

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: P1498256

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498256
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-40-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

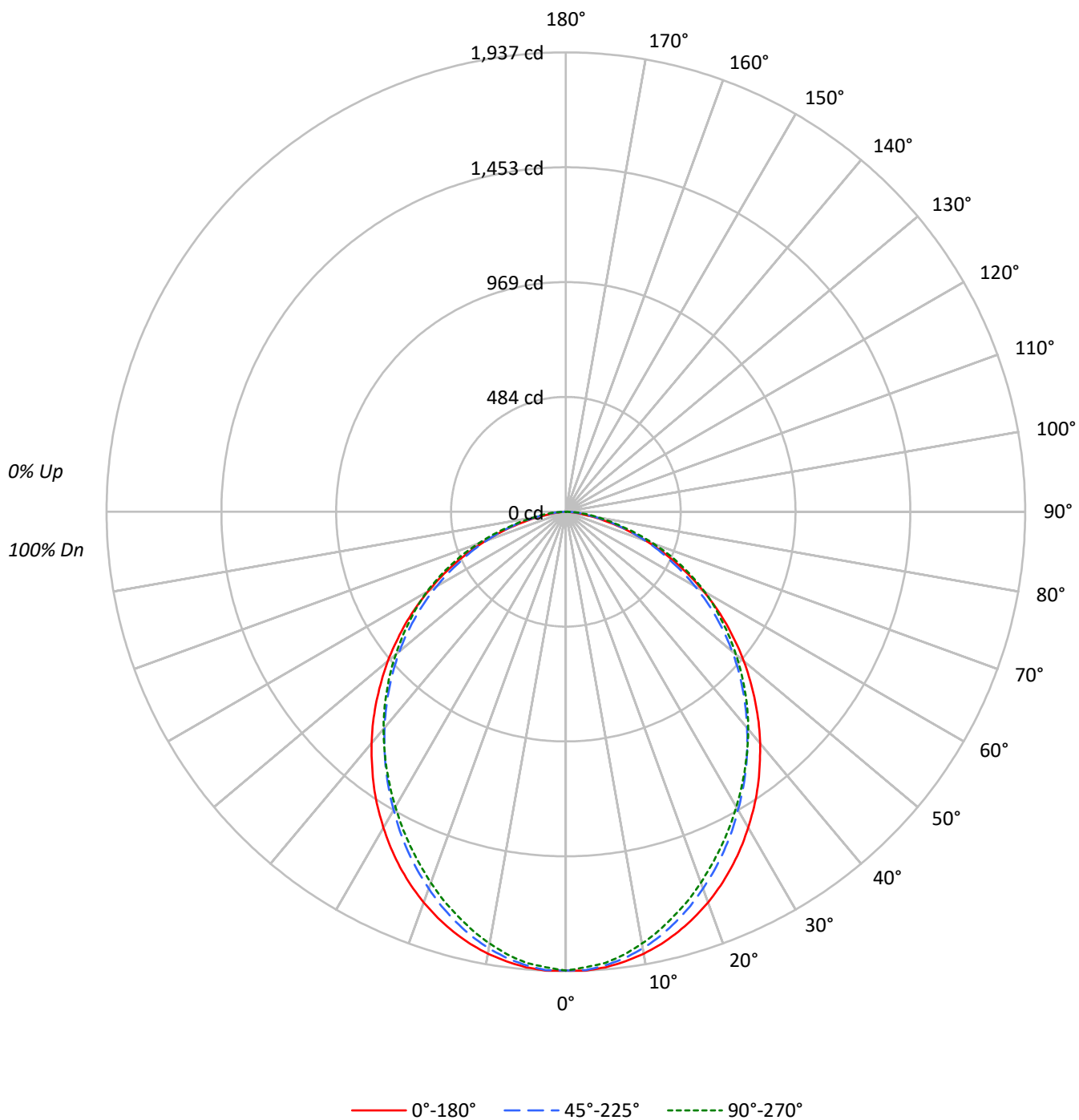
Lumens per Lamp: N/A
Luminaire Lumens: 4606.1 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	5206	5206	5206
5°	5208	5187	5159
10°	5171	5108	5052
15°	5107	4988	4915
20°	5020	4841	4766
25°	4910	4685	4614
30°	4780	4511	4466
35°	4639	4348	4330
40°	4477	4178	4202
45°	4297	4010	4062
50°	4104	3833	3918
55°	3879	3628	3771
60°	3605	3394	3648
65°	3286	3099	3424
70°	2855	2804	3101
75°	2284	2421	2622
80°	1585	1920	2152
85°	892	1497	1979

