

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: P1498321

Luminaire Tested: MAE-G-2-120-2HI-35-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498321
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-2-120-2HI-35-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

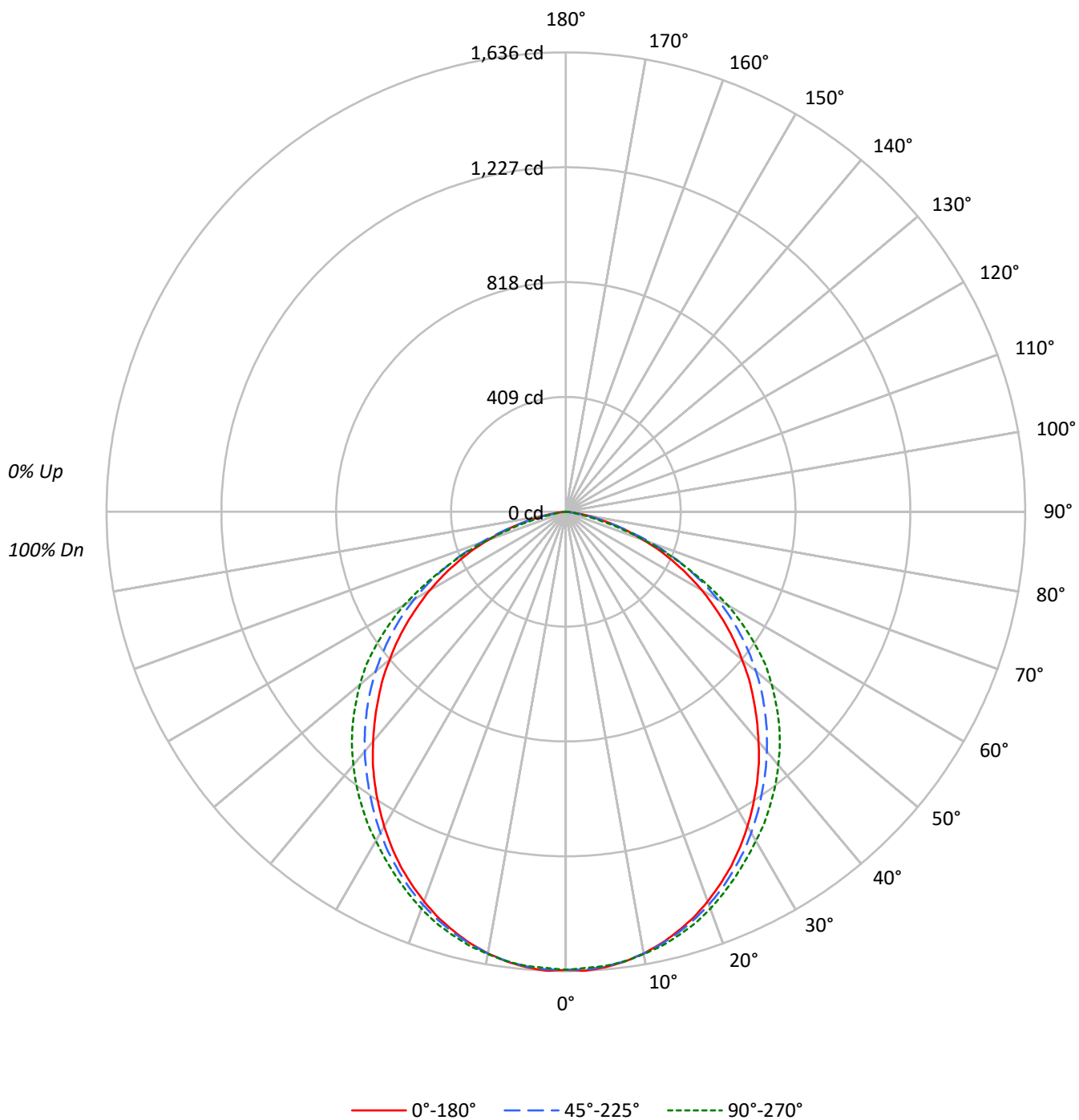
Lumens per Lamp: N/A
Luminaire Lumens: 4118.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 45.2
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	97	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	58	69	62	57		67	61	56		65
5	78	65	57	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	45	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	37	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°	4390	4390	4390
5°	4398	4390	4386
10°	4364	4364	4370
15°	4306	4321	4347
20°	4229	4264	4308
25°	4135	4189	4252
30°	4021	4103	4207
35°	3894	4004	4175
40°	3750	3913	4135
45°	3597	3816	4090
50°	3430	3701	4007
55°	3241	3553	3856
60°	3011	3354	3581
65°	2716	3047	3065
70°	2319	2537	2371
75°	1821	1837	1481
80°	1184	945	567
85°	550	358	290

