

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: P1498333

Luminaire Tested: MAE-G-2-120-2HI-50-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498333
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-50-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

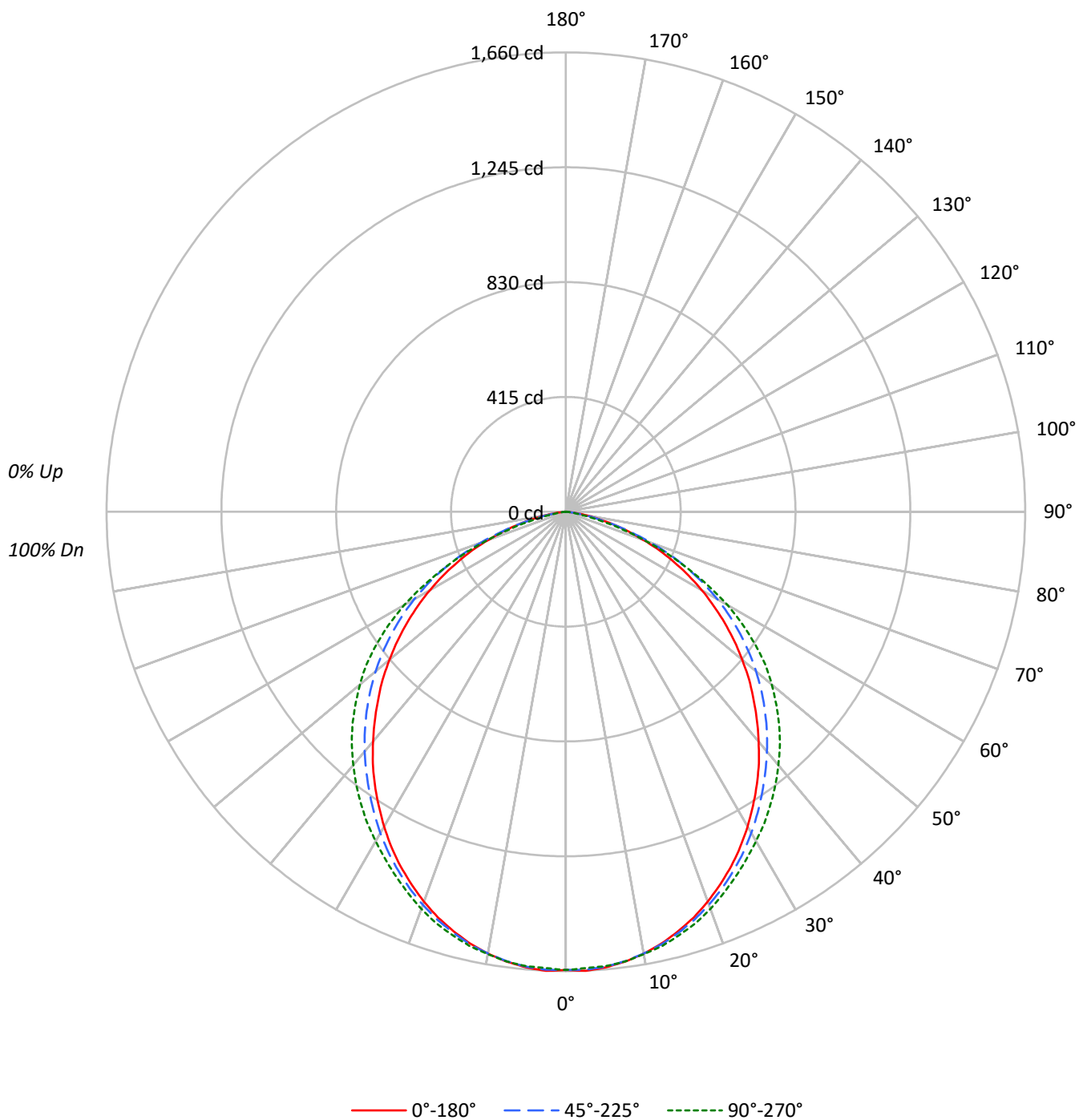
Lumens per Lamp: N/A
Luminaire Lumens: 4180.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	4456	4456	4456
5°	4464	4457	4452
10°	4430	4430	4436
15°	4371	4386	4413
20°	4293	4328	4373
25°	4197	4252	4316
30°	4081	4165	4270
35°	3953	4064	4237
40°	3806	3972	4197
45°	3651	3873	4151
50°	3482	3757	4068
55°	3290	3606	3915
60°	3057	3405	3634
65°	2757	3093	3112
70°	2353	2574	2407
75°	1848	1864	1502
80°	1203	959	576
85°	556	364	296

