

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: P1498798

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498798
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-2-120-3STD-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

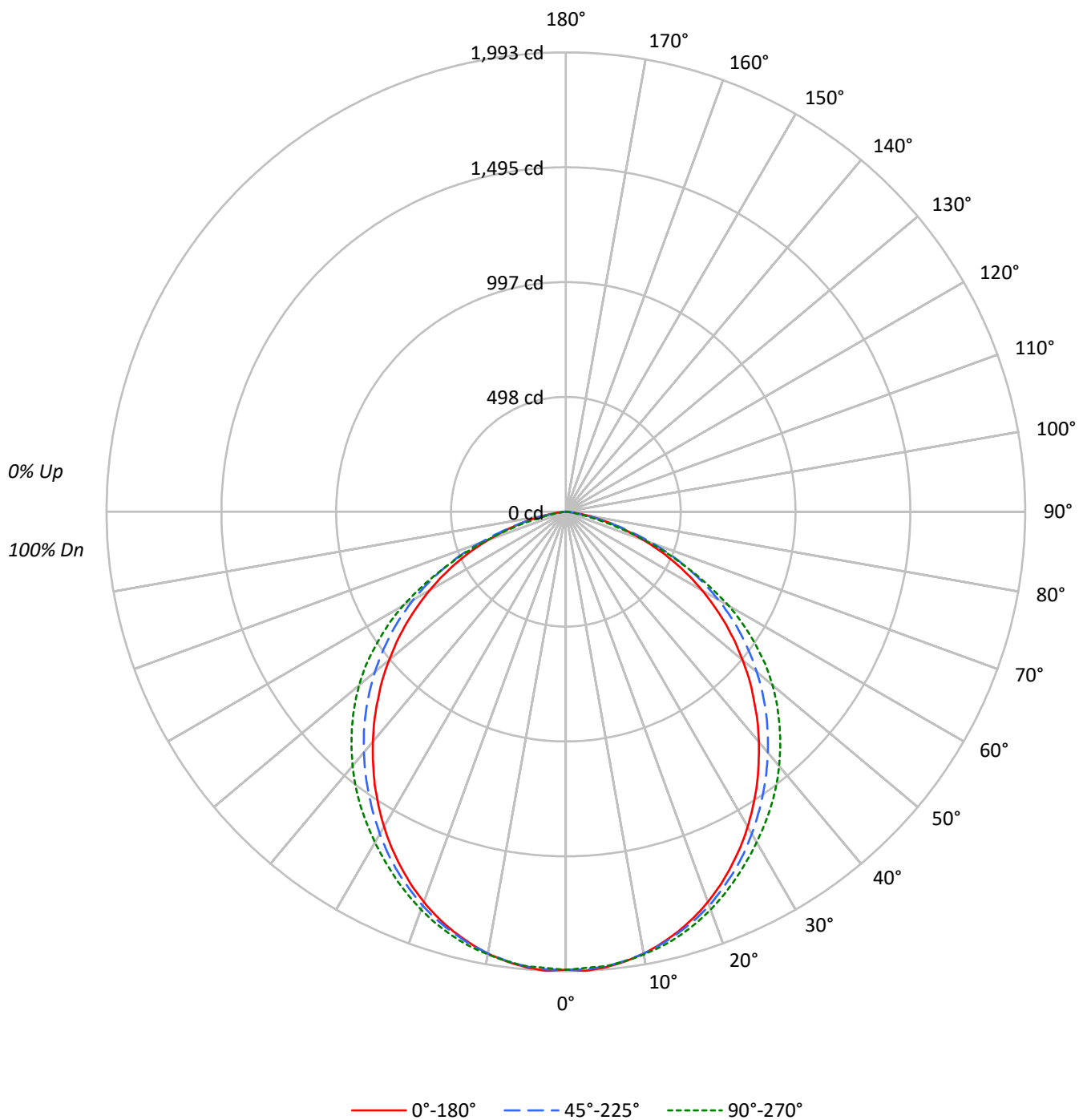
Lumens per Lamp: N/A
Luminaire Lumens: 5036.0 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 52.3
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	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°	5347	5347	5347
5°	5358	5347	5345
10°	5319	5316	5329
15°	5251	5268	5306
20°	5160	5207	5261
25°	5040	5121	5201
30°	4904	5015	5146
35°	4750	4901	5107
40°	4577	4790	5056
45°	4390	4671	4991
50°	4187	4527	4903
55°	3962	4352	4714
60°	3677	4112	4399
65°	3320	3750	3768
70°	2834	3149	2928
75°	2226	2298	1801
80°	1452	1182	697
85°	695	466	371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4991 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.7	3.7
10°-20°	532.8	10.6
20°-30°	792.5	15.7
30°-40°	933.9	18.5
40°-50°	946.8	18.8
50°-60°	825.1	16.4
60°-70°	564.3	11.2
70°-80°	226.7	4.5
80°-90°	26.3	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°	1513.0	30.0
0°-40°	2446.9	48.6
0°-60°	4218.8	83.8
0°-90°	5036.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5036.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1987	1987	1987	1987	1987	
5°	1984	1972	1980	1977	1979	188
15°	1885	1877	1891	1899	1905	531
25°	1698	1698	1725	1737	1752	781
35°	1446	1452	1492	1528	1555	903
45°	1154	1169	1228	1283	1312	890
55°	844	862	928	986	1005	754
65°	521	545	589	594	592	516
75°	214	228	221	190	173	230
85°	22	20	15	13	12	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1987.0	1987.0	1987.0	1987.0	1987.0
2.5°	1993.4	1980.1	1987.0	1985.5	1980.5
5°	1983.7	1971.7	1979.6	1977.3	1978.6
7.5°	1968.1	1957.1	1965.3	1964.9	1967.2
10°	1946.6	1935.5	1945.6	1947.5	1950.2
12.5°	1918.0	1908.9	1921.3	1924.9	1930.4
15°	1884.9	1876.7	1890.9	1898.7	1904.7
17.5°	1846.3	1839.4	1857.8	1865.2	1873.4
20°	1801.8	1796.8	1818.3	1825.2	1837.2
22.5°	1752.2	1749.5	1771.9	1782.5	1796.3
25°	1697.5	1698.0	1724.6	1737.1	1751.7
27.5°	1640.1	1641.0	1671.4	1688.7	1704.4