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4297 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.5	3.9
10°-20°	505.0	11.0
20°-30°	731.8	15.9
30°-40°	840.3	18.2
40°-50°	830.0	18.0
50°-60°	709.7	15.4
60°-70°	502.4	10.9
70°-80°	249.1	5.4
80°-90°	56.2	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°	1418.2	30.8
0°-40°	2258.6	49.0
0°-60°	3798.3	82.5
0°-90°	4606.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4606.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1934	1934	1934	1934	1934	
5°	1928	1926	1920	1905	1910	183
15°	1833	1822	1790	1762	1764	517
25°	1654	1627	1578	1552	1554	761
35°	1412	1374	1324	1312	1318	882
45°	1129	1093	1054	1059	1068	871
55°	827	794	773	789	804	738
65°	516	490	487	522	538	510
75°	220	208	233	250	252	237
85°	29	36	48	60	64	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1934.5	1934.5	1934.5	1934.5	1934.5
2.5°	1936.6	1938.4	1934.5	1919.4	1922.4
5°	1928.0	1926.4	1920.1	1905.2	1909.7
7.5°	1912.7	1909.8	1898.5	1880.5	1883.3
10°	1892.4	1886.6	1869.5	1846.9	1849.0
12.5°	1866.1	1858.0	1833.7	1807.7	1809.6
15°	1833.3	1821.8	1790.5	1762.4	1764.1
17.5°	1795.5	1782.0	1743.8	1713.2	1717.5
20°	1752.9	1734.8	1690.5	1660.8	1664.2
22.5°	1705.7	1683.2	1636.3	1607.0	1609.0
25°	1653.8	1626.6	1577.8	1551.5	1553.9
27.5°	1597.9	1567.8	1516.9	1492.2	1496.8
30°	1538.2	1505.6	1451.9	1432.6	1437.4
32.5°	1476.7	1441.8	1388.6	1373.5	1378.4
35°	1412.1	1374.2	1323.5	1311.7	1318.2
37.5°	1343.0	1306.3	1255.8	1251.6	1257.4
40°	1274.4	1236.4	1189.3	1188.7	1196.3
42.5°	1203.0	1166.1	1122.3	1124.5	1133.4
45°	1129.0	1093.1	1053.7	1059.2	1067.5
47.5°	1054.2	1019.0	985.2	992.9	1003.4
50°	980.2	946.0	915.5	926.5	935.8
52.5°	902.1	869.6	845.5	857.6	870.8
55°	826.9	793.9	773.3	789.2	803.8
57.5°	748.9	720.9	702.7	723.4	742.2
60°	669.9	642.4	630.6	659.2	677.9
62.5°	592.4	565.6	557.5	593.2	607.7
65°	516.0	490.0	486.7	522.1	537.7
67.5°	440.0	416.4	421.9	457.6	468.5
70°	362.9	341.7	356.4	387.6	394.1
72.5°	290.2	272.6	294.7	318.3	321.1
75°	219.7	208.5	232.9	250.2	252.2
77.5°	157.4	151.6	175.2	188.4	190.8
80°	102.3	104.6	123.9	134.8	138.9
82.5°	59.8	65.5	80.9	95.4	99.7
85°	28.9	35.7	48.5	59.5	64.1
87.5°	9.9	14.5	20.4	22.7	22.0
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	16.55	18.13	16.91	18.45	18.76	16.57	18.15	16.93	18.46	18.78
	3H	18.01	19.43	18.39	19.76	20.12	18.26	19.68	18.63	20.01	20.37
	4H	18.44	19.78	18.84	20.13	20.51	18.80	20.14	19.20	20.49	20.86
	6H	18.67	19.91	19.08	20.27	20.66	19.14	20.38	19.55	20.74	21.14
	8H	18.70	19.89	19.13	20.28	20.68	19.25	20.43	19.67	20.82	21.22
	12H	18.71	19.84	19.14	20.22	20.65	19.32	20.45	19.75	20.83	21.26
4H	2H	17.05	18.39	17.45	18.74	19.11	17.06	18.40	17.46	18.75	19.13
	3H	18.70	19.81	19.11	20.21	20.61	18.96	20.08	19.37	20.48	20.88
	4H	19.22	20.22	19.65	20.64	21.08	19.62	20.63	20.06	21.04	21.48
	6H	19.53	20.40	19.98	20.84	21.30	20.07	20.95	20.53	21.39	21.85
	8H	19.58	20.40	20.05	20.85	21.31	20.22	21.04	20.68	21.48	21.95
	12H	19.61	20.34	20.09	20.82	21.29	20.33	21.07	20.81	21.54	22.01
8H	4H	19.45	20.27	19.91	20.71	21.18	19.81	20.63	20.28	21.08	21.54
	6H	19.83	20.51	20.32	20.99	21.47	20.35	21.03	20.85	21.52	22.00
	8H	19.92	20.53	20.43	21.04	21.52	20.56	21.17	21.07	21.67	22.16
	12H	19.98	20.51	20.48	21.00	21.57	20.74	21.28	21.25	21.77	22.33
12H	4H	19.47	20.20	19.95	20.68	21.15	19.82	20.55	20.30	21.03	21.50
	6H	19.85	20.46	20.37	20.97	21.46	20.36	20.97	20.87	21.48	21.97
	8H	19.99	20.53	20.50	21.02	21.58	20.61	21.15	21.12	21.64	22.20