

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: P1498483

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498483
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-2-120-2LO-STD-30-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

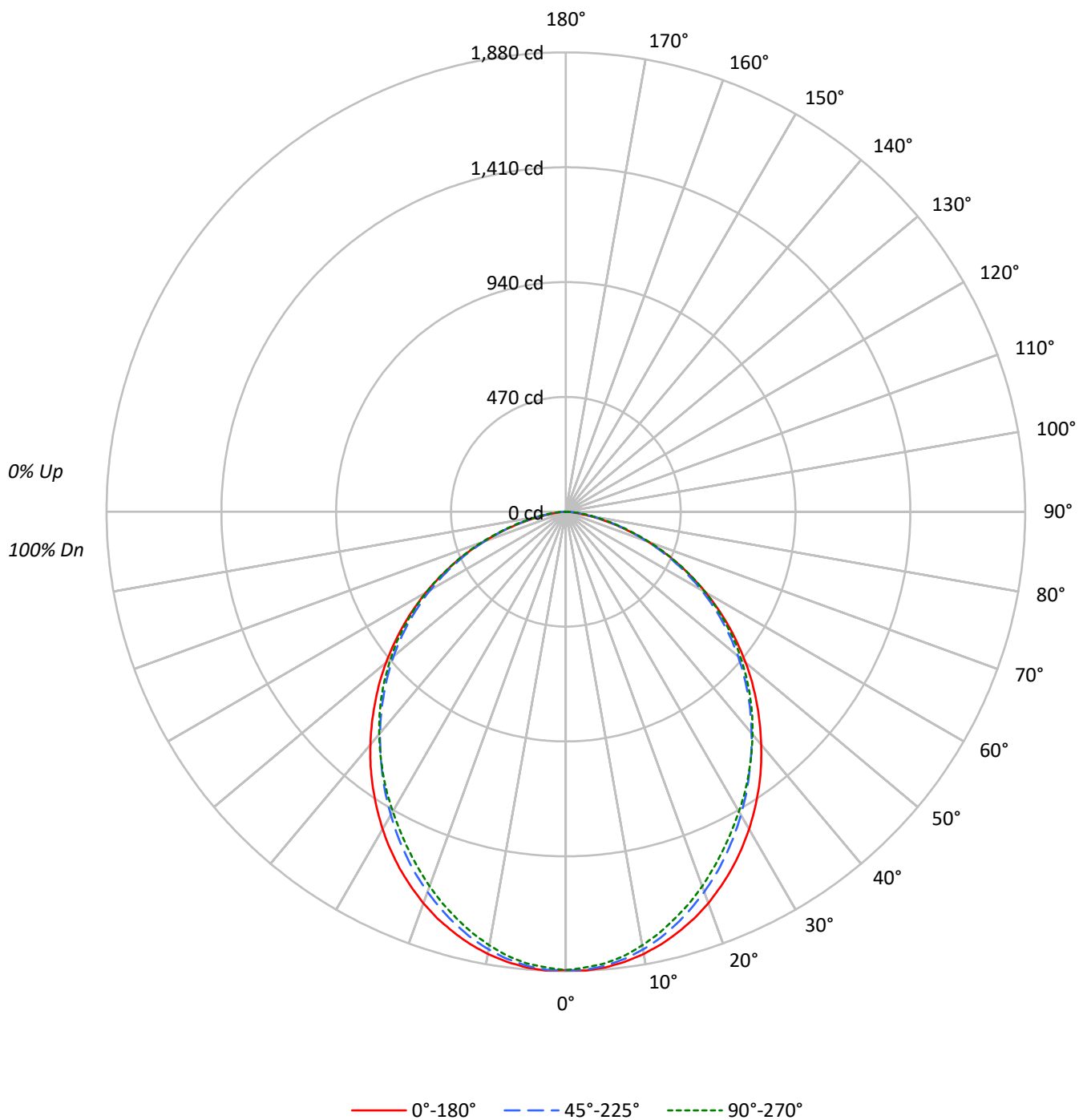
Lumens per Lamp: N/A
Luminaire Lumens: 4528.0 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	98	90	84	79	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	63	63	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5048	5048	5048
5°	5055	5037	5011
10°	5021	4971	4923
15°	4960	4867	4802
20°	4881	4741	4670
25°	4780	4602	4529
30°	4660	4453	4401
35°	4525	4300	4288
40°	4370	4155	4175
45°	4203	4008	4058
50°	4021	3851	3916
55°	3811	3668	3751
60°	3559	3444	3550
65°	3242	3156	3265
70°	2806	2788	2881
75°	2244	2316	2377
80°	1531	1694	1799
85°	803	1204	1581

