

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: P1498207

Luminaire Tested: MAE-G-2-120-1LO-STD-40-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498207
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-2-120-1LO-STD-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

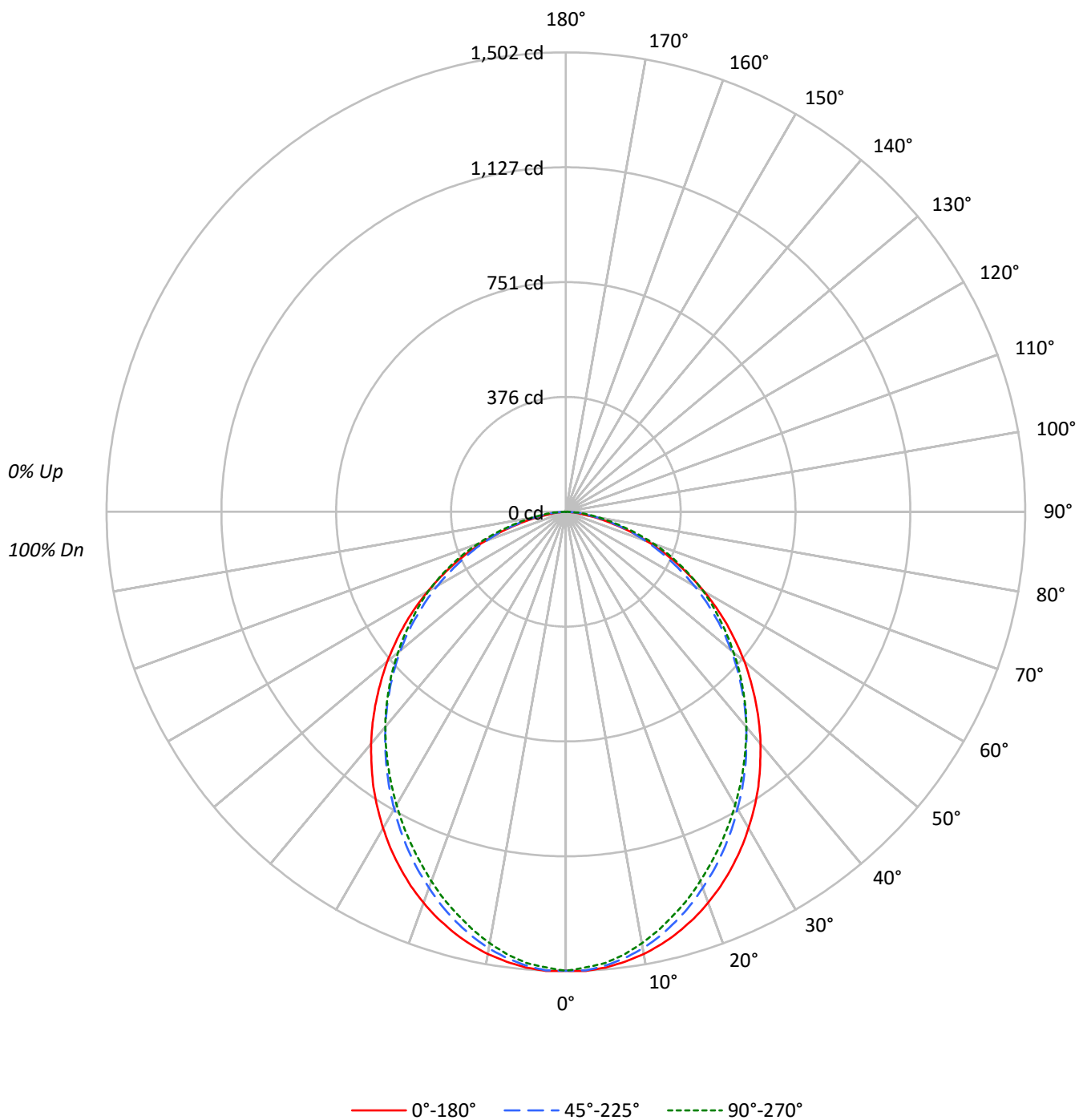
Lumens per Lamp: N/A
Luminaire Lumens: 3563.0 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	98	95	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	84	73	64	58	82	71	63	57	69	62	56		66	60	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°	4039	4039	4039
5°	4041	4024	4000
10°	4012	3961	3914
15°	3964	3865	3801
20°	3897	3747	3680
25°	3812	3623	3558
30°	3712	3487	3439
35°	3604	3358	3329
40°	3479	3224	3226
45°	3340	3092	3115
50°	3192	2954	2999
55°	3019	2795	2884
60°	2808	2614	2792
65°	2561	2390	2634
70°	2227	2172	2408
75°	1784	1891	2071
80°	1241	1520	1729
85°	701	1201	1599

