

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: P1498531

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498531
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-HI-30-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

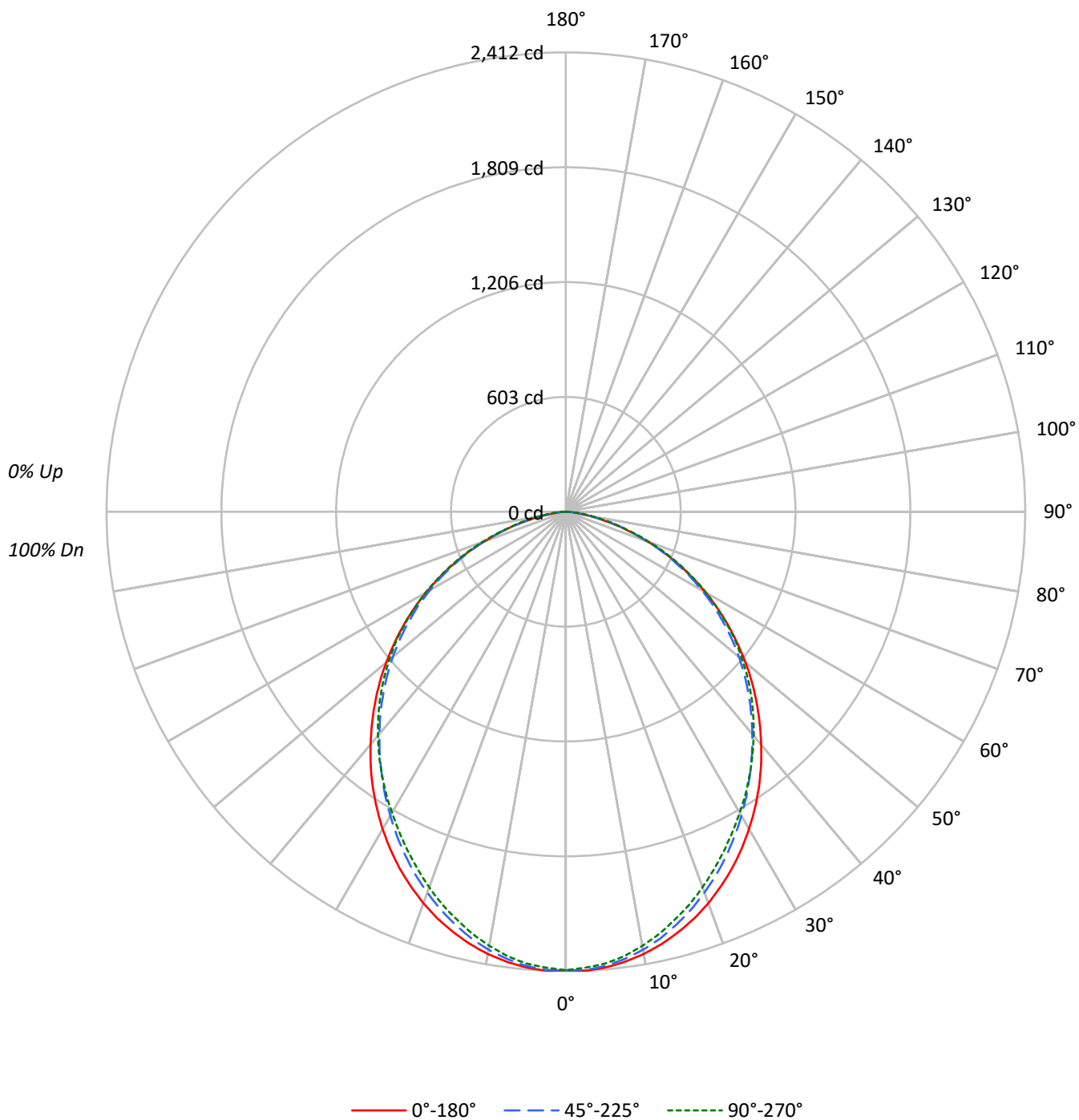
Lumens per Lamp: N/A
Luminaire Lumens: 5822.0 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 77.3
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	85	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	56		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	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	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6478	6478	6478
5°	6487	6464	6432
10°	6442	6381	6323
15°	6364	6251	6173
20°	6262	6092	6009
25°	6132	5918	5831
30°	5978	5729	5671
35°	5804	5535	5531
40°	5605	5351	5390
45°	5390	5165	5243
50°	5156	4965	5064
55°	4886	4730	4852
60°	4561	4443	4588
65°	4153	4071	4204
70°	3592	3585	3688
75°	2870	2961	3011
80°	1956	2140	2244
85°	1019	1497	1954

