

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: P1498525

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498525
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-2-120-2STD-50-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

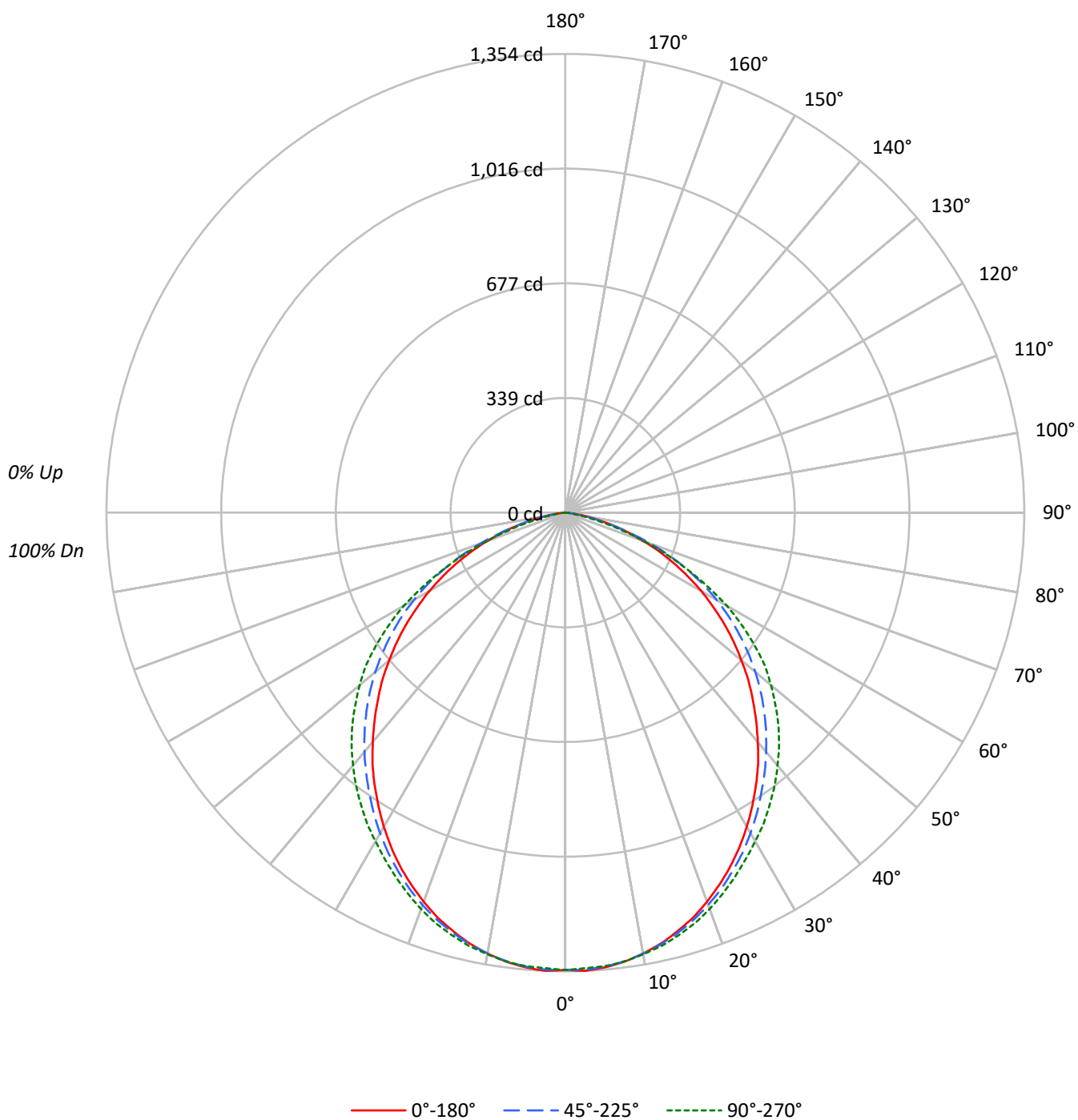
Lumens per Lamp: N/A
Luminaire Lumens: 3408.0 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
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°	3633	3633	3633
5°	3639	3633	3630
10°	3612	3612	3616
15°	3563	3576	3598
20°	3500	3529	3566
25°	3422	3467	3519
30°	3328	3396	3482
35°	3223	3313	3455
40°	3104	3239	3422
45°	2976	3158	3384
50°	2839	3063	3316
55°	2682	2940	3192
60°	2492	2776	2963
65°	2248	2522	2537
70°	1919	2099	1962
75°	1507	1520	1225
80°	979	783	470
85°	454	296	241