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3340 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	4.0
10°-20°	391.2	11.0
20°-30°	566.2	15.9
30°-40°	649.3	18.2
40°-50°	640.6	18.0
50°-60°	547.2	15.4
60°-70°	388.2	10.9
70°-80°	194.8	5.5
80°-90°	44.9	1.3
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°	1098.1	30.8
0°-40°	1747.4	49.0
0°-60°	2935.2	82.4
0°-90°	3563.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3563.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1501	1501	1501	1501	1501	
5°	1496	1495	1490	1477	1481	142
15°	1423	1413	1387	1364	1364	401
25°	1284	1262	1220	1197	1198	591
35°	1097	1066	1022	1010	1014	685
45°	878	848	813	814	818	677
55°	644	616	596	605	615	574
65°	402	380	375	402	414	398
75°	172	162	182	197	199	185
85°	23	28	39	48	52	32
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1500.8	1500.8	1500.8	1500.8	1500.8
2.5°	1502.5	1503.9	1500.8	1488.8	1491.4
5°	1495.8	1494.7	1489.5	1477.4	1480.9
7.5°	1484.0	1481.6	1472.3	1457.7	1459.9
10°	1468.4	1463.7	1449.5	1431.0	1432.4
12.5°	1448.0	1441.3	1421.3	1399.6	1400.9
15°	1422.7	1413.2	1387.2	1363.5	1364.5
17.5°	1393.6	1382.2	1350.4	1324.5	1327.5
20°	1360.7	1345.5	1308.6	1283.3	1285.2
22.5°	1324.2	1305.5	1266.2	1241.0	1241.7
25°	1284.0	1261.5	1220.3	1197.2	1198.2
27.5°	1240.9	1215.9	1172.7	1150.8	1153.3
30°	1194.7	1167.6	1122.1	1104.1	1106.8
32.5°	1147.1	1118.1	1072.8	1058.0	1060.6
35°	1097.1	1065.5	1022.1	1009.7	1013.5
37.5°	1043.5	1012.9	969.5	962.8	966.1
40°	990.4	958.7	917.8	914.0	918.4
42.5°	935.0	904.1	865.7	864.0	869.5
45°	877.7	847.5	812.6	813.5	818.4
47.5°	819.8	790.1	759.6	762.2	768.8
50°	762.4	733.5	705.6	710.8	716.3
52.5°	701.7	674.3	651.6	657.6	666.2
55°	643.5	615.6	595.8	604.9	614.7
57.5°	583.0	559.0	541.4	554.4	567.5
60°	521.7	498.3	485.7	505.2	518.7
62.5°	461.5	438.7	429.7	455.2	466.2
65°	402.2	380.1	375.4	401.9	413.7
67.5°	343.0	323.1	325.7	353.3	361.8
70°	283.1	265.1	276.0	300.4	306.0
72.5°	226.5	211.7	228.9	248.3	251.1
75°	171.6	162.1	181.9	196.8	199.2
77.5°	123.1	118.1	137.7	149.5	152.2
80°	80.1	81.9	98.1	108.1	111.6
82.5°	46.9	51.5	64.7	76.6	80.4
85°	22.7	28.2	38.9	47.9	51.8
87.5°	7.8	11.5	16.4	18.3	17.8
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	15.68	17.26	16.04	17.58	17.89	15.61	17.19	15.97	17.50	17.82
	3H	17.14	18.57	17.52	18.90	19.26	17.33	18.75	17.70	19.08	19.44
	4H	17.58	18.92	17.98	19.27	19.65	17.89	19.23	18.29	19.58	19.96
	6H	17.81	19.05	18.22	19.42	19.81	18.26	19.50	18.67	19.86	20.25
	8H	17.85	19.03	18.27	19.42	19.82	18.37	19.56	18.80	19.95	20.35
	12H	17.85	18.99	18.28	19.37	19.80	18.46	19.59	18.89	19.97	20.40
4H	2H	16.17	17.51	16.57	17.86	18.24	16.11	17.45	16.51	17.80	18.18
	3H	17.83	18.94	18.24	19.34	19.74	18.04	19.16	18.45	19.56	19.96
	4H	18.35	19.36	18.78	19.77	20.21	18.73	19.73	19.16	20.15	20.59
	6H	18.66	19.54	19.12	19.98	20.44	19.21	20.09	19.66	20.53	20.98
	8H	18.72	19.54	19.19	19.99	20.45	19.37	20.19	19.83	20.63	21.10
	12H	18.75	19.48	19.23	19.96	20.43	19.49	20.23	19.97	20.70	21.17
8H	4H	18.59	19.41	19.05	19.85	20.32	18.93	19.75	19.39	20.19	20.65
	6H	18.97	19.65	19.47	20.14	20.62	19.50	20.18	20.00	20.67	21.14
	8H	19.07	19.67	19.58	20.18	20.67	19.72	20.33	20.23	20.84	21.32
	12H	19.12	19.66	19.63	20.15	20.72	19.92	20.45	20.42	20.94	21.51
12H	4H	18.61	19.34	19.09	19.82	20.29	18.93	19.66	19.41	20.14	20.61
	6H	19.00	19.61	19.51	20.12	20.61	19.51	20.12	20.02	20.63	21.12
	8H	19.14	19.68	19.65	20.17	20.73	19.78	20.32	20.29	20.81	21.37