

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: P1498702

Luminaire Tested: MAE-G-2-120-3LO-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3LO-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

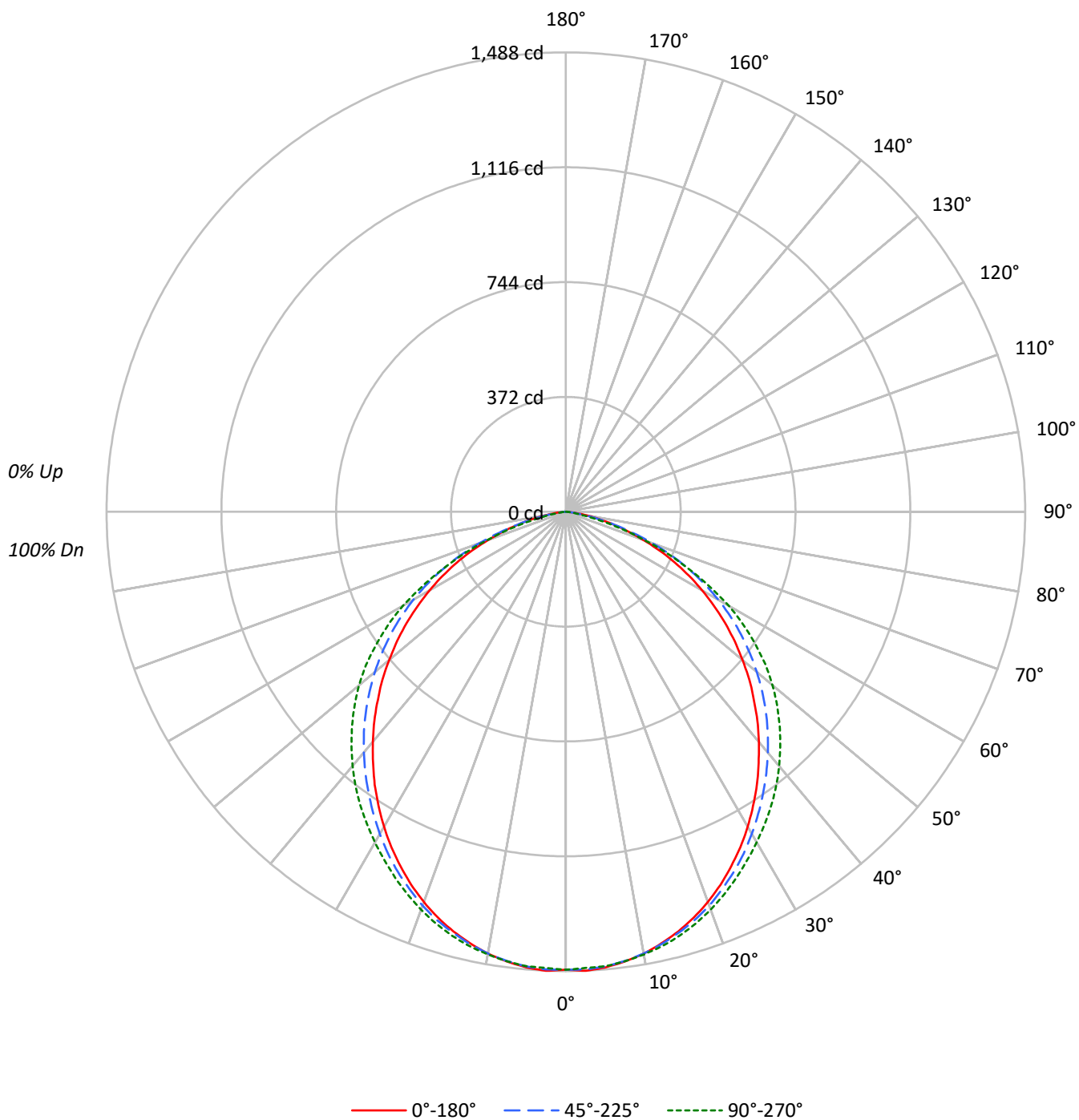
Lumens per Lamp: N/A
Luminaire Lumens: 3760.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.7
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	96	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	57	69	62	57		67	61	56		65
5	78	65	56	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	44	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	36	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°	3992	3992	3992
5°	4001	3992	3991
10°	3971	3969	3979
15°	3921	3933	3962
20°	3852	3888	3928
25°	3763	3823	3883
30°	3661	3744	3842
35°	3546	3659	3813
40°	3417	3576	3775
45°	3278	3488	3727
50°	3126	3380	3661
55°	2958	3249	3520
60°	2745	3070	3284
65°	2479	2800	2813
70°	2116	2351	2186
75°	1661	1716	1344
80°	1085	882	521
85°	519	349	275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3727 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.1	3.7
10°-20°	397.8	10.6
20°-30°	591.7	15.7
30°-40°	697.2	18.5
40°-50°	706.9	18.8
50°-60°	616.0	16.4
60°-70°	421.3	11.2
70°-80°	169.2	4.5
80°-90°	19.6	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°	1129.7	30.0
0°-40°	1826.9	48.6
0°-60°	3149.9	83.8
0°-90°	3760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3760.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1484	1484	1484	1484	1484	
5°	1481	1472	1478	1476	1477	140
15°	1407	1401	1412	1418	1422	397
25°	1267	1268	1288	1297	1308	583
35°	1079	1084	1114	1141	1161	674
45°	861	873	916	958	979	665
55°	630	644	693	736	750	563
65°	389	407	440	443	442	385
75°	160	170	165	142	129	172
85°	17	15	11	10	9	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1483.5	1483.5	1483.5	1483.5	1483.5
2.5°	1488.3	1478.4	1483.5	1482.5	1478.7
5°	1481.1	1472.1	1478.0	1476.3	1477.3
7.5°	1469.4	1461.2	1467.4	1467.1	1468.7
10°	1453.3	1445.1	1452.7	1454.0	1456.1
12.5°	1432.0	1425.2	1434.5	1437.2	1441.3
15°	1407.3	1401.2	1411.8	1417.6	1422.1
17.5°	1378.5	1373.4	1387.1	1392.6	1398.8
20°	1345.2	1341.5	1357.6	1362.7	1371.7
22.5°	1308.2	1306.2	1322.9	1330.8	1341.1