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4203 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.3	3.9
10°-20°	492.2	10.9
20°-30°	717.0	15.8
30°-40°	828.5	18.3
40°-50°	824.1	18.2
50°-60°	708.1	15.6
60°-70°	497.0	11.0
70°-80°	237.0	5.2
80°-90°	47.9	1.1
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°	1385.4	30.6
0°-40°	2213.9	48.9
0°-60°	3746.1	82.7
0°-90°	4528.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4528.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1876	1876	1876	1876	1876	
5°	1872	1866	1865	1852	1855	178
15°	1780	1767	1747	1723	1724	502
25°	1610	1587	1550	1525	1525	741
35°	1377	1347	1309	1300	1305	861
45°	1104	1076	1053	1059	1066	852
55°	812	789	782	793	800	725
65°	509	494	496	507	513	503
75°	216	210	223	227	229	232
85°	26	30	39	47	51	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1876.0	1876.0	1876.0	1876.0	1876.0
2.5°	1879.5	1874.7	1876.0	1866.2	1866.7
5°	1871.5	1865.6	1864.7	1852.0	1854.9
7.5°	1857.2	1849.8	1845.3	1830.6	1832.9
10°	1837.4	1827.8	1819.2	1800.6	1801.6
12.5°	1811.9	1800.5	1786.5	1764.8	1766.2
15°	1780.4	1767.0	1747.1	1723.4	1723.8
17.5°	1745.5	1730.2	1703.4	1678.0	1680.2
20°	1704.4	1687.0	1655.4	1629.0	1630.8
22.5°	1658.7	1638.6	1605.0	1578.4	1578.5
25°	1609.8	1587.0	1550.0	1524.9	1525.2
27.5°	1556.8	1531.3	1492.6	1469.3	1470.8
30°	1499.8	1472.6	1433.0	1413.5	1416.2
32.5°	1439.7	1411.5	1372.3	1357.8	1362.7
35°	1377.4	1347.2	1308.9	1299.8	1305.3
37.5°	1312.4	1282.6	1246.2	1242.2	1247.8
40°	1244.1	1215.1	1182.8	1182.1	1188.6
42.5°	1175.0	1146.7	1118.7	1121.7	1128.6
45°	1104.5	1076.2	1053.2	1058.9	1066.3
47.5°	1034.1	1005.9	987.7	995.5	1002.2
50°	960.6	934.3	919.9	929.5	935.5
52.5°	885.6	861.2	851.4	862.4	870.9
55°	812.3	788.8	781.8	793.3	799.5
57.5°	736.6	716.6	711.9	723.1	729.7
60°	661.2	642.4	639.9	652.2	659.6
62.5°	584.9	567.8	568.2	580.4	586.5
65°	509.1	494.5	495.7	506.6	512.7
67.5°	433.8	420.7	425.1	437.4	440.6
70°	356.6	346.3	354.4	364.1	366.2
72.5°	285.0	276.1	286.6	294.0	294.7
75°	215.8	210.1	222.8	227.1	228.6
77.5°	152.7	151.9	161.8	166.2	168.2
80°	98.8	102.0	109.3	115.2	116.1
82.5°	56.0	60.0	67.4	77.3	81.2
85°	26.0	30.2	39.0	47.4	51.2
87.5°	8.8	11.9	16.5	18.0	17.1
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	16.56	18.14	16.92	18.45	18.77	16.60	18.18	16.96	18.49	18.81
	3H	18.03	19.45	18.41	19.78	20.14	18.14	19.56	18.52	19.89	20.25
	4H	18.46	19.80	18.86	20.15	20.53	18.61	19.95	19.01	20.30	20.67
	6H	18.68	19.92	19.09	20.28	20.67	18.88	20.12	19.29	20.48	20.87
	8H	18.71	19.89	19.13	20.28	20.68	18.95	20.13	19.37	20.52	20.92
	12H	18.71	19.84	19.14	20.22	20.65	18.99	20.12	19.42	20.51	20.94
4H	2H	17.09	18.43	17.49	18.78	19.15	17.13	18.46	17.52	18.81	19.19
	3H	18.75	19.86	19.16	20.26	20.66	18.86	19.97	19.27	20.37	20.77
	4H	19.27	20.27	19.70	20.68	21.12	19.43	20.43	19.86	20.85	21.29
	6H	19.56	20.43	20.02	20.88	21.33	19.79	20.66	20.25	21.11	21.56
	8H	19.61	20.43	20.07	20.87	21.33	19.89	20.71	20.35	21.15	21.61
	12H	19.63	20.36	20.11	20.83	21.30	19.97	20.70	20.45	21.17	21.64
8H	4H	19.47	20.28	19.93	20.72	21.19	19.62	20.43	20.08	20.87	21.34
	6H	19.82	20.50	20.32	20.99	21.46	20.05	20.72	20.54	21.21	21.69
	8H	19.90	20.50	20.41	21.01	21.50	20.19	20.79	20.70	21.30	21.79
	12H	19.94	20.48	20.45	20.97	21.53	20.32	20.85	20.82	21.34	21.90
12H	4H	19.47	20.20	19.95	20.68	21.15	19.62	20.35	20.10	20.82	21.29
	6H	19.83	20.44	20.34	20.95	21.43	20.05	20.65	20.56	21.16	21.65
	8H	19.95	20.48	20.46	20.97	21.53	20.23	20.77	20.74	21.26	21.82

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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