

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: P1498510

Luminaire Tested: MAE-G-2-120-2STD-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498510
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-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

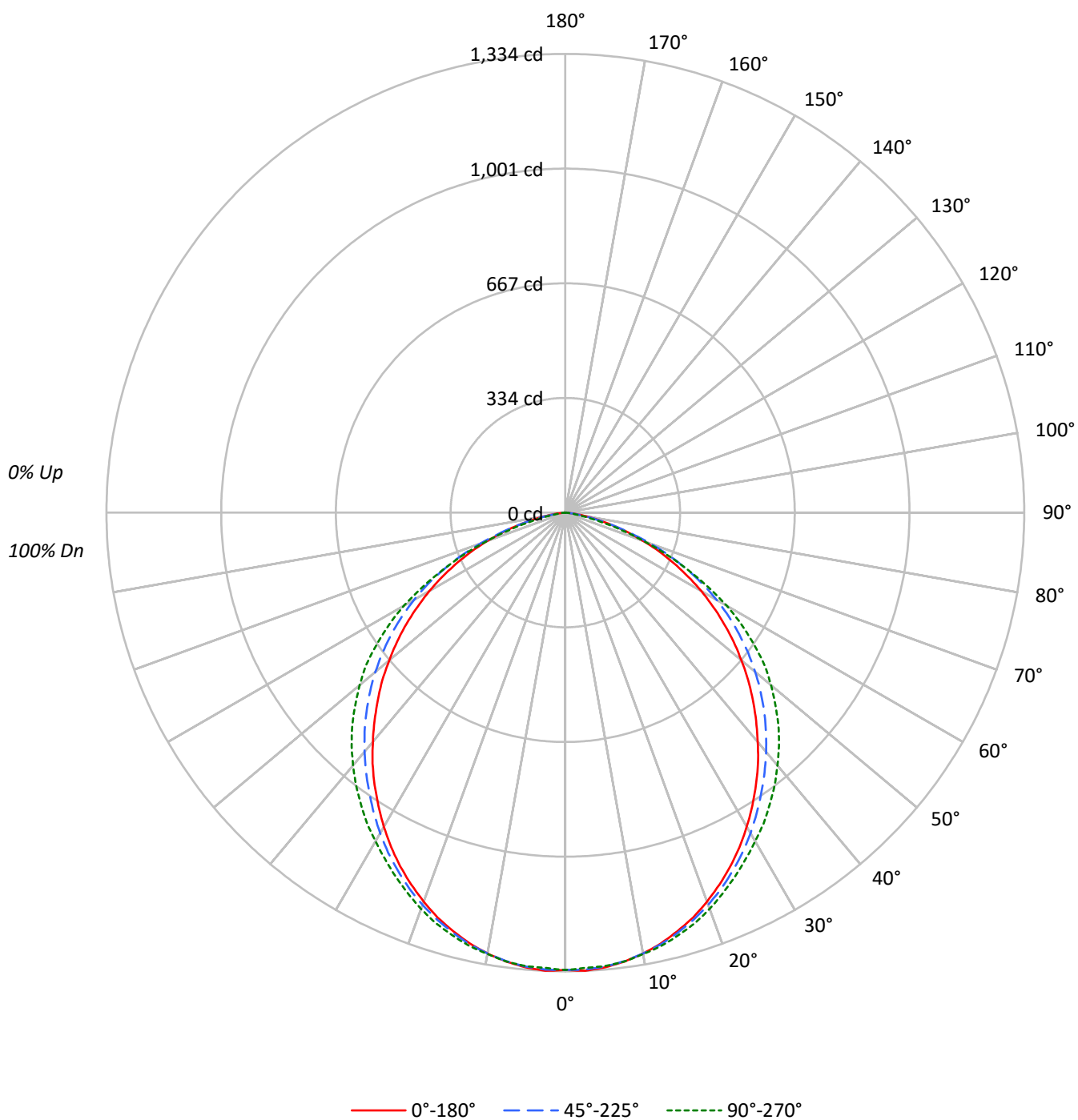
Lumens per Lamp: N/A
Luminaire Lumens: 3357.0 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3579	3579	3579
5°	3585	3579	3575
10°	3557	3557	3562
15°	3510	3522	3544
20°	3448	3476	3512
25°	3371	3415	3466
30°	3278	3345	3429
35°	3175	3264	3403
40°	3057	3190	3371
45°	2932	3110	3334
50°	2796	3017	3267
55°	2642	2896	3144
60°	2455	2734	2919
65°	2214	2485	2499
70°	1890	2068	1932
75°	1484	1497	1207
80°	965	770	462
85°	448	293	238