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5390 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.2	3.9
10°-20°	632.1	10.9
20°-30°	921.7	15.8
30°-40°	1066.0	18.3
40°-50°	1061.2	18.2
50°-60°	912.4	15.7
60°-70°	639.5	11.0
70°-80°	302.7	5.2
80°-90°	60.1	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°	1780.0	30.6
0°-40°	2846.0	48.9
0°-60°	4819.6	82.8
0°-90°	5822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5822.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2407	2407	2407	2407	2407	
5°	2402	2394	2393	2377	2381	228
15°	2284	2268	2244	2215	2216	644
25°	2065	2037	1993	1963	1964	951
35°	1767	1730	1685	1676	1684	1104
45°	1416	1382	1357	1367	1378	1093
55°	1041	1013	1008	1025	1034	930
65°	652	636	639	653	660	645
75°	276	270	285	288	290	297
85°	33	38	48	59	63	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2407.3	2407.3	2407.3	2407.3	2407.3
2.5°	2411.8	2405.3	2407.3	2395.2	2395.5
5°	2401.5	2393.7	2393.0	2377.4	2381.0
7.5°	2383.1	2373.5	2368.5	2350.4	2353.3
10°	2357.7	2345.4	2335.3	2312.7	2314.0
12.5°	2325.0	2310.5	2294.0	2267.6	2269.5
15°	2284.4	2267.6	2243.9	2215.3	2215.9
17.5°	2239.6	2220.6	2188.5	2157.7	2160.9
20°	2186.7	2165.2	2127.4	2095.5	2098.3
22.5°	2128.0	2103.3	2063.2	2031.2	2031.7
25°	2065.2	2037.3	1993.0	1962.9	1964.0
27.5°	1997.0	1966.0	1919.9	1892.1	1894.8
30°	1923.8	1890.7	1843.6	1820.9	1825.2
32.5°	1846.7	1812.3	1765.9	1749.9	1757.1
35°	1766.7	1730.0	1684.8	1675.6	1683.7
37.5°	1683.3	1647.1	1604.6	1602.0	1610.4
40°	1595.5	1560.5	1523.3	1525.2	1534.4
42.5°	1506.8	1472.8	1441.1	1447.6	1457.7
45°	1416.4	1382.3	1357.1	1367.1	1377.8
47.5°	1326.0	1292.1	1272.9	1285.7	1295.4
50°	1231.6	1200.3	1185.9	1200.8	1209.7
52.5°	1135.5	1106.3	1097.8	1114.5	1126.6
55°	1041.4	1013.4	1008.2	1025.4	1034.1
57.5°	944.2	920.8	918.3	934.5	943.5
60°	847.4	825.5	825.5	842.6	852.4
62.5°	749.6	729.8	732.9	749.1	756.7
65°	652.2	635.6	639.3	652.6	660.2
67.5°	555.7	540.7	547.6	562.3	566.1
70°	456.6	445.2	455.7	466.8	468.7
72.5°	364.8	354.8	367.5	375.3	375.6
75°	276.0	269.8	284.8	288.3	289.6
77.5°	195.3	194.7	205.8	209.8	211.6
80°	126.2	130.3	138.1	144.1	144.8
82.5°	71.4	76.2	84.4	96.3	100.9
85°	33.0	38.1	48.5	58.9	63.3
87.5°	11.2	14.9	20.5	22.2	21.2
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	17.42	19.00	17.79	19.32	19.63	17.51	19.09	17.87	19.40	19.72
	3H	18.89	20.32	19.27	20.64	21.01	19.03	20.45	19.41	20.78	21.14
	4H	19.32	20.66	19.72	21.01	21.39	19.49	20.83	19.89	21.17	21.55
	6H	19.54	20.77	19.95	21.14	21.53	19.74	20.98	20.15	21.34	21.73
	8H	19.57	20.75	19.99	21.14	21.54	19.80	20.98	20.23	21.37	21.77
	12H	19.57	20.70	20.00	21.08	21.51	19.85	20.98	20.28	21.36	21.79
4H	2H	17.96	19.30	18.36	19.65	20.03	18.03	19.37	18.43	19.72	20.10
	3H	19.61	20.73	20.02	21.13	21.53	19.75	20.86	20.16	21.26	21.66
	4H	20.13	21.13	20.56	21.55	21.99	20.30	21.30	20.73	21.72	22.16
	6H	20.42	21.30	20.88	21.74	22.20	20.64	21.52	21.10	21.96	22.42
	8H	20.47	21.29	20.93	21.73	22.20	20.74	21.55	21.20	21.99	22.46
	12H	20.49	21.22	20.97	21.69	22.16	20.81	21.53	21.29	22.01	22.48
8H	4H	20.33	21.14	20.79	21.59	22.05	20.48	21.30	20.95	21.74	22.21
	6H	20.68	21.36	21.18	21.85	22.32	20.89	21.57	21.39	22.06	22.53
	8H	20.76	21.36	21.27	21.87	22.36	21.03	21.63	21.54	22.14	22.63
	12H	20.80	21.33	21.31	21.82	22.39	21.14	21.68	21.65	22.17	22.73
12H	4H	20.33	21.06	20.81	21.54	22.01	20.48	21.21	20.96	21.69	22.16
	6H	20.69	21.29	21.20	21.80	22.29	20.89	21.50	21.41	22.01	22.49
	8H	20.80	21.33	21.31	21.83	22.39	21.07	21.60	21.58	22.09	22.65