

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: P1498258

Luminaire Tested: MAE-G-2-120-1STD-HI-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498258
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-50-90-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

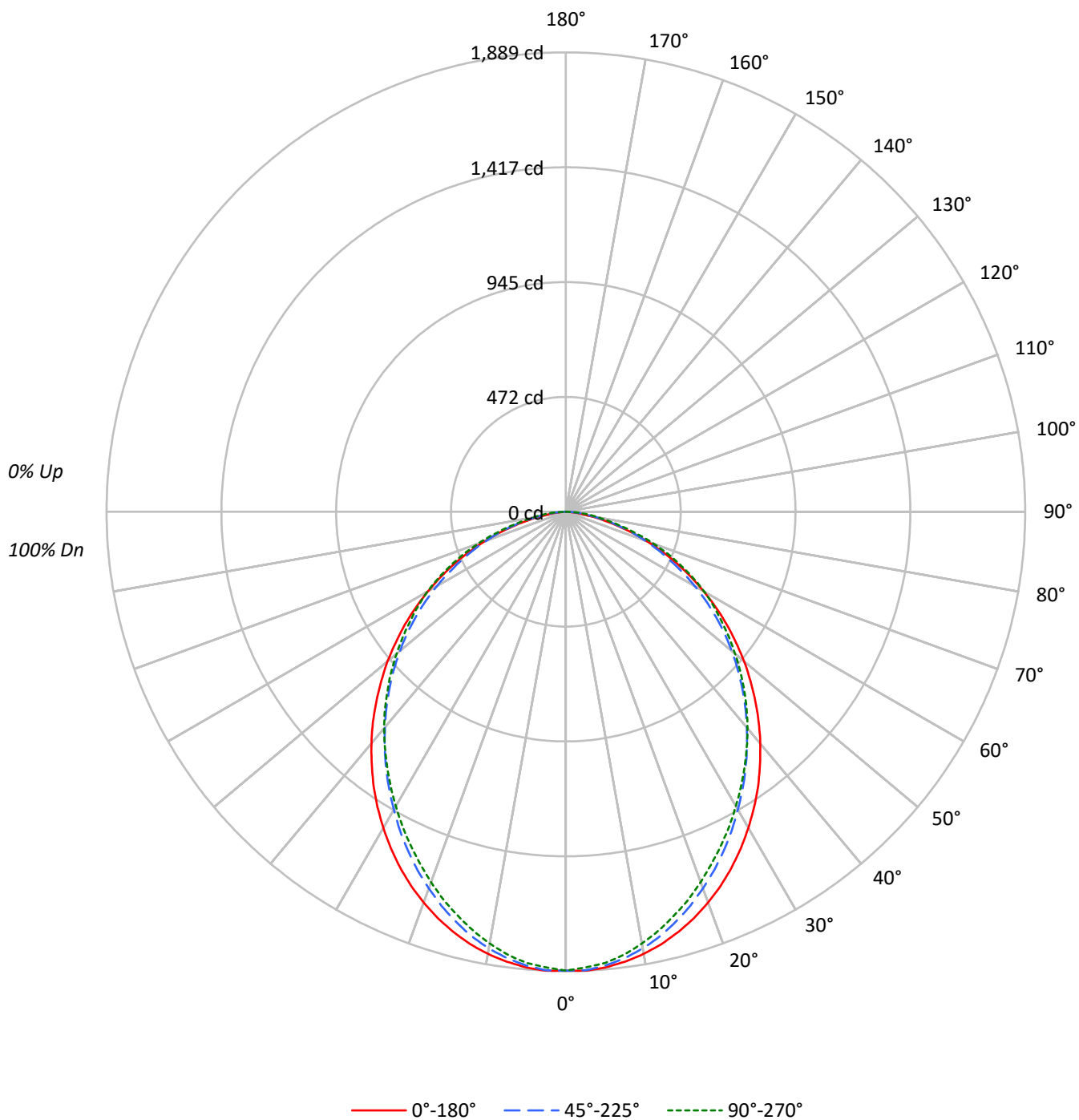
Lumens per Lamp: N/A
Luminaire Lumens: 4488.0 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	5078	5078	5078
5°	5080	5059	5031
10°	5044	4982	4926
15°	4982	4863	4788
20°	4897	4718	4641
25°	4791	4564	4490
30°	4664	4394	4345
35°	4527	4233	4209
40°	4370	4067	4083
45°	4194	3903	3945
50°	4007	3729	3803
55°	3788	3530	3658
60°	3522	3302	3540
65°	3210	3016	3329
70°	2791	2733	3026
75°	2234	2368	2575
80°	1553	1888	2128
85°	871	1476	1961

