

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: P1498573

Luminaire Tested: MAE-G-2-120-2STD-LO-50-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498573
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-LO-50-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

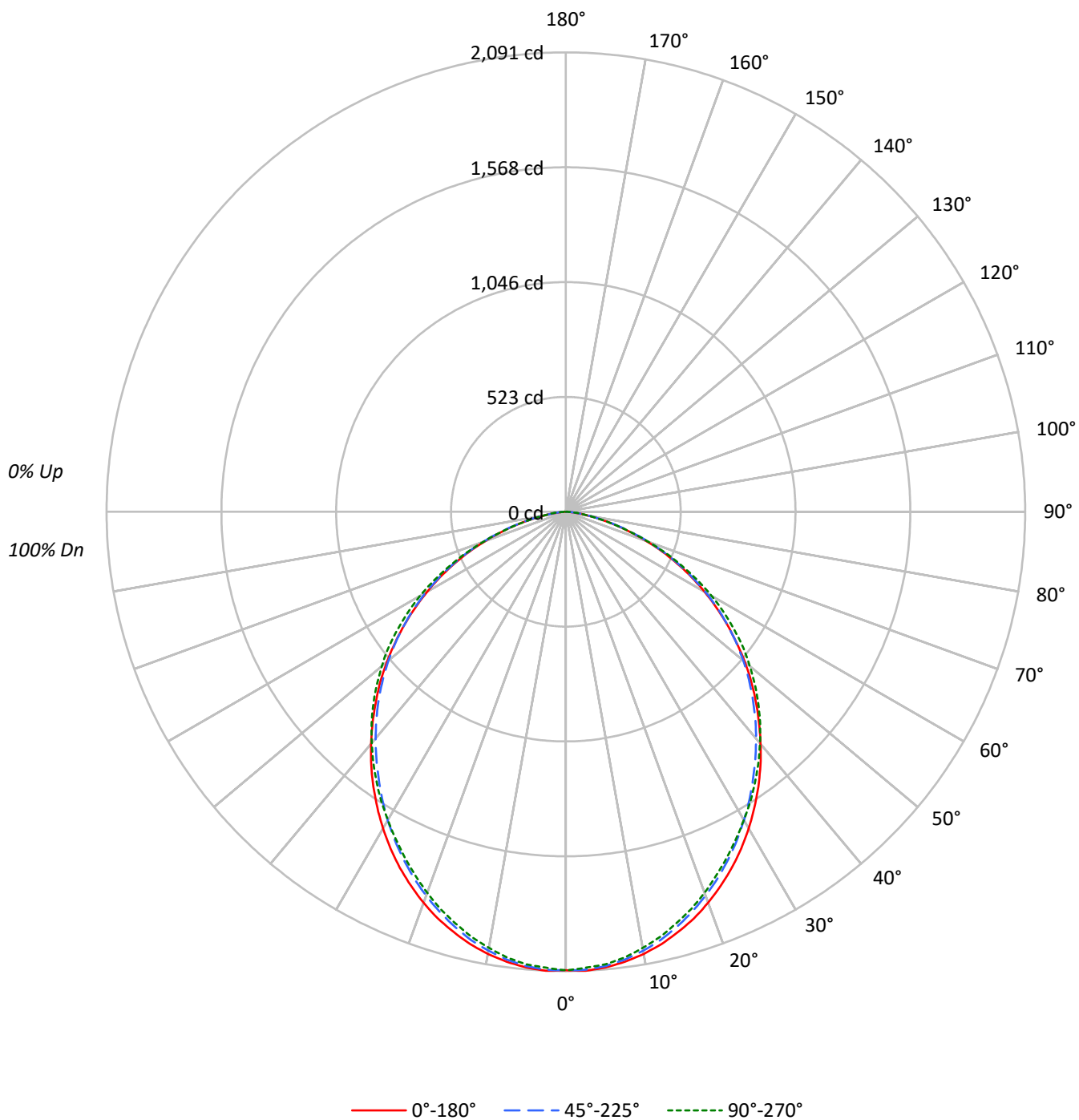
Lumens per Lamp: N/A
Luminaire Lumens: 5103.0 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 59.3
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	81	98	91	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°	5616	5616	5616
5°	5624	5607	5584
10°	5584	5544	5509
15°	5515	5447	5405
20°	5424	5325	5286
25°	5309	5188	5152
30°	5172	5038	5034
35°	5019	4880	4933
40°	4843	4732	4829
45°	4654	4580	4719
50°	4449	4413	4577
55°	4213	4213	4390
60°	3928	3963	4130
65°	3568	3622	3714
70°	3077	3143	3156
75°	2447	2512	2429
80°	1649	1692	1636
85°	840	1087	1362

