

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: P1498555

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498555
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-30-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

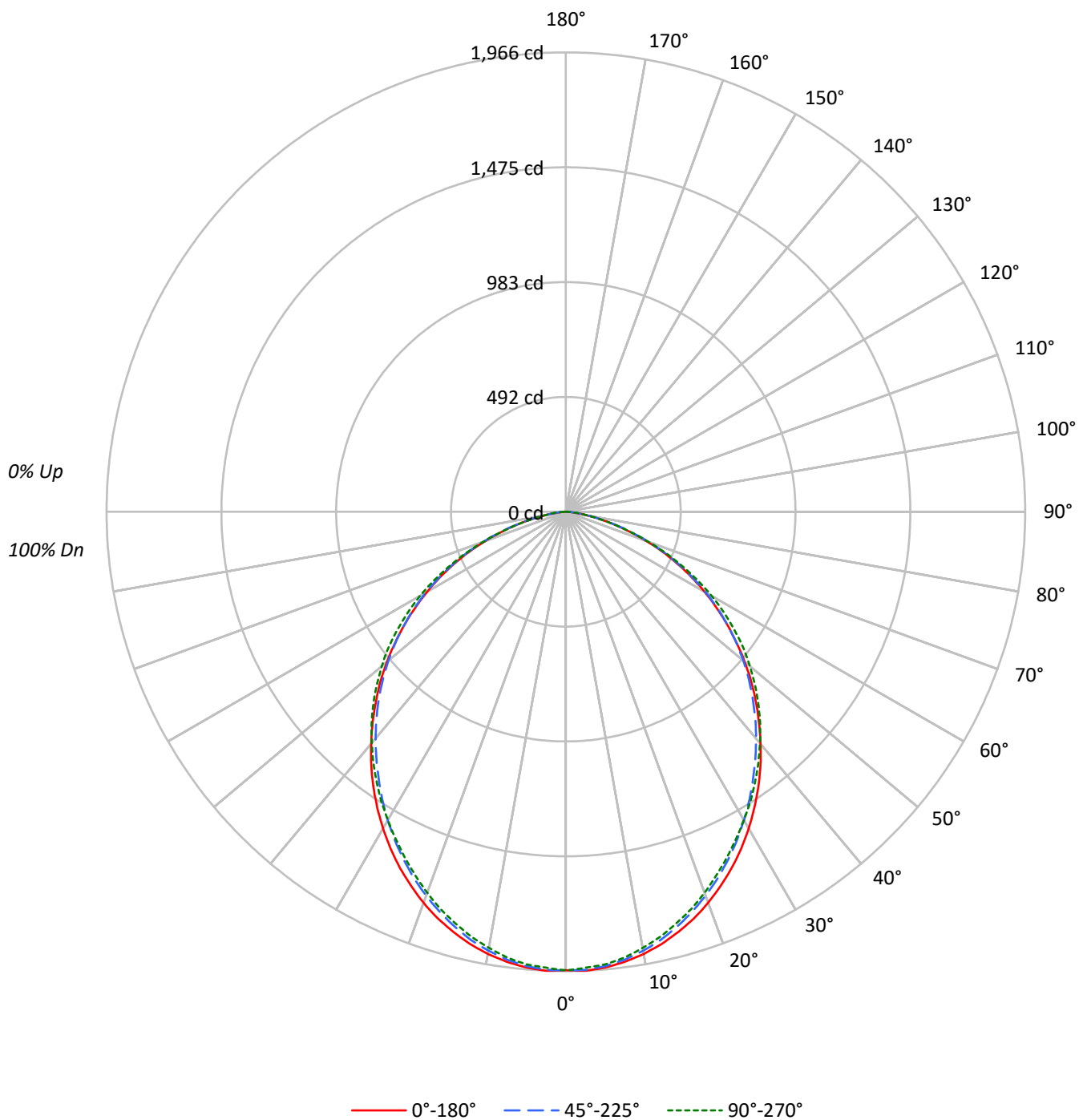
Lumens per Lamp: N/A
Luminaire Lumens: 4798.0 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	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	88	88	88	86
2	100	92	86	81	98	91	85	80	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	64	64	64	62
4	84	73	64	58	82	71	63	57	69	62	57	67	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	54	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°	5280	5280	5280
5°	5288	5272	5251
10°	5250	5213	5180
15°	5185	5121	5082
20°	5100	5007	4970
25°	4992	4878	4844
30°	4863	4737	4733
35°	4719	4588	4638
40°	4554	4449	4540
45°	4376	4306	4437
50°	4183	4149	4303
55°	3961	3961	4128
60°	3693	3726	3883
65°	3355	3406	3493
70°	2893	2955	2967
75°	2301	2362	2284
80°	1551	1590	1539
85°	787	1022	1278

