

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: P1498252

Luminaire Tested: MAE-G-2-120-1STD-HI-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498252
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-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

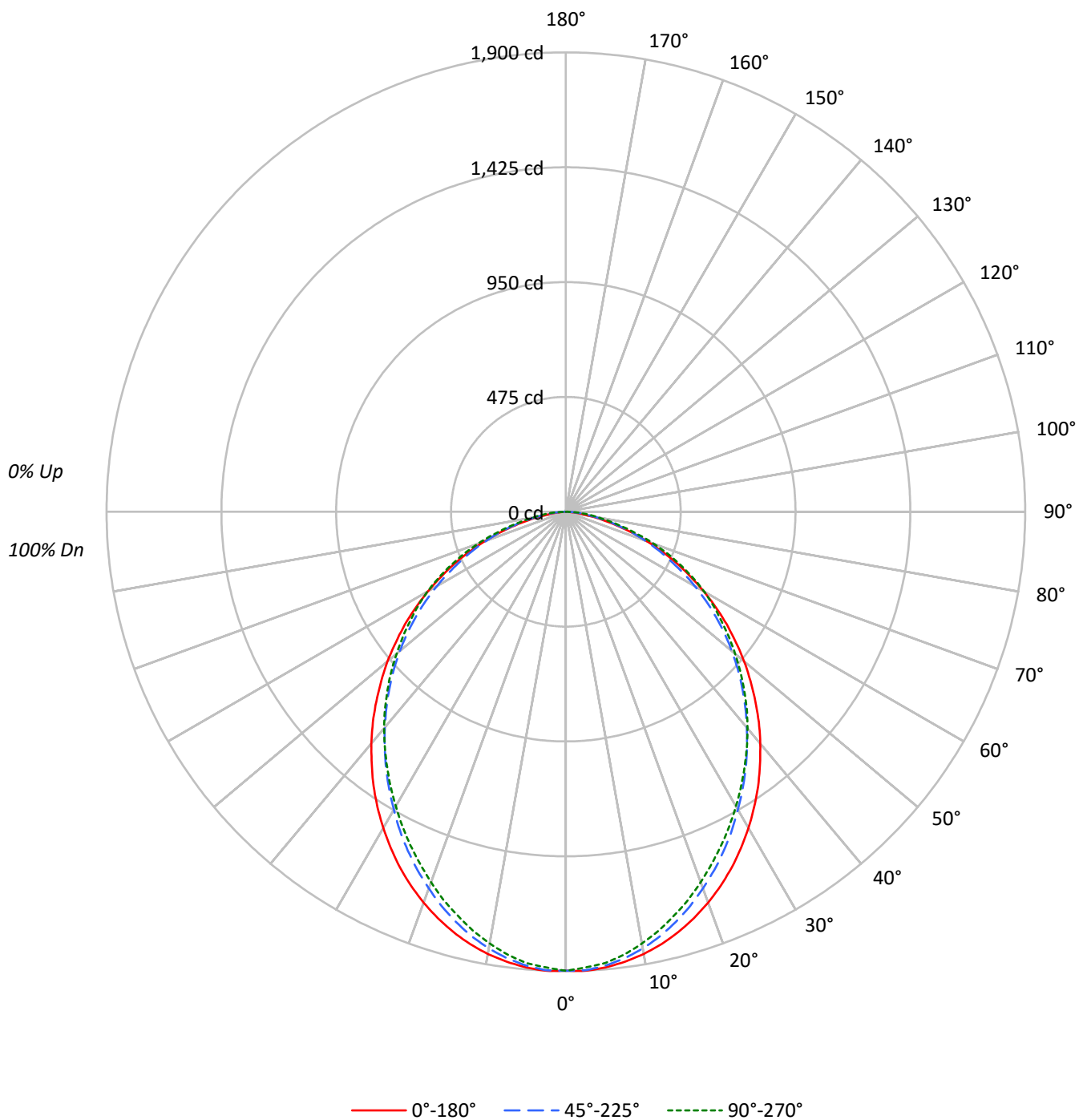
Lumens per Lamp: N/A
Luminaire Lumens: 4515.0 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	5108	5108	5108
5°	5111	5090	5061
10°	5075	5012	4955
15°	5012	4892	4817
20°	4927	4747	4669
25°	4820	4592	4517
30°	4692	4421	4371
35°	4554	4259	4235
40°	4396	4092	4108
45°	4220	3926	3969
50°	4031	3752	3825
55°	3811	3551	3681
60°	3543	3321	3562
65°	3230	3034	3349
70°	2807	2750	3044
75°	2248	2382	2590
80°	1562	1900	2142
85°	877	1488	1973

