

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: P1498240

Luminaire Tested: MAE-G-2-120-1STD-HI-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498240
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-30-90-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

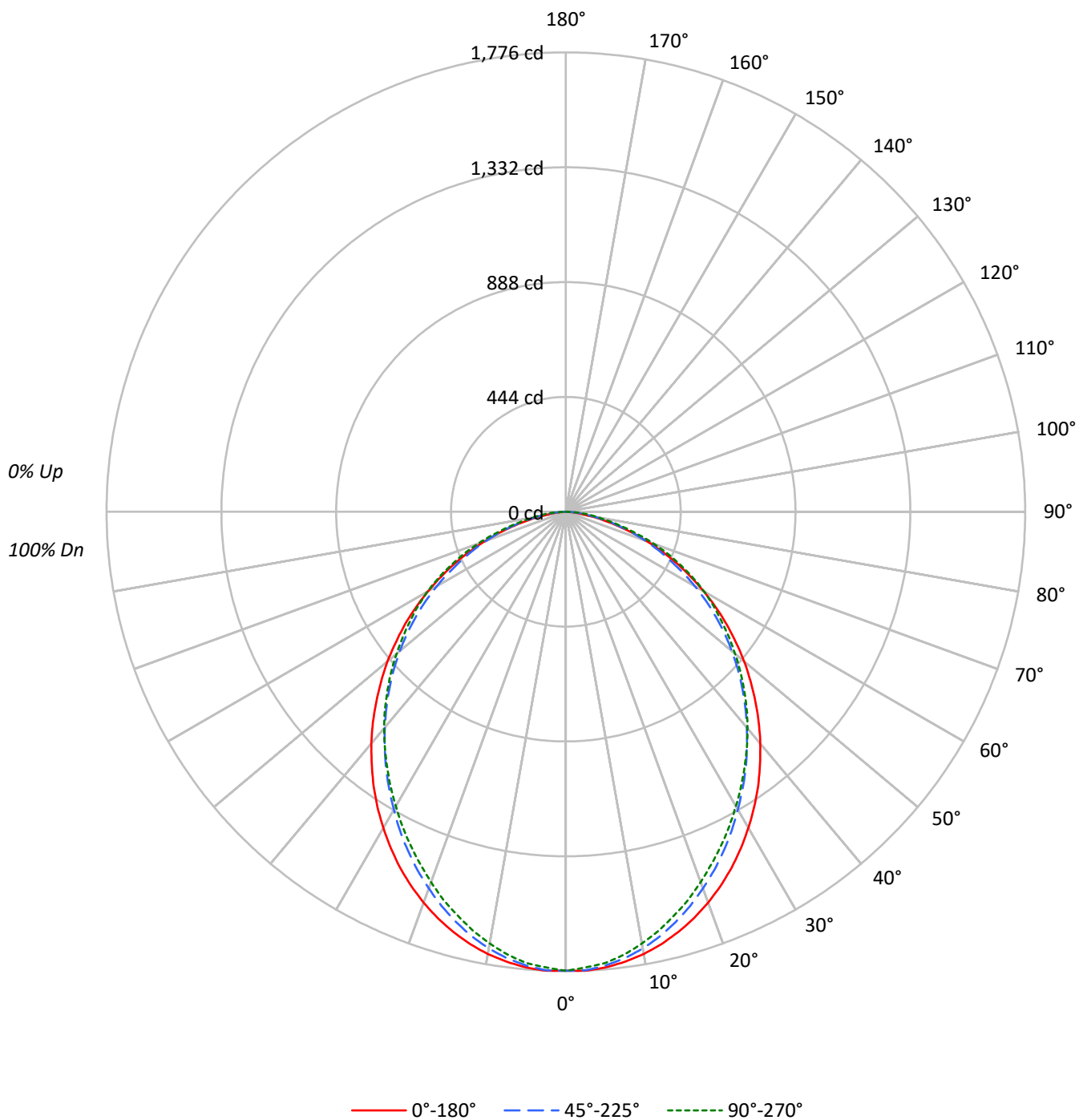
Lumens per Lamp: N/A
Luminaire Lumens: 4220.0 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	4775	4775	4775
5°	4777	4757	4731
10°	4743	4685	4632
15°	4685	4573	4503
20°	4605	4437	4363
25°	4505	4292	4222
30°	4386	4132	4085
35°	4257	3981	3959
40°	4109	3824	3839
45°	3944	3670	3710
50°	3767	3507	3575
55°	3562	3319	3440
60°	3312	3104	3329
65°	3019	2836	3130
70°	2624	2570	2845
75°	2101	2226	2420
80°	1461	1774	2001
85°	818	1389	1843