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4719 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.4	3.8
10°-20°	550.8	10.8
20°-30°	807.0	15.8
30°-40°	937.8	18.4
40°-50°	938.0	18.4
50°-60°	809.1	15.9
60°-70°	562.8	11.0
70°-80°	255.5	5.0
80°-90°	45.8	0.9
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°	1554.1	30.5
0°-40°	2491.9	48.8
0°-60°	4239.0	83.1
0°-90°	5103.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5103.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2087	2087	2087	2087	2087	
5°	2082	2074	2076	2065	2067	197
15°	1980	1966	1955	1938	1940	558
25°	1788	1770	1747	1732	1735	823
35°	1528	1506	1486	1490	1502	955
45°	1223	1205	1203	1225	1240	944
55°	898	885	898	925	936	802
65°	560	556	569	578	583	555
75°	235	235	242	236	234	253
85°	27	30	35	42	44	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2086.9	2086.9	2086.9	2086.9	2086.9
2.5°	2091.3	2083.6	2086.9	2078.7	2077.5
5°	2082.0	2073.9	2075.7	2064.9	2067.3
7.5°	2066.0	2056.9	2056.1	2044.1	2046.6
10°	2043.6	2032.8	2029.1	2014.6	2016.0
12.5°	2015.1	2003.2	1996.0	1979.5	1982.1
15°	1979.5	1966.5	1955.1	1938.4	1940.0
17.5°	1940.4	1926.8	1909.9	1892.3	1896.3
20°	1894.0	1879.4	1859.5	1841.2	1845.8
22.5°	1842.8	1826.3	1806.0	1788.1	1791.2
25°	1788.1	1770.2	1747.3	1731.6	1735.3
27.5°	1728.6	1708.8	1685.9	1672.5	1678.0
30°	1664.6	1644.2	1621.3	1612.7	1620.2
32.5°	1597.3	1576.6	1554.9	1553.0	1563.5
35°	1527.7	1505.8	1485.5	1490.0	1501.7
37.5°	1455.4	1434.0	1416.9	1427.5	1439.7
40°	1378.8	1359.1	1347.1	1361.7	1374.7
42.5°	1301.7	1283.0	1276.1	1295.0	1309.0
45°	1223.0	1204.8	1203.4	1225.1	1240.0
47.5°	1145.2	1126.4	1130.0	1154.3	1167.7
50°	1062.8	1046.7	1054.1	1079.7	1093.2
52.5°	980.1	965.3	976.8	1003.9	1019.7
55°	897.9	884.6	898.0	924.6	935.7
57.5°	813.7	804.1	818.6	841.8	852.5
60°	729.9	721.2	736.3	757.4	767.3
62.5°	645.1	638.0	653.4	670.0	675.6
65°	560.4	556.1	568.9	577.7	583.3
67.5°	477.3	472.9	485.0	492.3	493.7
70°	391.1	389.6	399.5	402.3	401.1
72.5°	312.1	309.9	317.6	316.4	313.5
75°	235.4	234.8	241.6	235.8	233.6
77.5°	165.7	168.2	169.7	164.7	162.9
80°	106.4	110.4	109.2	107.4	105.6
82.5°	59.5	62.4	63.1	69.3	71.8
85°	27.2	29.9	35.2	41.5	44.1
87.5°	9.2	11.5	14.7	15.7	14.8
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	16.92	18.50	17.29	18.82	19.13	17.24	18.83	17.61	19.14	19.45
	3H	18.38	19.80	18.76	20.13	20.49	18.67	20.09	19.05	20.42	20.78
	4H	18.80	20.14	19.20	20.49	20.86	19.06	20.39	19.45	20.74	21.12
	6H	19.00	20.24	19.42	20.61	21.00	19.23	20.47	19.64	20.83	21.23
	8H	19.03	20.21	19.45	20.60	21.00	19.27	20.44	19.69	20.83	21.23
	12H	19.03	20.15	19.46	20.54	20.96	19.28	20.41	19.71	20.79	21.22
4H	2H	17.49	18.83	17.89	19.18	19.55	17.75	19.09	18.15	19.44	19.81
	3H	19.13	20.24	19.54	20.64	21.04	19.36	20.47	19.77	20.87	21.27
	4H	19.63	20.63	20.06	21.05	21.48	19.84	20.84	20.27	21.25	21.69
	6H	19.91	20.78	20.37	21.22	21.68	20.09	20.96	20.54	21.40	21.85
	8H	19.95	20.76	20.41	21.21	21.67	20.14	20.95	20.60	21.39	21.86
	12H	19.96	20.69	20.44	21.17	21.64	20.18	20.90	20.66	21.38	21.85
8H	4H	19.81	20.62	20.27	21.07	21.53	20.00	20.81	20.46	21.25	21.72
	6H	20.15	20.82	20.64	21.31	21.78	20.30	20.97	20.80	21.46	21.94
	8H	20.21	20.81	20.72	21.32	21.81	20.38	20.98	20.89	21.49	21.98
	12H	20.24	20.77	20.75	21.26	21.83	20.46	20.98	20.96	21.48	22.04
12H	4H	19.81	20.54	20.29	21.01	21.48	20.00	20.72	20.48	21.20	21.67
	6H	20.14	20.74	20.65	21.25	21.74	20.29	20.90	20.81	21.40	21.89
	8H	20.24	20.77	20.75	21.26	21.82	20.41	20.94	20.92	21.43	22.00