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4437 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.6	3.8
10°-20°	517.9	10.8
20°-30°	758.7	15.8
30°-40°	881.7	18.4
40°-50°	881.9	18.4
50°-60°	760.7	15.9
60°-70°	529.2	11.0
70°-80°	240.2	5.0
80°-90°	43.0	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°	1461.2	30.5
0°-40°	2343.0	48.8
0°-60°	3985.6	83.1
0°-90°	4798.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4798.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1962	1962	1962	1962	1962	
5°	1958	1950	1952	1942	1944	186
15°	1861	1849	1838	1822	1824	525
25°	1681	1664	1643	1628	1632	774
35°	1436	1416	1397	1401	1412	898
45°	1150	1133	1131	1152	1166	887
55°	844	832	844	869	880	754
65°	527	523	535	543	548	521
75°	221	221	227	222	220	238
85°	26	28	33	39	41	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1962.2	1962.2	1962.2	1962.2	1962.2
2.5°	1966.3	1959.1	1962.2	1954.4	1953.3
5°	1957.6	1950.0	1951.6	1941.5	1943.8
7.5°	1942.6	1934.0	1933.1	1922.0	1924.3
10°	1921.5	1911.3	1907.9	1894.3	1895.6
12.5°	1894.7	1883.5	1876.7	1861.3	1863.6
15°	1861.2	1848.9	1838.3	1822.5	1824.1
17.5°	1824.5	1811.6	1795.7	1779.2	1783.0
20°	1780.8	1767.0	1748.5	1731.2	1735.5
22.5°	1732.6	1717.2	1698.1	1681.3	1684.1
25°	1681.2	1664.5	1642.8	1628.1	1631.6
27.5°	1625.2	1606.6	1585.2	1572.5	1577.7
30°	1565.1	1545.9	1524.4	1516.3	1523.3
32.5°	1501.9	1482.4	1461.9	1460.1	1470.0
35°	1436.5	1415.8	1396.7	1400.9	1411.8
37.5°	1368.5	1348.3	1332.2	1342.1	1353.6
40°	1296.3	1277.8	1266.5	1280.3	1292.5
42.5°	1223.9	1206.4	1199.8	1217.5	1230.8
45°	1150.0	1132.8	1131.4	1151.9	1165.9
47.5°	1076.7	1059.2	1062.4	1085.2	1097.9
50°	999.2	984.2	991.1	1015.2	1027.9
52.5°	921.4	907.6	918.4	944.0	958.7
55°	844.3	831.8	844.3	869.3	879.8
57.5°	765.0	756.0	769.7	791.5	801.5
60°	686.2	678.1	692.3	712.1	721.5
62.5°	606.6	599.9	614.3	629.9	635.2
65°	526.9	522.9	534.9	543.2	548.5
67.5°	448.8	444.7	456.0	462.9	464.2
70°	367.7	366.3	375.6	378.3	377.1
72.5°	293.4	291.4	298.6	297.4	294.8
75°	221.3	220.8	227.2	221.7	219.7
77.5°	155.8	158.2	159.5	154.9	153.1
80°	100.1	103.8	102.6	100.9	99.3
82.5°	56.0	58.7	59.3	65.2	67.5
85°	25.5	28.1	33.1	39.1	41.4
87.5°	8.7	10.8	13.8	14.7	13.9
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	16.71	18.29	17.07	18.60	18.92	17.03	18.61	17.39	18.92	19.24
	3H	18.17	19.59	18.54	19.92	20.28	18.46	19.88	18.83	20.21	20.57
	4H	18.59	19.92	18.99	20.27	20.65	18.84	20.18	19.24	20.53	20.90
	6H	18.79	20.03	19.20	20.39	20.78	19.02	20.25	19.43	20.62	21.01
	8H	18.82	19.99	19.24	20.38	20.78	19.05	20.23	19.48	20.62	21.02
	12H	18.81	19.94	19.24	20.32	20.75	19.07	20.20	19.50	20.58	21.01
4H	2H	17.28	18.62	17.68	18.96	19.34	17.54	18.88	17.94	19.22	19.60
	3H	18.91	20.02	19.32	20.42	20.82	19.15	20.26	19.56	20.66	21.06
	4H	19.42	20.42	19.85	20.83	21.27	19.62	20.62	20.05	21.04	21.47
	6H	19.70	20.57	20.15	21.01	21.47	19.87	20.74	20.33	21.18	21.64
	8H	19.74	20.55	20.20	20.99	21.46	19.92	20.74	20.39	21.18	21.65
	12H	19.75	20.47	20.23	20.95	21.42	19.96	20.69	20.44	21.17	21.64
8H	4H	19.60	20.41	20.06	20.85	21.32	19.78	20.60	20.25	21.04	21.51
	6H	19.93	20.60	20.43	21.09	21.57	20.09	20.76	20.58	21.25	21.72
	8H	20.00	20.60	20.51	21.11	21.59	20.17	20.77	20.68	21.28	21.76
	12H	20.03	20.56	20.54	21.05	21.61	20.24	20.77	20.75	21.26	21.83
12H	4H	19.60	20.32	20.08	20.80	21.27	19.78	20.51	20.26	20.98	21.45
	6H	19.93	20.53	20.44	21.04	21.52	20.08	20.68	20.59	21.19	21.68
	8H	20.03	20.56	20.53	21.05	21.61	20.20	20.73	20.71	21.22	21.78