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3944 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	3.9
10°-20°	462.9	11.0
20°-30°	670.5	15.9
30°-40°	769.6	18.2
40°-50°	759.8	18.0
50°-60°	649.4	15.4
60°-70°	460.1	10.9
70°-80°	229.1	5.4
80°-90°	52.1	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°	1299.8	30.8
0°-40°	2069.4	49.0
0°-60°	3478.6	82.4
0°-90°	4220.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4220.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1774	1774	1774	1774	1774	
5°	1768	1767	1761	1747	1751	168
15°	1682	1671	1641	1615	1616	474
25°	1517	1492	1446	1420	1422	698
35°	1296	1260	1212	1200	1205	810
45°	1036	1002	964	968	975	799
55°	759	728	707	721	733	678
65°	474	449	445	478	492	469
75°	202	191	214	231	233	218
85°	26	33	45	55	60	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1774.3	1774.3	1774.3	1774.3	1774.3
2.5°	1776.2	1777.9	1774.3	1760.4	1763.2
5°	1768.4	1767.0	1761.1	1747.2	1751.3
7.5°	1754.4	1751.7	1741.1	1724.3	1726.8
10°	1735.9	1730.5	1714.4	1693.2	1695.0
12.5°	1711.7	1704.1	1681.3	1656.8	1658.5
15°	1681.6	1670.9	1641.4	1614.8	1616.2
17.5°	1647.2	1634.3	1598.3	1569.2	1573.1
20°	1608.1	1591.1	1549.3	1521.0	1523.7
22.5°	1564.8	1543.7	1499.3	1471.4	1472.8
25°	1517.3	1491.7	1445.5	1420.1	1422.0
27.5°	1466.1	1437.8	1389.5	1365.6	1369.3
30°	1411.4	1380.7	1329.7	1310.7	1314.7
32.5°	1355.1	1322.2	1271.6	1256.4	1260.4
35°	1295.8	1260.2	1211.8	1199.6	1205.0
37.5°	1232.5	1197.9	1149.7	1144.3	1149.1
40°	1169.6	1133.8	1088.7	1086.6	1092.9
42.5°	1104.2	1069.3	1027.2	1027.7	1035.2
45°	1036.3	1002.3	964.3	967.8	974.8
47.5°	967.8	934.4	901.6	907.1	916.0
50°	899.9	867.5	837.7	846.2	854.0
52.5°	828.3	797.4	773.6	783.1	794.5
55°	759.3	728.0	707.4	720.6	733.3
57.5°	687.8	661.1	642.8	660.4	677.0
60°	615.4	589.2	576.8	601.9	618.5
62.5°	544.1	518.8	510.1	541.8	555.1
65°	474.1	449.3	445.4	477.5	491.6
67.5°	404.2	381.9	386.3	418.9	429.0
70°	333.5	313.4	326.7	355.4	361.6
72.5°	266.7	250.1	270.4	292.5	295.4
75°	202.1	191.3	214.1	230.6	232.8
77.5°	144.8	139.2	161.4	174.3	177.0
80°	94.3	96.2	114.5	125.1	129.1
82.5°	55.1	60.4	75.1	88.7	92.7
85°	26.5	32.9	45.0	55.3	59.7
87.5°	9.1	13.3	18.9	21.0	20.4
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	16.25	17.84	16.62	18.15	18.46	16.24	17.82	16.60	18.13	18.45
	3H	17.72	19.14	18.09	19.47	19.83	17.94	19.36	18.32	19.69	20.05
	4H	18.15	19.49	18.55	19.84	20.22	18.49	19.83	18.89	20.18	20.55
	6H	18.38	19.62	18.79	19.98	20.37	18.84	20.08	19.25	20.44	20.84
	8H	18.41	19.60	18.84	19.98	20.38	18.95	20.13	19.37	20.52	20.92
	12H	18.42	19.55	18.85	19.93	20.36	19.03	20.16	19.46	20.54	20.97
4H	2H	16.75	18.09	17.15	18.44	18.82	16.74	18.08	17.14	18.43	18.80
	3H	18.40	19.52	18.81	19.92	20.32	18.65	19.76	19.06	20.16	20.56
	4H	18.92	19.93	19.36	20.34	20.78	19.32	20.32	19.75	20.74	21.17
	6H	19.23	20.11	19.69	20.55	21.01	19.78	20.66	20.23	21.10	21.55
	8H	19.29	20.11	19.75	20.55	21.02	19.93	20.75	20.39	21.19	21.66
	12H	19.32	20.05	19.80	20.53	21.00	20.05	20.78	20.53	21.26	21.73
8H	4H	19.16	19.98	19.62	20.42	20.88	19.51	20.33	19.97	20.77	21.24
	6H	19.54	20.21	20.03	20.70	21.18	20.06	20.74	20.56	21.23	21.71
	8H	19.63	20.24	20.14	20.75	21.23	20.27	20.88	20.79	21.39	21.88
	12H	19.69	20.22	20.20	20.71	21.28	20.46	21.00	20.97	21.49	22.05
12H	4H	19.17	19.91	19.65	20.38	20.85	19.51	20.25	19.99	20.72	21.19
	6H	19.56	20.17	20.08	20.68	21.17	20.07	20.68	20.59	21.19	21.68
	8H	19.70	20.24	20.21	20.73	21.29	20.33	20.87	20.84	21.36	21.92

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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