

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: P1498606

Luminaire Tested: MAE-G-2-120-3HI-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3HI-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

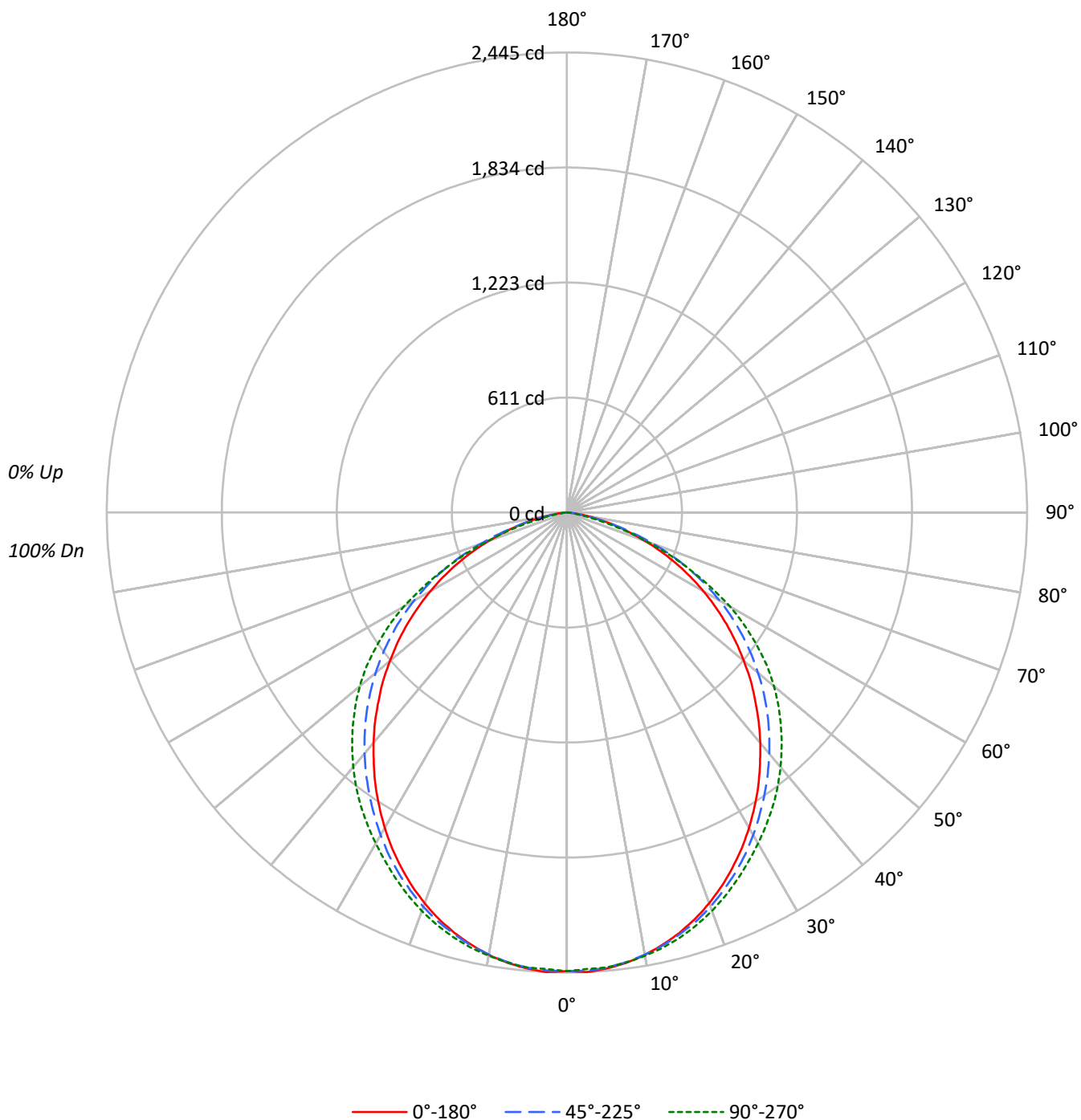
Lumens per Lamp: N/A
Luminaire Lumens: 6177.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 67.8
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	102	98	107	103	100	96	99	96	93		95	93	91		92
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
5	78	65	56	50	76	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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	36	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6558	6558	6558
5°	6573	6559	6556
10°	6524	6521	6536
15°	6441	6461	6509
20°	6329	6387	6453
25°	6182	6281	6380
30°	6014	6151	6312
35°	5825	6011	6264
40°	5614	5875	6202
45°	5385	5730	6122
50°	5135	5553	6013
55°	4859	5338	5782
60°	4510	5043	5395
65°	4073	4600	4621
70°	3476	3862	3592
75°	2729	2818	2209
80°	1782	1449	855
85°	852	574	454

