

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: P1498579

Luminaire Tested: MAE-G-2-120-2STD-STD-30-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2STD-STD-30-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

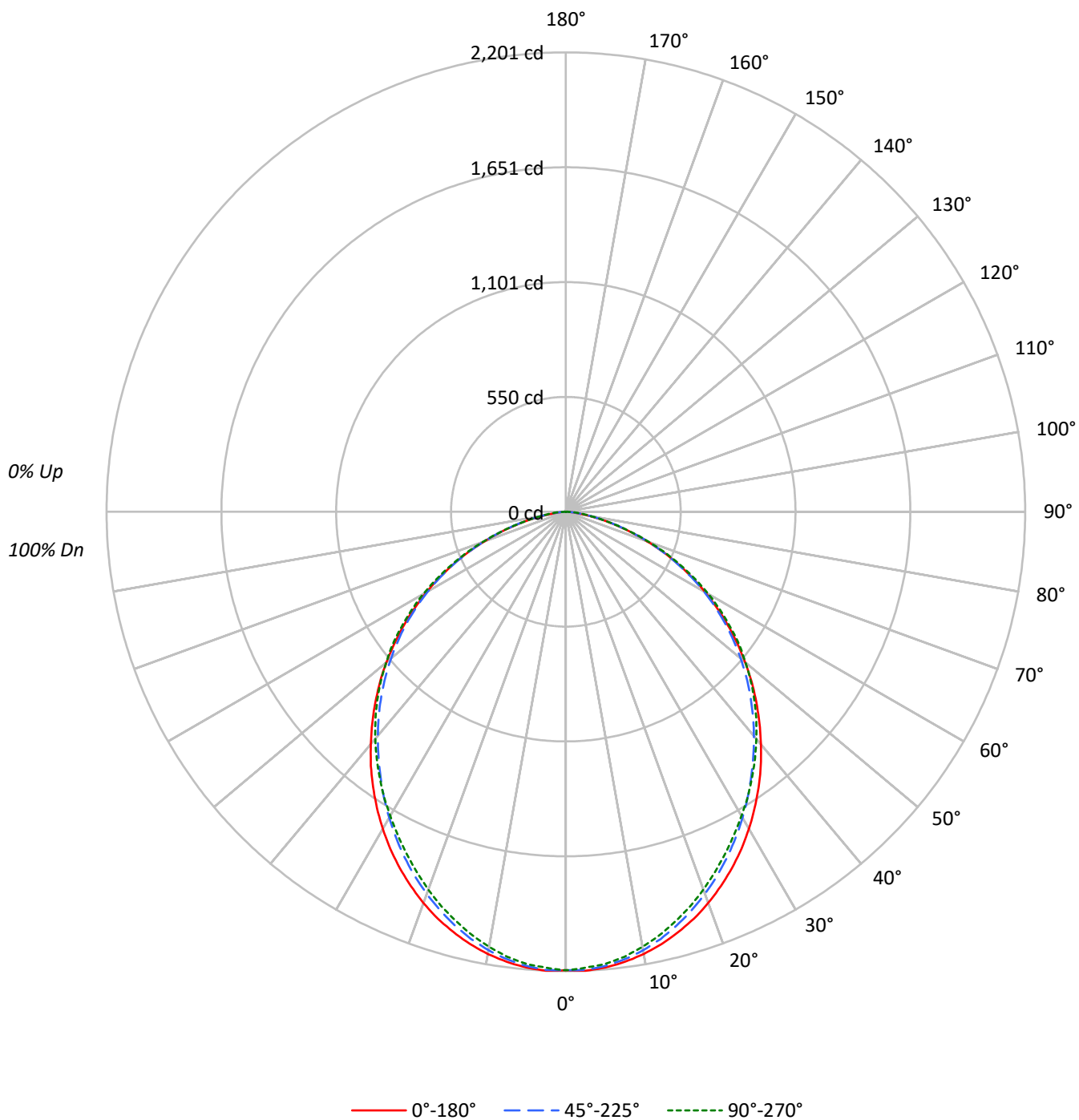
Lumens per Lamp: N/A
Luminaire Lumens: 5338.0 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 69.6
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	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	81	98	90	85	80	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		67	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	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5912	5912	5912
5°	5920	5901	5873
10°	5879	5829	5782
15°	5807	5717	5657
20°	5712	5579	5518
25°	5593	5426	5365
30°	5451	5260	5228
35°	5291	5087	5109
40°	5108	4925	4989
45°	4911	4759	4862
50°	4696	4579	4705
55°	4449	4367	4510
60°	4151	4104	4254
65°	3776	3756	3868
70°	3262	3287	3347
75°	2601	2678	2668
80°	1764	1880	1911
85°	911	1272	1636