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4090 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.1	3.7
10°-20°	437.0	10.6
20°-30°	649.2	15.8
30°-40°	764.7	18.6
40°-50°	774.7	18.8
50°-60°	674.3	16.4
60°-70°	459.5	11.2
70°-80°	183.7	4.5
80°-90°	21.0	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°	1240.3	30.1
0°-40°	2004.9	48.7
0°-60°	3453.9	83.9
0°-90°	4118.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4118.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1631	1631	1631	1631	1631	
5°	1628	1619	1625	1623	1624	154
15°	1546	1539	1551	1557	1560	436
25°	1393	1393	1411	1423	1432	641
35°	1185	1191	1219	1251	1271	741
45°	945	957	1003	1050	1075	729
55°	691	706	757	805	822	617
65°	427	446	479	479	481	423
75°	175	186	177	152	142	189
85°	18	16	12	10	9	28
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1631.3	1631.3	1631.3	1631.3	1631.3
2.5°	1635.9	1625.3	1631.3	1630.2	1625.8
5°	1628.0	1618.6	1625.3	1623.1	1623.6
7.5°	1615.3	1606.5	1613.7	1613.1	1614.8
10°	1597.1	1588.2	1597.1	1597.6	1599.3
12.5°	1574.3	1566.6	1577.1	1579.3	1583.2
15°	1545.5	1538.9	1551.0	1556.7	1560.5
17.5°	1514.5	1510.1	1522.3	1529.5	1535.6
20°	1476.8	1474.6	1489.1	1496.2	1504.5
22.5°	1435.8	1434.7	1452.0	1460.8	1469.1
25°	1392.6	1393.2	1411.0	1422.6	1432.0
27.5°	1345.0	1346.1	1367.7	1381.6	1393.2
30°	1294.0	1296.8	1320.6	1339.5	1353.9
32.5°	1240.3	1245.3	1270.8	1296.8	1315.1
35°	1185.4	1191.1	1218.7	1250.8	1270.8
37.5°	1129.0	1135.1	1167.2	1204.9	1226.0
40°	1067.5	1076.8	1114.0	1155.6	1177.1
42.5°	1007.0	1017.6	1059.2	1104.6	1127.9
45°	945.1	956.7	1002.6	1049.8	1074.6
47.5°	885.2	895.1	944.5	993.8	1016.0
50°	819.3	832.6	884.1	933.5	957.2
52.5°	756.2	768.9	821.5	871.9	896.4
55°	690.8	705.7	757.3	804.9	822.0
57.5°	624.9	642.1	691.9	731.2	746.1
60°	559.5	576.7	623.2	654.2	665.3
62.5°	493.5	511.3	552.3	571.2	573.4
65°	426.6	446.5	478.6	479.2	481.4
67.5°	362.9	379.4	402.7	396.1	392.8
70°	294.7	312.9	322.4	309.2	301.3
72.5°	234.3	247.6	246.0	226.5	217.2
75°	175.1	185.6	176.7	151.8	142.4
77.5°	121.3	130.1	112.4	89.1	79.8
80°	76.4	80.3	61.0	43.2	36.6
82.5°	41.0	40.4	26.1	21.5	20.0
85°	17.8	16.0	11.6	10.5	9.4
87.5°	6.1	5.5	4.4	3.9	3.3
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	16.06	17.64	16.42	17.95	18.27	17.02	18.60	17.38	18.91	19.23
	3H	17.48	18.90	17.85	19.22	19.58	18.21	19.63	18.58	19.95	20.31
	4H	17.87	19.20	18.27	19.55	19.93	18.42	19.75	18.82	20.10	20.48
	6H	18.04	19.27	18.46	19.64	20.03	18.44	19.67	18.85	20.04	20.43
	8H	18.06	19.23	18.48	19.62	20.02	18.42	19.59	18.84	19.98	20.38
	12H	18.05	19.17	18.48	19.55	19.98	18.39	19.51	18.82	19.89	20.32
4H	2H	16.72	18.05	17.12	18.40	18.77	17.49	18.82	17.89	19.17	19.55
	3H	18.29	19.40	18.70	19.80	20.20	18.84	19.94	19.25	20.34	20.74
	4H	18.77	19.76	19.20	20.18	20.61	19.11	20.10	19.54	20.52	20.95
	6H	19.01	19.87	19.47	20.31	20.77	19.16	20.02	19.62	20.46	20.92
	8H	19.03	19.84	19.50	20.28	20.75	19.14	19.94	19.60	20.38	20.85
	12H	19.03	19.75	19.51	20.23	20.70	19.11	19.83	19.60	20.31	20.78
8H	4H	18.91	19.71	19.37	20.15	20.62	19.22	20.03	19.69	20.47	20.94
	6H	19.18	19.84	19.68	20.33	20.81	19.28	19.94	19.78	20.43	20.91
	8H	19.22	19.81	19.73	20.32	20.81	19.26	19.85	19.77	20.36	20.85
	12H	19.23	19.75	19.74	20.25	20.81	19.24	19.76	19.75	20.26	20.82
12H	4H	18.89	19.61	19.37	20.08	20.55	19.21	19.93	19.69	20.41	20.88
	6H	19.15	19.74	19.66	20.25	20.74	19.26	19.85	19.77	20.36	20.85
	8H	19.22	19.74	19.72	20.23	20.79	19.26	19.78	19.77	20.27	20.84