30°	1578.1	1580.8	1613.9	1635.5	1656.1
32.5°	1512.4	1517.8	1553.7	1583.1	1606.1
35°	1445.8	1452.1	1491.8	1528.4	1554.6
37.5°	1373.7	1384.2	1428.8	1472.5	1499.5
40°	1302.9	1313.4	1363.5	1411.7	1439.4
42.5°	1229.9	1243.2	1296.5	1350.2	1376.8
45°	1153.6	1169.2	1227.5	1282.7	1311.6
47.5°	1080.5	1094.3	1155.9	1213.3	1243.2
50°	1000.1	1017.6	1081.4	1141.6	1171.1
52.5°	923.4	939.5	1005.2	1066.8	1093.4
55°	844.4	862.3	927.6	985.9	1004.8
57.5°	763.5	785.1	848.1	896.8	914.7
60°	683.2	704.7	764.0	804.0	817.3
62.5°	603.2	626.2	678.1	704.7	704.7
65°	521.4	544.9	588.9	593.5	591.7
67.5°	439.7	463.1	496.6	488.3	482.8
70°	360.2	380.4	400.2	384.9	372.2
72.5°	283.0	302.3	305.5	283.5	267.4
75°	214.1	228.4	221.0	189.8	173.2
77.5°	149.3	157.6	142.0	110.3	97.0
80°	93.7	97.4	76.3	53.7	45.0
82.5°	50.6	51.0	33.1	27.1	25.3
85°	22.5	20.2	15.1	13.3	12.0
87.5°	7.8	6.9	5.5	5.1	4.2
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	16.75	18.33	17.12	18.65	18.96	17.73	19.32	18.10	19.63	19.95
	3H	18.16	19.58	18.54	19.91	20.27	18.94	20.36	19.32	20.69	21.05
	4H	18.55	19.89	18.95	20.24	20.61	19.16	20.49	19.55	20.84	21.21
	6H	18.73	19.96	19.14	20.33	20.72	19.17	20.40	19.58	20.77	21.16
	8H	18.74	19.92	19.17	20.31	20.71	19.15	20.32	19.57	20.71	21.11
	12H	18.74	19.86	19.17	20.24	20.67	19.12	20.25	19.55	20.63	21.06
4H	2H	17.42	18.76	17.82	19.10	19.48	18.21	19.55	18.61	19.89	20.27
	3H	18.99	20.10	19.40	20.49	20.90	19.58	20.69	19.99	21.09	21.49
	4H	19.47	20.46	19.90	20.88	21.31	19.85	20.85	20.29	21.26	21.70
	6H	19.71	20.57	20.16	21.01	21.47	19.91	20.77	20.36	21.21	21.67
	8H	19.73	20.53	20.19	20.98	21.44	19.88	20.69	20.34	21.13	21.60
	12H	19.73	20.45	20.21	20.93	21.40	19.86	20.58	20.34	21.06	21.53
8H	4H	19.61	20.42	20.07	20.86	21.33	19.97	20.78	20.43	21.22	21.69
	6H	19.89	20.55	20.38	21.04	21.52	20.03	20.69	20.53	21.18	21.66
	8H	19.93	20.52	20.44	21.03	21.52	20.01	20.60	20.52	21.11	21.60
	12H	19.94	20.46	20.45	20.96	21.52	20.00	20.52	20.50	21.01	21.57
12H	4H	19.59	20.31	20.08	20.79	21.26	19.96	20.68	20.44	21.16	21.63
	6H	19.86	20.45	20.37	20.96	21.45	20.01	20.60	20.52	21.11	21.60
	8H	19.92	20.45	20.43	20.94	21.50	20.01	20.53	20.52	21.02	21.59