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3384 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.5	3.7
10°-20°	361.7	10.6
20°-30°	537.3	15.8
30°-40°	632.8	18.6
40°-50°	641.1	18.8
50°-60°	558.0	16.4
60°-70°	380.2	11.2
70°-80°	152.0	4.5
80°-90°	17.4	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°	1026.4	30.1
0°-40°	1659.2	48.7
0°-60°	2858.4	83.9
0°-90°	3408.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3408.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1350	1350	1350	1350	1350	
5°	1347	1340	1345	1343	1344	128
15°	1279	1274	1284	1288	1291	361
25°	1152	1153	1168	1177	1185	530
35°	981	986	1009	1035	1052	613
45°	782	792	830	869	889	604
55°	572	584	627	666	680	511
65°	353	370	396	397	398	350
75°	145	154	146	126	118	156
85°	15	13	10	9	8	23
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1350.1	1350.1	1350.1	1350.1	1350.1
2.5°	1353.8	1345.1	1350.1	1349.2	1345.5
5°	1347.3	1339.5	1345.1	1343.3	1343.7
7.5°	1336.8	1329.5	1335.5	1335.0	1336.4
10°	1321.7	1314.4	1321.7	1322.1	1323.5
12.5°	1302.9	1296.5	1305.2	1307.0	1310.3
15°	1279.0	1273.6	1283.6	1288.3	1291.4
17.5°	1253.4	1249.8	1259.8	1265.8	1270.8
20°	1222.2	1220.4	1232.3	1238.2	1245.1
22.5°	1188.3	1187.3	1201.6	1208.9	1215.8
25°	1152.5	1153.0	1167.7	1177.3	1185.1
27.5°	1113.1	1114.0	1131.9	1143.4	1153.0
30°	1070.9	1073.3	1092.9	1108.5	1120.5
32.5°	1026.4	1030.6	1051.7	1073.3	1088.3
35°	981.0	985.7	1008.6	1035.2	1051.7
37.5°	934.3	939.4	965.9	997.2	1014.6
40°	883.5	891.2	922.0	956.3	974.2
42.5°	833.4	842.1	876.6	914.2	933.4
45°	782.1	791.8	829.8	868.8	889.3
47.5°	732.6	740.8	781.6	822.5	840.8
50°	678.1	689.0	731.7	772.5	792.2
52.5°	625.8	636.3	679.9	721.5	741.8
55°	571.7	584.0	626.7	666.1	680.3
57.5°	517.2	531.4	572.6	605.1	617.5
60°	463.1	477.2	515.8	541.4	550.6
62.5°	408.4	423.1	457.1	472.7	474.5
65°	353.0	369.5	396.1	396.6	398.4
67.5°	300.3	314.0	333.3	327.8	325.1
70°	243.9	259.0	266.8	255.8	249.4
72.5°	193.9	204.9	203.6	187.5	179.8
75°	144.9	153.6	146.2	125.6	117.8
77.5°	100.4	107.7	93.0	73.8	66.1
80°	63.2	66.5	50.5	35.8	30.3
82.5°	33.9	33.4	21.6	17.8	16.5
85°	14.7	13.3	9.6	8.7	7.8
87.5°	5.1	4.6	3.6	3.2	2.7
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	15.40	16.98	15.76	17.29	17.61	16.36	17.94	16.72	18.25	18.57
	3H	16.82	18.24	17.20	18.57	18.93	17.55	18.97	17.93	19.30	19.66
	4H	17.21	18.55	17.61	18.89	19.27	17.76	19.10	18.16	19.44	19.82
	6H	17.39	18.62	17.80	18.98	19.37	17.78	19.01	18.19	19.38	19.77
	8H	17.40	18.57	17.83	18.96	19.36	17.76	18.93	18.18	19.32	19.72
	12H	17.39	18.51	17.82	18.89	19.32	17.73	18.86	18.16	19.24	19.67
4H	2H	16.06	17.39	16.46	17.74	18.12	16.83	18.17	17.23	18.51	18.89
	3H	17.64	18.74	18.05	19.14	19.54	18.18	19.29	18.59	19.69	20.09
	4H	18.11	19.10	18.54	19.52	19.96	18.45	19.44	18.88	19.86	20.30
	6H	18.35	19.21	18.81	19.66	20.11	18.50	19.36	18.96	19.81	20.26
	8H	18.38	19.18	18.84	19.62	20.09	18.48	19.28	18.94	19.72	20.19
	12H	18.37	19.09	18.86	19.57	20.04	18.46	19.17	18.94	19.65	20.12
8H	4H	18.25	19.05	18.71	19.50	19.96	18.57	19.37	19.03	19.81	20.28
	6H	18.53	19.19	19.02	19.68	20.15	18.63	19.29	19.12	19.78	20.25
	8H	18.56	19.15	19.08	19.66	20.15	18.60	19.19	19.11	19.70	20.19
	12H	18.58	19.10	19.08	19.59	20.15	18.59	19.11	19.10	19.60	20.16
12H	4H	18.23	18.95	18.71	19.43	19.90	18.55	19.27	19.04	19.75	20.22
	6H	18.49	19.09	19.01	19.60	20.08	18.60	19.19	19.11	19.70	20.19
	8H	18.56	19.08	19.07	19.57	20.13	18.60	19.12	19.11	19.61	20.18