

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: P1498306

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498306
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-STD-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

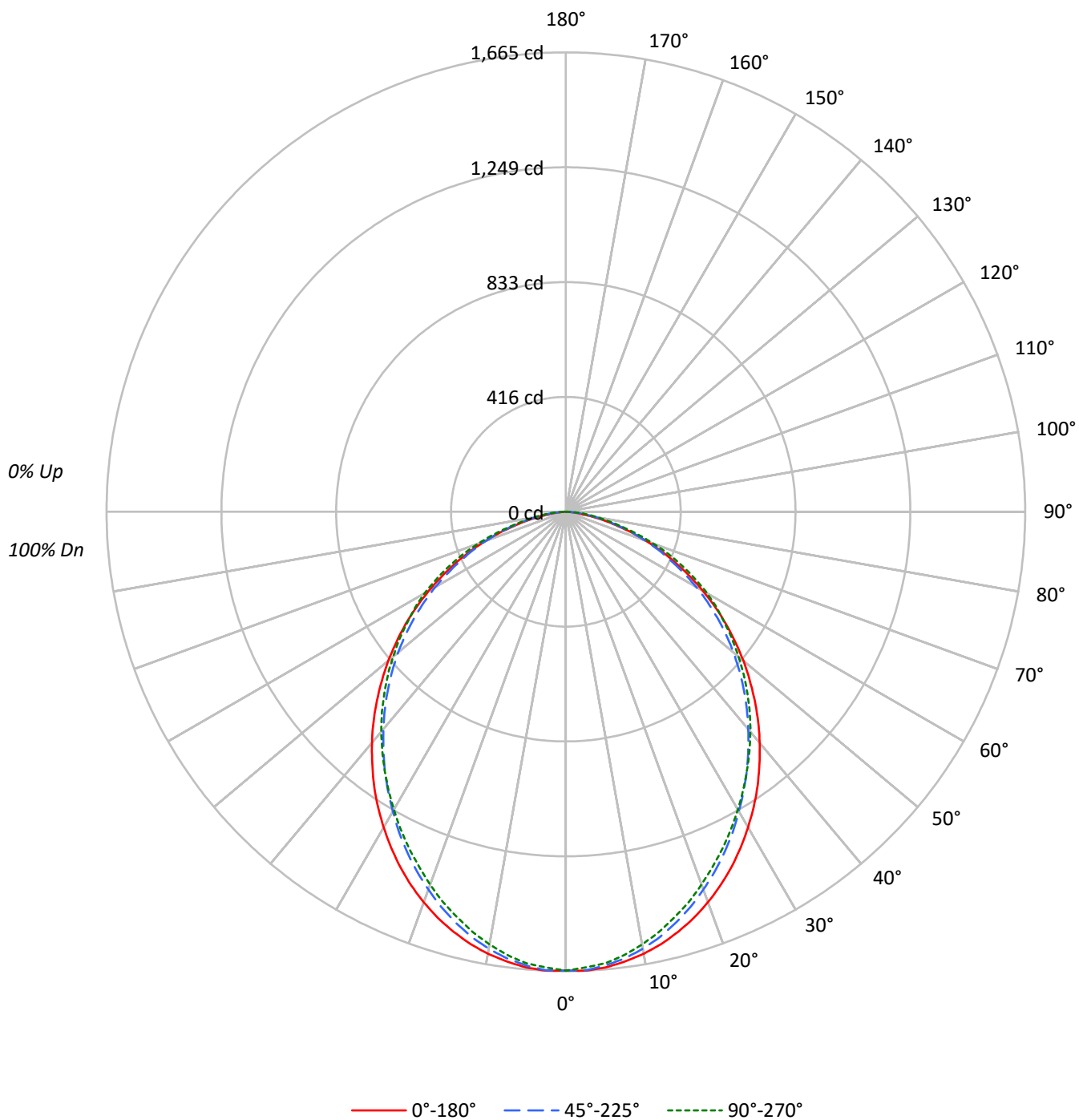
Lumens per Lamp: N/A
Luminaire Lumens: 3973.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 52.2
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	109	105	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	61	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°	4475	4475	4475
5°	4477	4460	4437
10°	4445	4395	4351
15°	4389	4295	4240
20°	4313	4172	4118
25°	4218	4041	3994
30°	4104	3895	3873
35°	3982	3757	3760
40°	3841	3614	3656
45°	3685	3471	3540
50°	3517	3319	3420
55°	3324	3143	3294
60°	3085	2941	3186
65°	2809	2682	2971
70°	2439	2416	2663
75°	1948	2067	2209
80°	1350	1610	1773
85°	756	1238	1621