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6122 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.2	3.7
10°-20°	653.6	10.6
20°-30°	972.0	15.7
30°-40°	1145.4	18.5
40°-50°	1161.4	18.8
50°-60°	1012.0	16.4
60°-70°	692.1	11.2
70°-80°	278.0	4.5
80°-90°	32.2	0.5
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°	1855.8	30.0
0°-40°	3001.3	48.6
0°-60°	5174.6	83.8
0°-90°	6177.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6177.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2437	2437	2437	2437	2437	
5°	2433	2418	2428	2425	2427	231
15°	2312	2302	2319	2329	2336	651
25°	2082	2083	2115	2131	2149	959
35°	1773	1781	1830	1875	1907	1108
45°	1415	1434	1506	1573	1609	1092
55°	1036	1058	1138	1209	1232	925
65°	640	668	722	728	726	632
75°	262	280	271	233	212	282
85°	28	25	19	16	15	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2437.2	2437.2	2437.2	2437.2	2437.2
2.5°	2445.0	2428.7	2437.2	2435.4	2429.2
5°	2433.2	2418.5	2428.1	2425.3	2426.9
7.5°	2414.0	2400.5	2410.6	2410.1	2412.9
10°	2387.6	2374.0	2386.5	2388.7	2392.1
12.5°	2352.6	2341.4	2356.6	2361.1	2367.8
15°	2312.0	2301.9	2319.3	2328.9	2336.3
17.5°	2264.7	2256.2	2278.7	2287.8	2297.9
20°	2210.0	2203.9	2230.3	2238.8	2253.4
22.5°	2149.2	2145.8	2173.4	2186.3	2203.3
25°	2082.1	2082.7	2115.3	2130.6	2148.6
27.5°	2011.7	2012.8	2050.1	2071.4	2090.5
30°	1935.6	1939.0	1979.6	2006.1	2031.4
32.5°	1855.0	1861.7	1905.7	1941.8	1970.0
35°	1773.3	1781.2	1829.7	1874.7	1906.8
37.5°	1684.9	1697.8	1752.5	1806.1	1839.2
40°	1598.1	1611.0	1672.4	1731.6	1765.5
42.5°	1508.5	1524.8	1590.2	1656.1	1688.7
45°	1415.0	1434.0	1505.7	1573.3	1608.8
47.5°	1325.3	1342.3	1417.7	1488.2	1524.8
50°	1226.7	1248.1	1326.4	1400.3	1436.4
52.5°	1132.6	1152.3	1232.9	1308.5	1341.1
55°	1035.7	1057.7	1137.7	1209.2	1232.4
57.5°	936.5	963.0	1040.2	1100.0	1121.9
60°	838.0	864.4	937.1	986.2	1002.5
62.5°	739.8	768.1	831.7	864.4	864.4
65°	639.6	668.3	722.4	728.0	725.7
67.5°	539.3	568.1	609.2	599.0	592.2
70°	441.8	466.6	490.8	472.2	456.5
72.5°	347.1	370.8	374.8	347.7	327.9
75°	262.5	280.1	271.0	232.8	212.5
77.5°	183.1	193.3	174.1	135.3	118.9
80°	115.0	119.4	93.5	65.9	55.2
82.5°	62.0	62.5	40.6	33.3	31.0
85°	27.6	24.8	18.6	16.3	14.7
87.5°	9.6	8.5	6.7	6.2	5.1
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	17.46	19.04	17.83	19.36	19.67	18.44	20.03	18.81	20.34	20.66
	3H	18.87	20.29	19.25	20.62	20.98	19.65	21.07	20.03	21.40	21.76
	4H	19.26	20.60	19.66	20.95	21.32	19.87	21.20	20.26	21.55	21.92
	6H	19.44	20.67	19.85	21.04	21.43	19.88	21.11	20.29	21.48	21.87
	8H	19.45	20.63	19.88	21.02	21.42	19.86	21.03	20.28	21.42	21.82
	12H	19.44	20.57	19.87	20.95	21.38	19.83	20.96	20.26	21.34	21.77
4H	2H	18.13	19.47	18.53	19.81	20.19	18.92	20.26	19.32	20.60	20.98
	3H	19.70	20.81	20.11	21.20	21.61	20.29	21.40	20.70	21.80	22.20
	4H	20.18	21.17	20.61	21.58	22.02	20.56	21.56	21.00	21.97	22.41
	6H	20.42	21.28	20.87	21.72	22.18	20.62	21.48	21.07	21.92	22.38
	8H	20.44	21.24	20.90	21.69	22.15	20.59	21.40	21.05	21.84	22.31
	12H	20.44	21.16	20.92	21.64	22.11	20.57	21.29	21.05	21.77	22.24
8H	4H	20.32	21.13	20.78	21.57	22.04	20.68	21.49	21.14	21.93	22.40
	6H	20.60	21.26	21.09	21.75	22.23	20.74	21.40	21.24	21.89	22.37
	8H	20.64	21.23	21.15	21.74	22.23	20.72	21.31	21.23	21.82	22.31
	12H	20.65	21.17	21.16	21.66	22.23	20.71	21.23	21.21	21.72	22.28
12H	4H	20.30	21.02	20.79	21.50	21.97	20.67	21.39	21.15	21.87	22.34
	6H	20.57	21.16	21.08	21.67	22.16	20.72	21.31	21.23	21.82	22.31
	8H	20.63	21.15	21.14	21.65	22.21	20.72	21.24	21.23	21.73	22.30