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4151 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	3.7
10°-20°	443.6	10.6
20°-30°	659.0	15.8
30°-40°	776.2	18.6
40°-50°	786.3	18.8
50°-60°	684.4	16.4
60°-70°	466.4	11.2
70°-80°	186.4	4.5
80°-90°	21.3	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°	1258.9	30.1
0°-40°	2035.1	48.7
0°-60°	3505.9	83.9
0°-90°	4180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4180.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1656	1656	1656	1656	1656	
5°	1652	1643	1650	1648	1648	157
15°	1569	1562	1574	1580	1584	442
25°	1414	1414	1432	1444	1454	650
35°	1203	1209	1237	1270	1290	752
45°	959	971	1018	1066	1091	740
55°	701	716	769	817	834	626
65°	433	453	486	486	489	429
75°	178	188	179	154	144	191
85°	18	16	12	11	10	28
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1655.9	1655.9	1655.9	1655.9	1655.9
2.5°	1660.5	1649.8	1655.9	1654.8	1650.3
5°	1652.5	1643.0	1649.8	1647.6	1648.1
7.5°	1639.6	1630.7	1638.0	1637.4	1639.1
10°	1621.1	1612.2	1621.1	1621.6	1623.3
12.5°	1598.0	1590.2	1600.8	1603.1	1607.1
15°	1568.8	1562.1	1574.4	1580.1	1583.9
17.5°	1537.3	1532.9	1545.2	1552.5	1558.7
20°	1499.1	1496.8	1511.5	1518.7	1527.2
22.5°	1457.4	1456.3	1473.8	1482.8	1491.2
25°	1413.6	1414.2	1432.2	1444.0	1453.6
27.5°	1365.2	1366.3	1388.3	1402.4	1414.2
30°	1313.5	1316.4	1340.5	1359.6	1374.3
32.5°	1259.0	1264.0	1289.9	1316.4	1334.9
35°	1203.3	1209.0	1237.1	1269.6	1289.9
37.5°	1146.0	1152.2	1184.8	1223.0	1244.4
40°	1083.6	1093.0	1130.8	1173.0	1194.8
42.5°	1022.2	1032.9	1075.1	1121.3	1144.9
45°	959.3	971.1	1017.7	1065.6	1090.8
47.5°	898.5	908.6	958.7	1008.8	1031.3
50°	831.7	845.1	897.4	947.5	971.6
52.5°	767.6	780.5	833.9	885.0	909.9
55°	701.2	716.3	768.7	817.0	834.4
57.5°	634.3	651.7	702.3	742.2	757.4
60°	568.0	585.4	632.6	664.0	675.3
62.5°	501.0	519.0	560.6	579.8	582.0
65°	433.0	453.2	485.8	486.4	488.7
67.5°	368.4	385.1	408.8	402.0	398.7
70°	299.1	317.7	327.2	313.8	305.9
72.5°	237.9	251.3	249.7	229.9	220.5
75°	177.7	188.4	179.3	154.1	144.5
77.5°	123.2	132.1	114.1	90.5	81.0
80°	77.6	81.5	61.9	43.9	37.2
82.5°	41.6	41.0	26.5	21.9	20.3
85°	18.0	16.3	11.8	10.7	9.6
87.5°	6.2	5.6	4.5	4.0	3.4
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	16.11	17.69	16.47	18.00	18.32	17.07	18.65	17.43	18.96	19.28
	3H	17.53	18.95	17.91	19.28	19.64	18.26	19.68	18.64	20.01	20.37
	4H	17.92	19.25	18.32	19.60	19.98	18.47	19.81	18.87	20.15	20.53
	6H	18.10	19.33	18.51	19.69	20.08	18.49	19.72	18.90	20.09	20.48
	8H	18.11	19.28	18.53	19.67	20.07	18.47	19.64	18.89	20.03	20.43
	12H	18.10	19.22	18.53	19.60	20.03	18.44	19.56	18.87	19.95	20.38
4H	2H	16.77	18.10	17.17	18.45	18.83	17.54	18.88	17.94	19.22	19.60
	3H	18.35	19.45	18.76	19.85	20.25	18.89	20.00	19.30	20.39	20.80
	4H	18.82	19.81	19.25	20.23	20.67	19.16	20.15	19.59	20.57	21.00
	6H	19.06	19.92	19.52	20.37	20.82	19.21	20.07	19.67	20.51	20.97
	8H	19.08	19.89	19.55	20.33	20.80	19.19	19.99	19.65	20.43	20.90
	12H	19.08	19.80	19.57	20.28	20.75	19.17	19.88	19.65	20.36	20.83
8H	4H	18.96	19.76	19.42	20.21	20.67	19.27	20.08	19.74	20.52	20.99
	6H	19.23	19.90	19.73	20.39	20.86	19.33	20.00	19.83	20.49	20.96
	8H	19.27	19.86	19.79	20.37	20.86	19.31	19.90	19.82	20.41	20.90
	12H	19.29	19.81	19.79	20.30	20.86	19.30	19.82	19.80	20.31	20.87
12H	4H	18.94	19.66	19.42	20.13	20.61	19.26	19.98	19.75	20.46	20.93
	6H	19.20	19.80	19.72	20.31	20.79	19.31	19.90	19.82	20.41	20.90
	8H	19.27	19.79	19.78	20.28	20.84	19.31	19.83	19.82	20.32	20.89

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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