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3685 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	3.9
10°-20°	434.8	10.9
20°-30°	631.1	15.9
30°-40°	725.8	18.3
40°-50°	717.9	18.1
50°-60°	614.4	15.5
60°-70°	433.9	10.9
70°-80°	212.3	5.3
80°-90°	46.8	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°	1222.0	30.8
0°-40°	1947.9	49.0
0°-60°	3280.1	82.6
0°-90°	3973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3973.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1663	1663	1663	1663	1663	
5°	1657	1656	1651	1639	1643	157
15°	1576	1566	1542	1520	1522	444
25°	1420	1399	1361	1342	1345	654
35°	1212	1182	1144	1138	1145	757
45°	968	940	912	921	930	747
55°	708	683	670	688	702	632
65°	441	421	421	453	467	437
75°	187	179	199	212	212	202
85°	24	30	40	49	52	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1663.1	1663.1	1663.1	1663.1	1663.1
2.5°	1665.0	1666.4	1663.1	1650.5	1652.7
5°	1657.4	1656.0	1650.9	1638.8	1642.6
7.5°	1644.2	1641.9	1632.7	1618.4	1620.7
10°	1626.7	1622.0	1608.3	1590.3	1592.3
12.5°	1603.9	1597.6	1578.2	1557.7	1559.7
15°	1575.6	1566.5	1541.6	1519.8	1521.8
17.5°	1543.0	1532.4	1502.2	1478.5	1483.0
20°	1506.1	1491.8	1457.0	1434.4	1438.1
22.5°	1465.3	1447.5	1411.0	1388.8	1391.5
25°	1420.5	1398.9	1361.1	1341.9	1345.2
27.5°	1372.2	1348.4	1309.4	1291.6	1296.8
30°	1320.7	1295.0	1253.6	1240.7	1246.4
32.5°	1267.7	1240.3	1199.5	1190.4	1196.1
35°	1212.0	1182.2	1143.8	1137.6	1144.7
37.5°	1152.4	1123.6	1085.8	1086.3	1092.9
40°	1093.5	1063.7	1028.7	1032.5	1040.7
42.5°	1032.0	1003.2	971.0	977.3	986.8
45°	968.2	940.4	912.0	921.1	930.1
47.5°	903.9	876.5	852.9	863.9	874.9
50°	840.2	813.8	792.9	806.6	816.9
52.5°	773.2	748.1	732.4	747.1	760.6
55°	708.4	682.9	670.0	687.8	702.2
57.5°	641.3	620.2	608.8	630.5	648.6
60°	573.3	552.5	546.5	574.5	592.0
62.5°	506.8	486.4	482.9	516.3	529.2
65°	441.2	421.2	421.2	452.8	466.6
67.5°	376.2	357.9	364.8	395.5	405.0
70°	310.0	293.6	307.1	333.4	338.5
72.5°	247.8	234.1	253.0	271.9	273.5
75°	187.4	178.8	198.8	211.8	212.5
77.5°	134.1	129.7	148.5	157.7	158.7
80°	87.1	89.0	103.9	111.4	114.4
82.5°	50.9	55.5	67.2	78.6	81.8
85°	24.5	30.0	40.1	48.9	52.5
87.5°	8.4	12.1	16.7	18.6	18.1
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	16.01	17.59	16.38	17.91	18.22	16.13	17.71	16.49	18.03	18.34
	3H	17.46	18.89	17.84	19.22	19.58	17.79	19.21	18.17	19.54	19.90
	4H	17.89	19.23	18.29	19.58	19.96	18.30	19.64	18.70	19.99	20.37
	6H	18.12	19.35	18.53	19.72	20.11	18.62	19.85	19.03	20.22	20.61
	8H	18.15	19.33	18.58	19.72	20.12	18.71	19.89	19.13	20.28	20.68
	12H	18.16	19.29	18.59	19.67	20.10	18.77	19.91	19.20	20.29	20.72
4H	2H	16.52	17.86	16.92	18.21	18.58	16.62	17.96	17.02	18.31	18.68
	3H	18.16	19.28	18.57	19.67	20.08	18.48	19.60	18.89	20.00	20.40
	4H	18.68	19.68	19.11	20.10	20.53	19.11	20.12	19.55	20.53	20.97
	6H	18.98	19.85	19.44	20.30	20.75	19.53	20.40	19.98	20.85	21.30
	8H	19.04	19.85	19.50	20.30	20.76	19.66	20.48	20.12	20.92	21.39
	12H	19.06	19.79	19.54	20.27	20.74	19.76	20.49	20.24	20.97	21.44
8H	4H	18.90	19.72	19.37	20.16	20.63	19.30	20.12	19.76	20.56	21.03
	6H	19.27	19.95	19.77	20.44	20.92	19.80	20.47	20.29	20.96	21.44
	8H	19.36	19.97	19.88	20.48	20.97	19.98	20.59	20.49	21.10	21.58
	12H	19.42	19.95	19.93	20.44	21.01	20.15	20.68	20.66	21.17	21.74
12H	4H	18.92	19.65	19.40	20.13	20.60	19.30	20.03	19.78	20.51	20.98
	6H	19.30	19.90	19.81	20.41	20.90	19.80	20.41	20.32	20.92	21.41
	8H	19.43	19.96	19.94	20.45	21.02	20.03	20.57	20.54	21.06	21.62