

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: P1498242

Luminaire Tested: MAE-G-2-120-1STD-HI-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498242
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-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

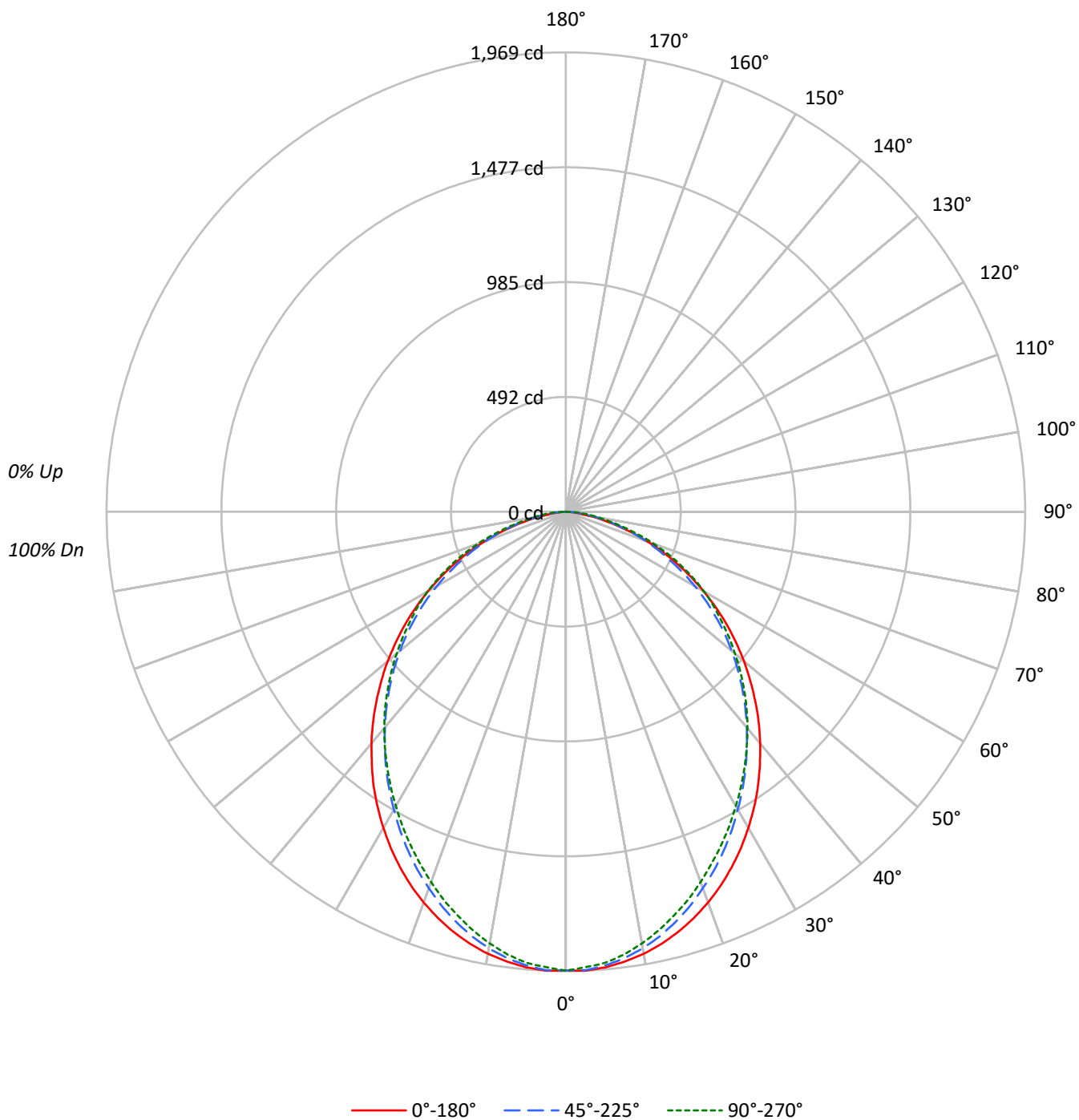
Lumens per Lamp: N/A
Luminaire Lumens: 4677.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 59.9
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	98	95	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	64		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°	5292	5292	5292
5°	5294	5272	5243
10°	5257	5192	5133
15°	5192	5068	4990
20°	5104	4917	4836
25°	4993	4756	4679
30°	4860	4580	4528
35°	4718	4412	4387
40°	4553	4239	4255
45°	4371	4067	4112
50°	4175	3887	3963
55°	3948	3678	3813
60°	3670	3441	3690
65°	3345	3143	3470
70°	2908	2849	3153
75°	2328	2468	2684
80°	1619	1967	2218
85°	908	1541	2044

