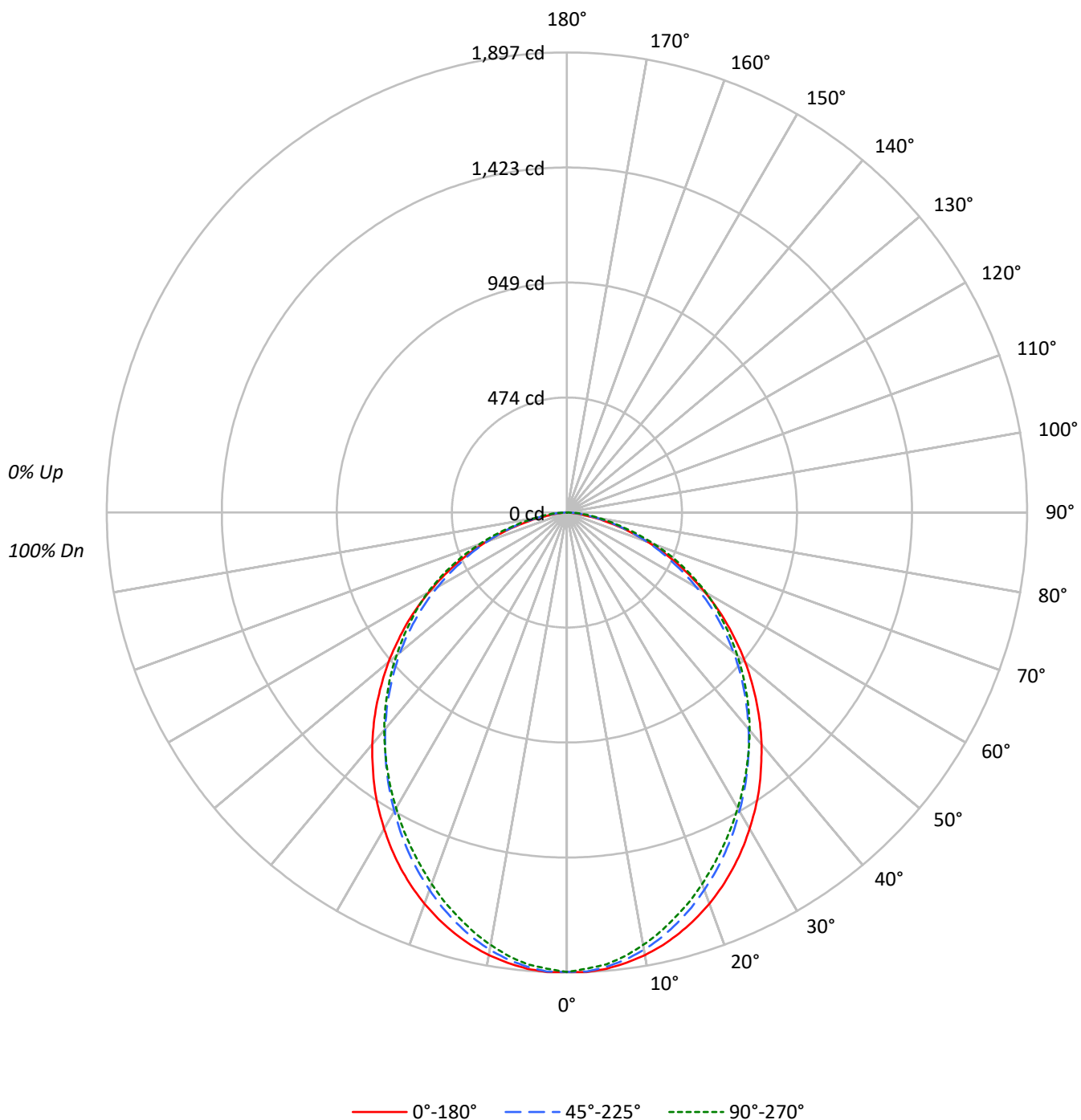
Lumens per Lamp: N/A
Luminaire Lumens: 4511.0 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 62.6
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	99	96	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	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	60	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°	5098	5098	5098
5°	5101	5080	5052
10°	5064	5003	4948
15°	5002	4885	4813
20°	4916	4741	4667
25°	4809	4588	4518
30°	4681	4419	4374
35°	4543	4258	4241
40°	4384	4092	4116
45°	4208	3927	3979
50°	4019	3754	3837
55°	3799	3553	3693
60°	3531	3323	3573
65°	3218	3035	3353
70°	2796	2747	3037
75°	2237	2373	2568
80°	1554	1881	2108
85°	871	1467	1936

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4208 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.7	3.9
10°-20°	494.5	11.0
20°-30°	716.7	15.9
30°-40°	823.0	18.2
40°-50°	812.9	18.0
50°-60°	695.0	15.4
60°-70°	492.0	10.9
70°-80°	244.0	5.4
80°-90°	55.1	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°	1389.0	30.8
0°-40°	2212.0	49.0
0°-60°	3719.9	82.5
0°-90°	4511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4511.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1895	1895	1895	1895	1895	
5°	1888	1887	1880	1866	1870	179
15°	1795	1784	1754	1726	1728	506
25°	1620	1593	1545	1519	1522	745
35°	1383	1346	1296	1285	1291	864
45°	1106	1070	1032	1037	1046	853
55°	810	778	757	773	787	723
65°	505	480	477	511	527	500
75°	215	204	228	245	247	232
85°	28	35	48	58	63	40
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1894.6	1894.6	1894.6	1894.6	1894.6
2.5°	1896.7	1898.4	1894.6	1879.8	1882.7
5°	1888.2	1886.7	1880.5	1865.9	1870.2
7.5°	1873.3	1870.4	1859.3	1841.8	1844.5
10°	1853.4	1847.7	1830.9	1808.8	1810.8
12.5°	1827.6	1819.7	1795.9	1770.4	1772.3
15°	1795.4	1784.3	1753.5	1726.0	1727.7
17.5°	1758.5	1745.2	1707.8	1677.8	1682.1
20°	1716.7	1699.0	1655.6	1626.6	1629.8
22.5°	1670.5	1648.5	1602.6	1573.9	1575.8
25°	1619.6	1593.0	1545.2	1519.4	1521.8
27.5°	1564.9	1535.4	1485.6	1461.5	1465.9
30°	1506.4	1474.5	1422.0	1403.0	1407.8
