

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: P1499623

Luminaire Tested: MAE-G-4-120-3LO-LO-40-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499623
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-4-120-3LO-LO-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

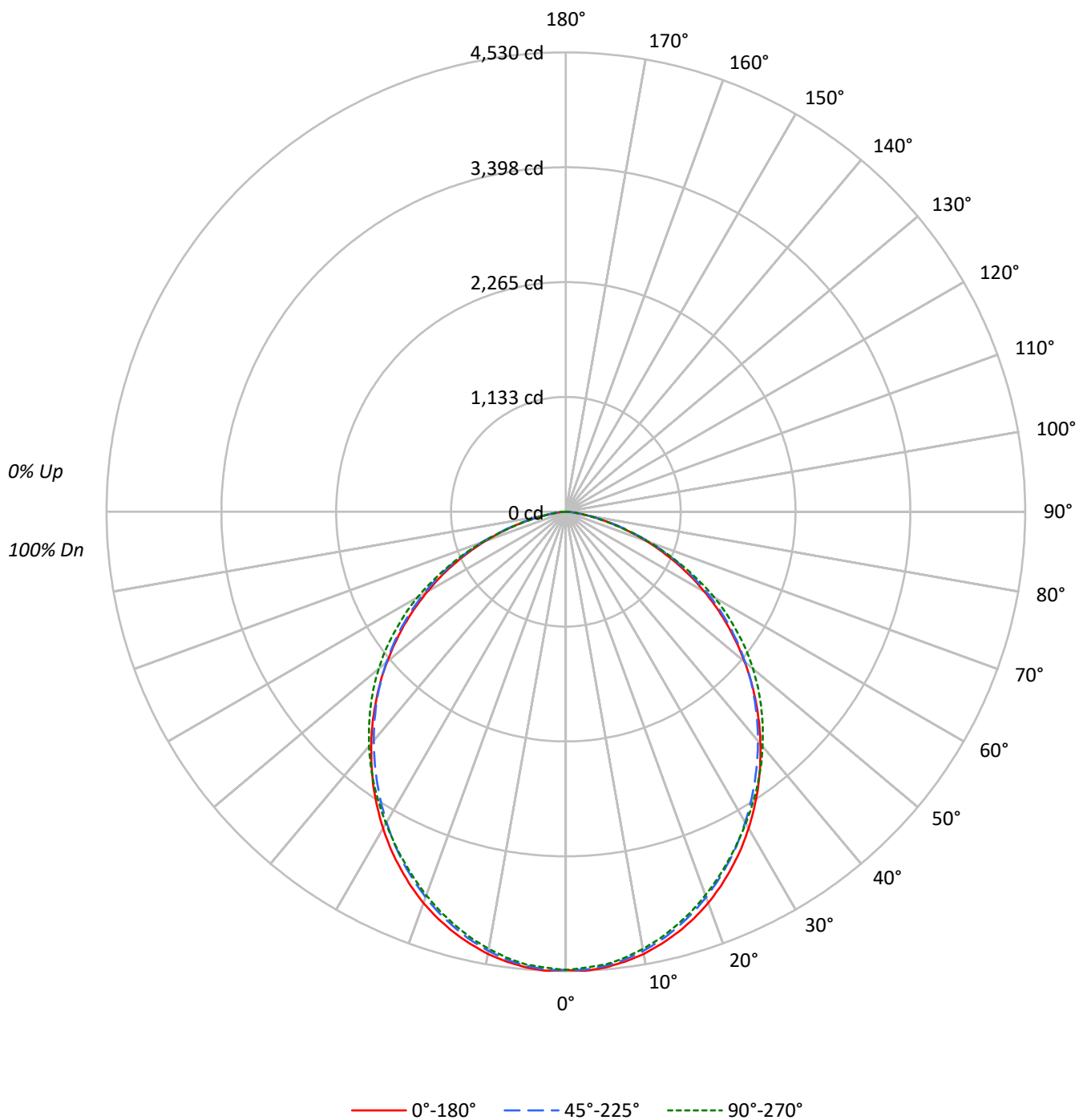
Lumens per Lamp: N/A
Luminaire Lumens: 11124.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 120.2
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	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	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		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	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	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	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6080	6080	6080
5°	6091	6072	6052
10°	6049	6009	5980
15°	5975	5911	5881
20°	5877	5793	5762
25°	5749	5653	5633
30°	5601	5495	5512
35°	5434	5333	5411
40°	5245	5176	5303
45°	5040	5016	5183
50°	4816	4834	5042
55°	4564	4623	4835
60°	4250	4353	4558
65°	3861	3987	4074
70°	3325	3462	3433
75°	2641	2746	2560
80°	1777	1795	1660
85°	912	1121	1360