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4371 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.5	3.9
10°-20°	513.0	11.0
20°-30°	743.1	15.9
30°-40°	852.9	18.2
40°-50°	842.1	18.0
50°-60°	719.7	15.4
60°-70°	509.9	10.9
70°-80°	254.0	5.4
80°-90°	57.8	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°	1440.6	30.8
0°-40°	2293.5	49.0
0°-60°	3855.3	82.4
0°-90°	4677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4677.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1966	1966	1966	1966	1966	
5°	1960	1958	1952	1936	1941	186
15°	1864	1852	1819	1790	1791	525
25°	1682	1653	1602	1574	1576	774
35°	1436	1397	1343	1330	1336	897
45°	1148	1111	1069	1073	1080	886
55°	842	807	784	799	813	751
65°	525	498	494	529	545	520
75°	224	212	237	256	258	242
85°	29	36	50	61	66	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1966.4	1966.4	1966.4	1966.4	1966.4
2.5°	1968.7	1970.5	1966.4	1951.0	1954.1
5°	1959.8	1958.3	1951.8	1936.4	1940.9
7.5°	1944.3	1941.3	1929.6	1911.0	1913.8
10°	1923.8	1917.8	1900.0	1876.5	1878.6
12.5°	1897.0	1888.6	1863.4	1836.1	1838.1
15°	1863.7	1851.8	1819.1	1789.6	1791.2
17.5°	1825.5	1811.3	1771.3	1739.2	1743.5
20°	1782.3	1763.3	1717.0	1685.8	1688.8
22.5°	1734.3	1710.7	1661.7	1630.8	1632.4
25°	1681.6	1653.2	1601.9	1574.0	1576.0
27.5°	1624.9	1593.5	1540.0	1513.5	1517.7
30°	1564.2	1530.2	1473.8	1452.6	1457.1
32.5°	1501.8	1465.5	1409.3	1392.5	1396.8
35°	1436.1	1396.6	1343.0	1329.5	1335.5
37.5°	1365.9	1327.5	1274.2	1268.3	1273.6
40°	1296.2	1256.5	1206.6	1204.4	1211.3
42.5°	1223.7	1185.1	1138.4	1139.0	1147.4
45°	1148.5	1110.8	1068.8	1072.7	1080.4
47.5°	1072.6	1035.6	999.2	1005.4	1015.2
50°	997.3	961.4	928.4	937.9	946.6
52.5°	917.9	883.7	857.3	868.0	880.6
55°	841.5	806.8	784.0	798.7	812.7
57.5°	762.3	732.6	712.4	731.9	750.4
60°	681.9	653.0	639.3	667.1	685.6
62.5°	603.0	575.0	565.4	600.6	615.2
65°	525.4	498.0	493.6	529.2	544.9
67.5°	448.0	423.2	428.1	464.3	475.4
70°	369.6	347.3	362.1	393.8	400.7
72.5°	295.6	277.1	299.7	324.2	327.4
75°	223.9	212.1	237.4	255.6	258.1
77.5°	160.5	154.3	178.9	193.2	196.1
80°	104.5	106.7	126.9	138.7	143.1
82.5°	61.1	67.0	83.2	98.3	102.7
85°	29.4	36.5	49.9	61.3	66.2
87.5°	10.1	14.8	21.0	23.3	22.7
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	16.61	18.19	16.97	18.51	18.82	16.59	18.18	16.96	18.49	18.81
	3H	18.07	19.50	18.45	19.82	20.19	18.30	19.72	18.67	20.05	20.41
	4H	18.51	19.85	18.91	20.19	20.57	18.85	20.19	19.25	20.53	20.91
	6H	18.73	19.97	19.15	20.34	20.73	19.20	20.44	19.61	20.80	21.19
	8H	18.77	19.95	19.20	20.34	20.74	19.31	20.49	19.73	20.88	21.28
	12H	18.78	19.91	19.21	20.29	20.72	19.38	20.52	19.81	20.90	21.33
4H	2H	17.11	18.45	17.51	18.80	19.17	17.10	18.43	17.49	18.78	19.16
	3H	18.76	19.88	19.17	20.27	20.67	19.00	20.12	19.41	20.52	20.92
	4H	19.28	20.29	19.71	20.70	21.14	19.67	20.68	20.11	21.10	21.53
	6H	19.59	20.47	20.05	20.91	21.37	20.14	21.01	20.59	21.45	21.91
	8H	19.65	20.47	20.11	20.91	21.38	20.29	21.10	20.75	21.55	22.01
	12H	19.67	20.41	20.16	20.88	21.35	20.41	21.14	20.89	21.62	22.09
8H	4H	19.51	20.33	19.98	20.78	21.24	19.87	20.69	20.33	21.13	21.60
	6H	19.89	20.57	20.39	21.06	21.54	20.42	21.10	20.92	21.59	22.06
	8H	19.99	20.59	20.50	21.10	21.59	20.63	21.24	21.14	21.75	22.23
	12H	20.04	20.58	20.55	21.07	21.63	20.82	21.35	21.33	21.85	22.41
12H	4H	19.53	20.26	20.01	20.74	21.21	19.87	20.60	20.35	21.08	21.55
	6H	19.92	20.53	20.43	21.04	21.53	20.43	21.04	20.94	21.55	22.03
	8H	20.06	20.59	20.57	21.09	21.65	20.69	21.22	21.20	21.72	22.28