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4194 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.0	3.9
10°-20°	492.3	11.0
20°-30°	713.1	15.9
30°-40°	818.5	18.2
40°-50°	808.1	18.0
50°-60°	690.6	15.4
60°-70°	489.3	10.9
70°-80°	243.7	5.4
80°-90°	55.4	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°	1382.4	30.8
0°-40°	2200.8	49.0
0°-60°	3699.5	82.4
0°-90°	4488.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4488.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1887	1887	1887	1887	1887	
5°	1881	1879	1873	1858	1862	178
15°	1788	1777	1746	1717	1719	504
25°	1614	1586	1537	1510	1512	743
35°	1378	1340	1289	1276	1281	861
45°	1102	1066	1026	1029	1037	850
55°	808	774	752	766	780	721
65°	504	478	474	508	523	499
75°	215	204	228	245	248	232
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°	1886.9	1886.9	1886.9	1886.9	1886.9
2.5°	1889.1	1890.8	1886.9	1872.1	1875.1
5°	1880.6	1879.1	1872.9	1858.1	1862.4
7.5°	1865.8	1862.9	1851.6	1833.8	1836.5
10°	1846.1	1840.3	1823.2	1800.7	1802.7
12.5°	1820.4	1812.3	1788.1	1762.0	1763.8
15°	1788.4	1777.0	1745.7	1717.3	1718.8
17.5°	1751.8	1738.1	1699.7	1668.9	1673.0
20°	1710.2	1692.0	1647.6	1617.7	1620.6
22.5°	1664.2	1641.6	1594.6	1564.8	1566.3
25°	1613.6	1586.4	1537.2	1510.3	1512.3
27.5°	1559.2	1529.1	1477.7	1452.3	1456.3
30°	1501.0	1468.4	1414.2	1393.9	1398.2
32.5°	1441.1	1406.2	1352.4	1336.1	1340.4
35°	1378.1	1340.2	1288.7	1275.7	1281.4
37.5°	1310.8	1273.9	1222.8	1217.0	1222.0
40°	1243.9	1205.8	1157.8	1155.7	1162.4
42.5°	1174.3	1137.1	1092.4	1093.0	1101.0
45°	1102.1	1065.9	1025.5	1029.3	1036.7
47.5°	1029.3	993.7	958.8	964.7	974.2
50°	957.1	922.5	890.8	900.0	908.3
52.5°	880.9	848.0	822.6	832.9	845.0
55°	807.5	774.3	752.4	766.3	779.8
57.5°	731.4	703.1	683.6	702.4	720.0
60°	654.4	626.6	613.5	640.1	657.8
62.5°	578.7	551.7	542.5	576.2	590.3
65°	504.2	477.9	473.7	507.8	522.8
67.5°	430.0	406.2	410.9	445.5	456.2
70°	354.7	333.3	347.4	377.9	384.6
72.5°	283.7	266.0	287.6	311.1	314.2
75°	214.9	203.5	227.8	245.3	247.7
77.5°	154.0	148.1	171.8	185.3	188.1
80°	100.2	102.3	121.8	133.1	137.3
82.5°	58.6	64.3	79.8	94.3	98.6
85°	28.2	35.0	47.8	58.8	63.5
87.5°	9.7	14.2	20.1	22.3	21.7
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	16.47	18.05	16.83	18.36	18.68	16.45	18.04	16.82	18.35	18.66
	3H	17.93	19.35	18.31	19.68	20.04	18.15	19.58	18.53	19.90	20.27
	4H	18.36	19.70	18.76	20.05	20.43	18.70	20.04	19.10	20.39	20.77
	6H	18.59	19.83	19.00	20.20	20.59	19.05	20.29	19.46	20.66	21.05
	8H	18.63	19.81	19.05	20.20	20.60	19.16	20.34	19.59	20.73	21.13
	12H	18.63	19.77	19.06	20.15	20.58	19.24	20.37	19.67	20.75	21.18
4H	2H	16.96	18.30	17.36	18.65	19.03	16.95	18.29	17.35	18.64	19.02
	3H	18.62	19.73	19.03	20.13	20.53	18.86	19.98	19.27	20.38	20.78
	4H	19.14	20.14	19.57	20.56	21.00	19.53	20.54	19.96	20.95	21.39
	6H	19.45	20.32	19.90	20.77	21.22	19.99	20.87	20.45	21.31	21.77
	8H	19.51	20.33	19.97	20.77	21.23	20.14	20.96	20.60	21.40	21.87
	12H	19.53	20.27	20.01	20.74	21.21	20.26	20.99	20.74	21.47	21.94
8H	4H	19.37	20.19	19.83	20.63	21.10	19.73	20.54	20.19	20.99	21.45
	6H	19.75	20.43	20.25	20.92	21.39	20.28	20.96	20.77	21.45	21.92
	8H	19.84	20.45	20.36	20.96	21.45	20.49	21.10	21.00	21.60	22.09
	12H	19.90	20.44	20.41	20.93	21.49	20.67	21.21	21.18	21.70	22.26
12H	4H	19.39	20.12	19.87	20.60	21.07	19.73	20.46	20.21	20.94	21.41
	6H	19.78	20.39	20.29	20.90	21.38	20.29	20.90	20.80	21.40	21.89
	8H	19.92	20.45	20.42	20.94	21.51	20.54	21.08	21.05	21.57	22.13