25°	1267.4	1267.8	1287.6	1296.9	1307.9
27.5°	1224.5	1225.2	1247.9	1260.9	1272.5
30°	1178.2	1180.3	1205.0	1221.1	1236.5
32.5°	1129.2	1133.3	1160.0	1182.0	1199.1
35°	1079.4	1084.2	1113.8	1141.1	1160.7
37.5°	1025.6	1033.5	1066.8	1099.4	1119.5
40°	972.8	980.6	1018.0	1054.0	1074.7
42.5°	918.3	928.2	968.0	1008.1	1028.0
45°	861.3	872.9	916.5	957.7	979.3
47.5°	806.7	817.0	863.0	905.9	928.2
50°	746.7	759.7	807.4	852.4	874.4
52.5°	689.4	701.4	750.5	796.5	816.4
55°	630.5	643.8	692.6	736.1	750.2
57.5°	570.0	586.2	633.2	669.6	682.9
60°	510.1	526.1	570.4	600.3	610.2
62.5°	450.3	467.5	506.3	526.1	526.1
65°	389.3	406.8	439.7	443.1	441.8
67.5°	328.3	345.8	370.8	364.6	360.5
70°	268.9	284.0	298.8	287.4	277.9
72.5°	211.3	225.7	228.1	211.7	199.6
75°	159.8	170.5	165.0	141.7	129.3
77.5°	111.4	117.7	106.0	82.3	72.4
80°	70.0	72.7	56.9	40.1	33.6
82.5°	37.8	38.1	24.7	20.2	18.9
85°	16.8	15.1	11.3	9.9	8.9
87.5°	5.8	5.2	4.1	3.8	3.1
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	15.74	17.32	16.10	17.63	17.95	16.72	18.30	17.08	18.62	18.93
	3H	17.15	18.57	17.52	18.89	19.26	17.92	19.35	18.30	19.67	20.03
	4H	17.54	18.87	17.94	19.22	19.60	18.14	19.47	18.54	19.82	20.20
	6H	17.71	18.95	18.13	19.31	19.70	18.16	19.39	18.57	19.76	20.15
	8H	17.73	18.90	18.15	19.29	19.69	18.13	19.31	18.56	19.70	20.10
	12H	17.72	18.84	18.15	19.23	19.65	18.11	19.23	18.54	19.61	20.04
4H	2H	16.41	17.74	16.81	18.09	18.47	17.20	18.53	17.60	18.88	19.26
	3H	17.98	19.08	18.39	19.48	19.88	18.57	19.67	18.98	20.07	20.47
	4H	18.45	19.45	18.88	19.86	20.30	18.84	19.83	19.27	20.25	20.69
	6H	18.69	19.55	19.15	20.00	20.45	18.89	19.75	19.35	20.19	20.65
	8H	18.72	19.52	19.18	19.96	20.43	18.87	19.67	19.33	20.11	20.58
	12H	18.72	19.43	19.20	19.91	20.38	18.85	19.56	19.33	20.04	20.51
8H	4H	18.60	19.40	19.06	19.85	20.31	18.96	19.76	19.42	20.21	20.67
	6H	18.87	19.53	19.37	20.02	20.50	19.02	19.68	19.51	20.17	20.65
	8H	18.91	19.50	19.42	20.01	20.50	18.99	19.59	19.51	20.10	20.58
	12H	18.93	19.45	19.44	19.94	20.50	18.98	19.50	19.49	19.99	20.56
12H	4H	18.58	19.30	19.06	19.78	20.25	18.95	19.67	19.43	20.14	20.61
	6H	18.84	19.44	19.35	19.94	20.43	18.99	19.59	19.51	20.10	20.58
	8H	18.91	19.43	19.42	19.92	20.49	19.00	19.52	19.50	20.01	20.57