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4220 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.1	3.9
10°-20°	495.3	11.0
20°-30°	717.4	15.9
30°-40°	823.4	18.2
40°-50°	812.9	18.0
50°-60°	694.8	15.4
60°-70°	492.3	10.9
70°-80°	245.2	5.4
80°-90°	55.8	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°	1390.7	30.8
0°-40°	2214.1	49.0
0°-60°	3721.8	82.4
0°-90°	4515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4515.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1898	1898	1898	1898	1898	
5°	1892	1890	1884	1869	1874	179
15°	1799	1788	1756	1728	1729	507
25°	1623	1596	1546	1519	1521	747
35°	1386	1348	1296	1283	1289	866
45°	1109	1072	1032	1036	1043	855
55°	812	779	757	771	784	725
65°	507	481	476	511	526	502
75°	216	205	229	247	249	233
85°	28	35	48	59	64	40
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1898.3	1898.3	1898.3	1898.3	1898.3
2.5°	1900.4	1902.2	1898.3	1883.4	1886.5
5°	1892.0	1890.5	1884.2	1869.3	1873.7
7.5°	1877.0	1874.1	1862.8	1844.8	1847.6
10°	1857.2	1851.4	1834.1	1811.5	1813.5
12.5°	1831.4	1823.2	1798.8	1772.6	1774.4
15°	1799.2	1787.7	1756.1	1727.7	1729.2
17.5°	1762.2	1748.6	1710.1	1679.0	1683.1
20°	1720.5	1702.2	1657.6	1627.4	1630.3
22.5°	1674.3	1651.6	1604.2	1574.2	1575.8
25°	1623.4	1596.0	1546.5	1519.4	1521.4
27.5°	1568.6	1538.3	1486.6	1461.1	1465.0
30°	1510.1	1477.3	1422.7	1402.3	1406.6
32.5°	1449.8	1414.6	1360.5	1344.2	1348.5
35°	1386.4	1348.2	1296.5	1283.4	1289.2
37.5°	1318.7	1281.6	1230.1	1224.3	1229.4
40°	1251.4	1213.0	1164.8	1162.5	1169.3
42.5°	1181.4	1144.0	1099.0	1099.5	1107.6
45°	1108.8	1072.4	1031.7	1035.5	1042.9
47.5°	1035.4	999.7	964.6	970.5	980.0
50°	962.8	928.1	896.2	905.4	913.7
52.5°	886.1	853.1	827.6	837.9	850.1
55°	812.4	778.9	756.9	770.9	784.5
57.5°	735.9	707.3	687.7	706.6	724.4
60°	658.4	630.4	617.1	643.9	661.8
62.5°	582.2	555.0	545.8	579.7	593.9
65°	507.3	480.8	476.5	510.9	526.0
67.5°	432.6	408.7	413.3	448.2	458.9
70°	356.8	335.3	349.5	380.2	386.9
72.5°	285.4	267.6	289.3	313.0	316.0
75°	216.2	204.7	229.1	246.8	249.1
77.5°	154.9	149.0	172.7	186.4	189.3
80°	100.8	103.0	122.6	134.0	138.2
82.5°	59.0	64.7	80.3	94.9	99.2
85°	28.4	35.2	48.2	59.2	63.9
87.5°	9.7	14.3	20.3	22.6	21.9
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	16.49	18.07	16.85	18.39	18.70	16.47	18.06	16.84	18.37	18.68
	3H	17.95	19.38	18.33	19.70	20.06	18.17	19.60	18.55	19.93	20.29
	4H	18.39	19.73	18.78	20.07	20.45	18.72	20.06	19.12	20.41	20.79
	6H	18.61	19.85	19.02	20.22	20.61	19.07	20.31	19.49	20.68	21.07
	8H	18.65	19.83	19.07	20.22	20.62	19.18	20.37	19.61	20.75	21.15
	12H	18.66	19.79	19.09	20.17	20.60	19.26	20.39	19.69	20.78	21.20
4H	2H	16.99	18.33	17.38	18.67	19.05	16.97	18.31	17.37	18.66	19.04
	3H	18.64	19.75	19.05	20.15	20.55	18.88	20.00	19.29	20.40	20.80
	4H	19.16	20.16	19.59	20.58	21.02	19.55	20.56	19.98	20.97	21.41
	6H	19.47	20.34	19.92	20.79	21.24	20.01	20.89	20.47	21.33	21.79
	8H	19.53	20.35	19.99	20.79	21.26	20.16	20.98	20.63	21.43	21.89
	12H	19.55	20.29	20.03	20.76	21.23	20.28	21.02	20.76	21.49	21.96
8H	4H	19.39	20.21	19.85	20.65	21.12	19.75	20.57	20.21	21.01	21.47
	6H	19.77	20.45	20.27	20.94	21.42	20.30	20.98	20.79	21.47	21.94
	8H	19.87	20.47	20.38	20.98	21.47	20.51	21.12	21.02	21.62	22.11
	12H	19.92	20.46	20.43	20.95	21.51	20.70	21.23	21.20	21.72	22.29
12H	4H	19.41	20.14	19.89	20.62	21.09	19.75	20.48	20.23	20.96	21.43
	6H	19.80	20.41	20.31	20.92	21.40	20.31	20.92	20.82	21.43	21.91
	8H	19.94	20.47	20.44	20.96	21.53	20.57	21.10	21.07	21.59	22.16