32.5°	1446.2	1412.2	1359.9	1345.1	1350.0
35°	1383.0	1345.8	1296.2	1284.6	1291.0
37.5°	1315.3	1279.3	1230.0	1225.8	1231.5
40°	1248.1	1210.9	1164.8	1164.3	1171.6
42.5°	1178.1	1142.0	1099.2	1101.3	1110.1
45°	1105.7	1070.5	1032.0	1037.4	1045.5
47.5°	1032.5	998.0	964.9	972.4	982.7
50°	960.0	926.4	896.6	907.3	916.5
52.5°	883.5	851.7	828.1	840.0	852.9
55°	809.8	777.5	757.3	773.0	787.2
57.5°	733.4	706.0	688.1	708.5	726.9
60°	656.1	629.2	617.5	645.7	663.9
62.5°	580.1	553.9	546.1	581.0	595.3
65°	505.4	479.8	476.6	511.4	526.6
67.5°	430.9	407.8	413.2	448.1	458.8
70°	355.4	334.7	349.1	379.6	386.0
72.5°	284.2	267.0	288.6	311.7	314.4
75°	215.2	204.2	228.2	245.1	247.0
77.5°	154.2	148.4	171.6	184.5	186.9
80°	100.3	102.4	121.4	132.0	136.0
82.5°	58.6	64.2	79.2	93.4	97.6
85°	28.2	34.9	47.5	58.3	62.7
87.5°	9.7	14.1	19.9	22.1	21.5
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	16.48	18.06	16.84	18.37	18.69	16.50	18.08	16.86	18.39	18.71
	3H	17.94	19.36	18.31	19.69	20.05	18.19	19.61	18.56	19.94	20.30
	4H	18.37	19.71	18.77	20.06	20.43	18.73	20.07	19.13	20.41	20.79
	6H	18.60	19.83	19.01	20.20	20.59	19.07	20.31	19.48	20.67	21.06
	8H	18.63	19.81	19.06	20.20	20.60	19.17	20.35	19.60	20.74	21.14
	12H	18.64	19.77	19.07	20.15	20.58	19.25	20.38	19.68	20.76	21.19
4H	2H	16.98	18.32	17.38	18.66	19.04	16.99	18.33	17.39	18.68	19.06
	3H	18.63	19.74	19.04	20.14	20.54	18.89	20.01	19.30	20.40	20.81
	4H	19.15	20.15	19.58	20.57	21.00	19.55	20.56	19.98	20.97	21.41
	6H	19.45	20.33	19.91	20.77	21.23	20.00	20.88	20.46	21.32	21.78
	8H	19.51	20.33	19.97	20.77	21.24	20.15	20.96	20.61	21.41	21.87
	12H	19.54	20.27	20.02	20.75	21.22	20.26	20.99	20.74	21.47	21.94
8H	4H	19.38	20.20	19.84	20.64	21.11	19.74	20.56	20.20	21.00	21.47
	6H	19.76	20.43	20.25	20.92	21.40	20.28	20.96	20.78	21.45	21.92
	8H	19.85	20.46	20.36	20.96	21.45	20.49	21.09	21.00	21.60	22.09
	12H	19.90	20.44	20.41	20.93	21.49	20.67	21.20	21.17	21.69	22.26
12H	4H	19.39	20.13	19.87	20.60	21.07	19.74	20.48	20.22	20.95	21.42
	6H	19.78	20.39	20.29	20.90	21.39	20.29	20.90	20.80	21.41	21.89
	8H	19.92	20.45	20.43	20.94	21.51	20.54	21.08	21.05	21.57	22.13