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3334 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	3.7
10°-20°	356.2	10.6
20°-30°	529.2	15.8
30°-40°	623.4	18.6
40°-50°	631.5	18.8
50°-60°	549.7	16.4
60°-70°	374.5	11.2
70°-80°	149.7	4.5
80°-90°	17.1	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°	1011.1	30.1
0°-40°	1634.4	48.7
0°-60°	2815.6	83.9
0°-90°	3357.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3357.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1330	1330	1330	1330	1330	
5°	1327	1320	1325	1323	1324	126
15°	1260	1254	1264	1269	1272	355
25°	1135	1136	1150	1160	1167	522
35°	966	971	994	1020	1036	604
45°	770	780	817	856	876	595
55°	563	575	617	656	670	503
65°	348	364	390	391	392	345
75°	143	151	144	124	116	154
85°	14	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°	1329.9	1329.9	1329.9	1329.9	1329.9
2.5°	1333.6	1325.0	1329.9	1329.0	1325.4
5°	1327.2	1319.5	1325.0	1323.2	1323.6
7.5°	1316.8	1309.6	1315.5	1315.0	1316.4
10°	1301.9	1294.7	1301.9	1302.3	1303.7
12.5°	1283.4	1277.1	1285.7	1287.5	1290.6
15°	1259.9	1254.5	1264.4	1269.0	1272.1
17.5°	1234.7	1231.1	1240.9	1246.8	1251.8
20°	1203.9	1202.1	1213.9	1219.7	1226.5
22.5°	1170.5	1169.6	1183.7	1190.8	1197.6
25°	1135.2	1135.7	1150.2	1159.7	1167.4
27.5°	1096.4	1097.3	1115.0	1126.3	1135.7
30°	1054.9	1057.2	1076.6	1091.9	1103.7
32.5°	1011.1	1015.2	1035.9	1057.2	1072.1
35°	966.4	971.0	993.5	1019.7	1035.9
37.5°	920.4	925.3	951.5	982.2	999.4
40°	870.2	877.8	908.2	942.0	959.6
42.5°	820.9	829.5	863.5	900.5	919.5
45°	770.4	779.9	817.3	855.8	876.0
47.5°	721.6	729.7	769.9	810.2	828.2
50°	667.9	678.7	720.7	761.0	780.3
52.5°	616.4	626.8	669.7	710.7	730.7
55°	563.1	575.3	617.3	656.2	670.1
57.5°	509.4	523.4	564.0	596.1	608.2
60°	456.1	470.1	508.0	533.3	542.4
62.5°	402.3	416.8	450.2	465.6	467.4
65°	347.7	364.0	390.2	390.7	392.5
67.5°	295.8	309.3	328.3	322.9	320.2
70°	240.2	255.1	262.8	252.0	245.6
72.5°	191.0	201.8	200.5	184.6	177.1
75°	142.7	151.3	144.0	123.8	116.1
77.5°	98.9	106.1	91.6	72.7	65.1
80°	62.3	65.5	49.7	35.2	29.8
82.5°	33.4	32.9	21.3	17.6	16.3
85°	14.5	13.1	9.5	8.6	7.7
87.5°	5.0	4.5	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	15.35	16.93	15.71	17.24	17.56	16.31	17.89	16.67	18.20	18.52
	3H	16.77	18.19	17.14	18.51	18.87	17.50	18.92	17.87	19.24	19.60
	4H	17.16	18.49	17.56	18.84	19.22	17.71	19.04	18.11	19.39	19.77
	6H	17.33	18.56	17.75	18.93	19.32	17.73	18.96	18.14	19.33	19.72
	8H	17.35	18.52	17.77	18.91	19.31	17.71	18.88	18.13	19.27	19.67
	12H	17.34	18.46	17.77	18.84	19.27	17.68	18.80	18.11	19.18	19.61
4H	2H	16.01	17.34	16.41	17.69	18.06	16.78	18.11	17.18	18.46	18.84
	3H	17.58	18.69	17.99	19.09	19.49	18.13	19.23	18.54	19.63	20.03
	4H	18.06	19.05	18.49	19.47	19.90	18.40	19.39	18.83	19.81	20.24
	6H	18.30	19.16	18.76	19.60	20.06	18.45	19.31	18.91	19.75	20.21
	8H	18.32	19.13	18.79	19.57	20.04	18.43	19.23	18.89	19.67	20.14
	12H	18.32	19.04	18.80	19.52	19.99	18.40	19.12	18.89	19.60	20.07
8H	4H	18.20	19.00	18.66	19.44	19.91	18.51	19.32	18.98	19.76	20.23
	6H	18.47	19.13	18.97	19.62	20.10	18.57	19.23	19.07	19.72	20.20
	8H	18.51	19.10	19.02	19.61	20.10	18.55	19.14	19.06	19.65	20.14
	12H	18.52	19.04	19.03	19.54	20.10	18.53	19.05	19.04	19.55	20.11
12H	4H	18.18	18.90	18.66	19.37	19.84	18.50	19.22	18.98	19.70	20.17
	6H	18.44	19.03	18.95	19.54	20.03	18.55	19.14	19.06	19.65	20.14
	8H	18.51	19.03	19.01	19.52	20.08	18.55	19.07	19.06	19.56	20.13