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5183 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.5	3.8
10°-20°	1195.7	10.7
20°-30°	1756.2	15.8
30°-40°	2045.0	18.4
40°-50°	2049.8	18.4
50°-60°	1771.6	15.9
60°-70°	1232.4	11.1
70°-80°	552.6	5.0
80°-90°	95.3	0.9
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°	3377.4	30.4
0°-40°	5422.3	48.7
0°-60°	9243.7	83.1
0°-90°	11124.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11124.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4519	4519	4519	4519	4519	
5°	4510	4490	4495	4475	4481	428
15°	4290	4262	4244	4215	4222	1209
25°	3872	3838	3808	3779	3794	1783
35°	3308	3268	3247	3262	3294	2067
45°	2649	2620	2636	2689	2724	2044
55°	1946	1925	1971	2038	2061	1737
65°	1213	1210	1252	1275	1280	1198
75°	508	513	528	508	492	546
85°	59	63	73	84	88	88
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4518.9	4518.9	4518.9	4518.9	4518.9
2.5°	4530.3	4511.4	4518.9	4502.8	4499.6
5°	4509.9	4490.5	4495.4	4474.7	4480.8
7.5°	4474.9	4454.4	4454.1	4431.5	4437.1
10°	4427.4	4403.2	4398.1	4372.6	4376.9
12.5°	4364.1	4339.3	4328.2	4299.1	4306.3
15°	4289.8	4262.5	4243.7	4215.2	4221.8
17.5°	4203.7	4173.6	4151.1	4117.7	4128.6
20°	4104.8	4072.5	4045.5	4010.1	4024.3
22.5°	3994.1	3960.2	3929.3	3897.6	3912.0
25°	3872.2	3838.0	3807.8	3779.0	3794.0
27.5°	3744.1	3705.9	3675.6	3655.1	3671.7
30°	3605.3	3565.9	3536.7	3524.3	3548.0
32.5°	3458.7	3419.9	3394.3	3395.4	3422.7
35°	3308.3	3267.5	3247.1	3262.2	3294.0
37.5°	3146.6	3112.4	3098.9	3127.7	3160.1
40°	2986.3	2950.7	2947.1	2985.1	3019.1
42.5°	2820.5	2789.0	2793.3	2841.8	2873.6
45°	2648.8	2619.7	2635.9	2689.3	2723.9
47.5°	2480.2	2450.3	2475.5	2533.8	2571.2
50°	2300.9	2276.7	2309.3	2374.6	2408.8
52.5°	2122.7	2099.5	2141.2	2209.9	2243.0
55°	1945.5	1924.6	1970.8	2037.6	2061.3
57.5°	1762.0	1750.3	1798.0	1856.5	1881.3
60°	1579.5	1569.5	1617.6	1671.6	1693.8
62.5°	1396.7	1391.2	1436.8	1480.4	1487.7
65°	1212.6	1209.7	1252.3	1275.4	1279.8
67.5°	1026.6	1028.8	1067.5	1079.0	1078.3
70°	845.2	845.1	880.0	882.7	872.6
72.5°	668.9	674.0	696.3	690.2	674.2
75°	508.1	512.7	528.2	507.8	492.5
77.5°	358.5	362.4	368.8	346.3	336.8
80°	229.4	236.4	231.6	220.8	214.3
82.5°	128.1	135.2	131.0	140.8	145.2
85°	59.1	63.3	72.6	83.5	88.1
87.5°	20.1	23.9	29.8	31.8	29.6
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	17.20	18.79	17.57	19.10	19.41	17.62	19.21	17.99	19.52	19.83
	3H	18.65	20.07	19.03	20.40	20.76	19.03	20.45	19.41	20.78	21.14
	4H	19.07	20.40	19.47	20.75	21.13	19.39	20.73	19.79	21.08	21.45
	6H	19.27	20.50	19.68	20.87	21.26	19.54	20.78	19.95	21.14	21.54
	8H	19.29	20.47	19.72	20.86	21.26	19.57	20.75	19.99	21.13	21.53
	12H	19.29	20.42	19.72	20.80	21.23	19.58	20.71	20.01	21.09	21.52
4H	2H	17.79	19.13	18.19	19.48	19.85	18.13	19.47	18.53	19.82	20.19
	3H	19.41	20.52	19.82	20.92	21.32	19.72	20.83	20.13	21.23	21.63
	4H	19.91	20.91	20.35	21.33	21.77	20.17	21.17	20.60	21.58	22.02
	6H	20.19	21.06	20.64	21.50	21.96	20.39	21.26	20.84	21.70	22.16
	8H	20.23	21.04	20.69	21.48	21.95	20.43	21.24	20.89	21.68	22.15
	12H	20.24	20.96	20.72	21.44	21.91	20.46	21.18	20.94	21.66	22.13
8H	4H	20.10	20.91	20.56	21.35	21.82	20.33	21.14	20.79	21.58	22.05
	6H	20.42	21.09	20.92	21.58	22.06	20.59	21.26	21.09	21.75	22.23
	8H	20.49	21.08	21.00	21.59	22.08	20.66	21.26	21.17	21.77	22.25
	12H	20.52	21.05	21.03	21.54	22.10	20.72	21.25	21.23	21.74	22.30
12H	4H	20.09	20.82	20.57	21.29	21.76	20.32	21.05	20.80	21.53	22.00
	6H	20.41	21.01	20.93	21.52	22.01	20.59	21.19	21.10	21.69	22.18
	8H	20.51	21.04	21.02	21.53	22.09	20.68	21.21	21.19	21.70	22.27