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4911 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.6	3.9
10°-20°	578.1	10.8
20°-30°	844.7	15.8
30°-40°	978.9	18.3
40°-50°	976.5	18.3
50°-60°	840.7	15.7
60°-70°	587.4	11.0
70°-80°	273.1	5.1
80°-90°	52.0	1.0
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°	1629.4	30.5
0°-40°	2608.3	48.9
0°-60°	4425.4	82.9
0°-90°	5338.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5338.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2197	2197	2197	2197	2197	
5°	2192	2184	2184	2171	2174	208
15°	2084	2070	2052	2030	2031	588
25°	1884	1861	1828	1805	1807	867
35°	1611	1582	1549	1546	1555	1007
45°	1290	1264	1250	1265	1278	995
55°	948	928	931	952	961	847
65°	593	582	590	601	607	587
75°	250	247	258	257	257	269
85°	30	33	41	50	53	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2196.9	2196.9	2196.9	2196.9	2196.9
2.5°	2201.3	2194.4	2196.9	2186.9	2186.5
5°	2191.7	2184.0	2184.4	2171.3	2174.3
7.5°	2174.9	2165.8	2162.7	2147.9	2150.5
10°	2151.5	2140.2	2133.3	2114.9	2116.2
12.5°	2121.6	2108.7	2096.8	2075.5	2077.6
15°	2084.4	2069.7	2052.2	2029.6	2030.7
17.5°	2043.4	2027.3	2002.8	1978.8	1982.3
20°	1994.8	1977.0	1948.3	1923.3	1926.8
22.5°	1941.1	1920.8	1890.6	1865.8	1867.4
25°	1883.7	1861.1	1827.5	1804.7	1806.9
27.5°	1821.3	1796.1	1761.7	1741.0	1744.9
30°	1754.3	1727.7	1692.8	1677.0	1682.5
32.5°	1683.7	1656.4	1622.2	1612.9	1621.4
35°	1610.6	1581.5	1548.6	1545.8	1555.2
37.5°	1534.5	1505.9	1475.8	1479.2	1489.0
40°	1454.1	1426.9	1401.9	1409.4	1420.1
42.5°	1373.1	1346.8	1327.0	1338.9	1350.4
45°	1290.4	1264.4	1250.4	1265.4	1277.7
47.5°	1208.2	1182.0	1173.4	1190.9	1202.1
50°	1121.8	1098.1	1093.8	1113.1	1123.8
52.5°	1034.3	1012.4	1013.0	1033.9	1047.2
55°	948.2	927.6	930.8	951.6	961.2
57.5°	859.5	842.9	848.0	866.9	876.4
60°	771.2	755.8	762.5	780.9	790.5
62.5°	682.0	668.4	676.8	692.8	699.3
65°	593.0	582.3	589.9	600.9	607.4
67.5°	505.2	495.3	504.3	515.3	517.9
70°	414.6	407.9	417.8	424.9	425.4
72.5°	331.1	324.8	335.0	338.5	337.4
75°	250.2	246.6	257.6	256.9	256.6
77.5°	176.6	177.5	183.9	183.8	183.9
80°	113.8	117.8	121.3	123.7	123.3
82.5°	64.1	67.9	72.5	81.6	85.1
85°	29.5	33.4	41.2	49.5	53.0
87.5°	10.0	13.0	17.3	18.7	17.8
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	17.10	18.68	17.47	19.00	19.31	17.29	18.87	17.65	19.19	19.50
	3H	18.57	19.99	18.95	20.32	20.68	18.77	20.19	19.15	20.52	20.88
	4H	18.99	20.33	19.39	20.68	21.06	19.20	20.53	19.60	20.88	21.26
	6H	19.20	20.44	19.62	20.81	21.20	19.42	20.65	19.83	21.02	21.41
	8H	19.23	20.41	19.66	20.80	21.20	19.47	20.65	19.89	21.03	21.43
	12H	19.23	20.36	19.66	20.74	21.17	19.50	20.63	19.93	21.01	21.44
4H	2H	17.66	18.99	18.05	19.34	19.72	17.81	19.14	18.21	19.49	19.87
	3H	19.30	20.41	19.71	20.81	21.21	19.48	20.59	19.89	20.99	21.39
	4H	19.81	20.81	20.24	21.23	21.67	20.00	21.00	20.43	21.41	21.85
	6H	20.10	20.97	20.56	21.41	21.87	20.30	21.17	20.75	21.61	22.07
	8H	20.14	20.96	20.61	21.40	21.87	20.37	21.19	20.83	21.63	22.09
	12H	20.16	20.89	20.64	21.36	21.83	20.43	21.16	20.91	21.63	22.10
8H	4H	20.00	20.82	20.46	21.26	21.73	20.17	20.98	20.63	21.43	21.89
	6H	20.35	21.02	20.84	21.51	21.99	20.53	21.20	21.03	21.69	22.17
	8H	20.42	21.02	20.93	21.53	22.02	20.64	21.24	21.16	21.75	22.24
	12H	20.46	20.99	20.96	21.48	22.04	20.74	21.27	21.25	21.76	22.33
12H	4H	20.00	20.73	20.48	21.21	21.68	20.17	20.90	20.65	21.37	21.84
	6H	20.35	20.95	20.86	21.46	21.95	20.53	21.13	21.04	21.64	22.13
	8H	20.46	20.99	20.96	21.48	22.04	20.68	21.21	21.19	21.70	22.26