

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: P1499686

Luminaire Tested: MAE-G-4-120-3STD-HI-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499686
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-4-120-3STD-HI-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

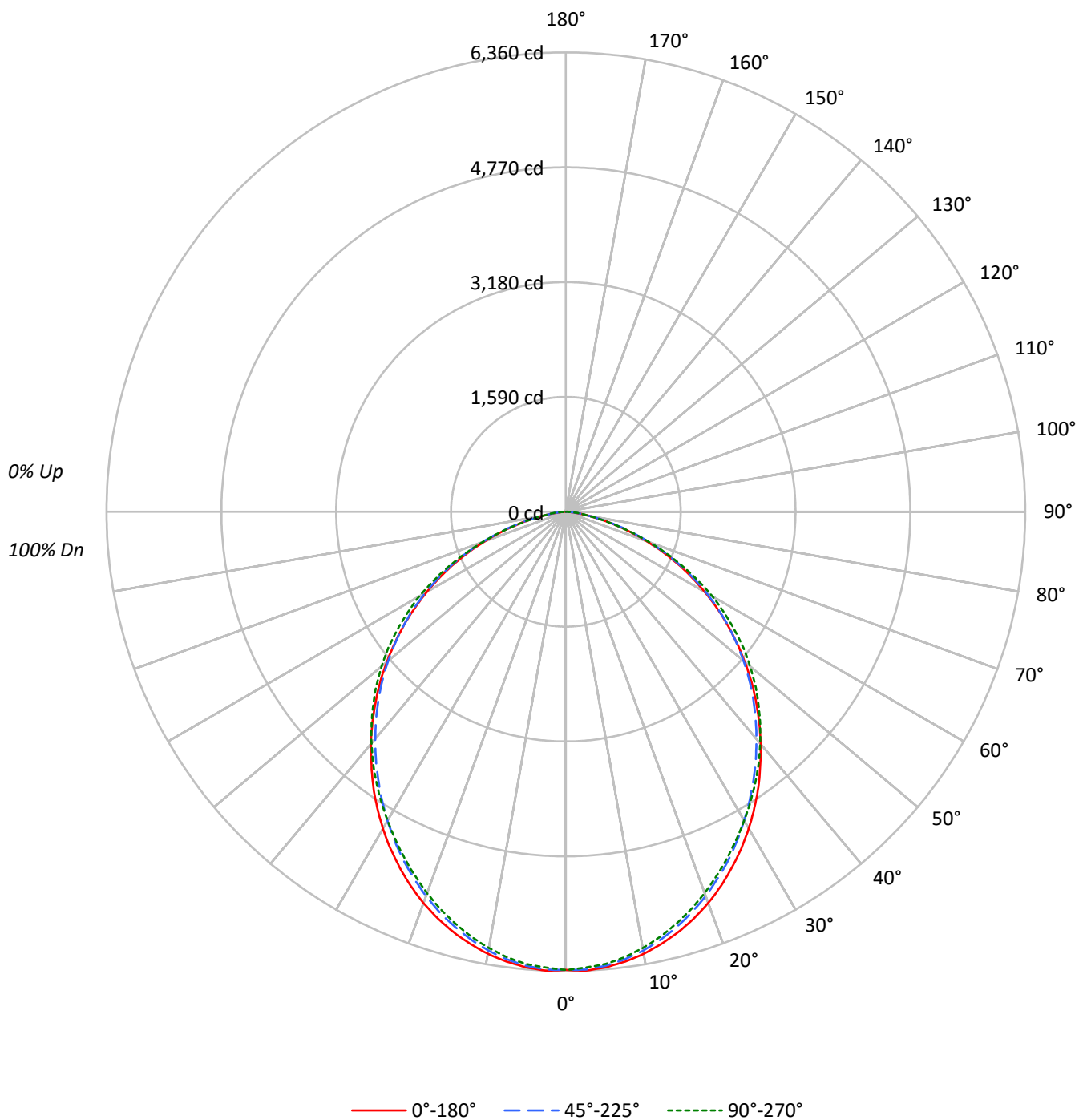
Lumens per Lamp: N/A
Luminaire Lumens: 15550.0 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 191.3
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86		
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61		
4	84	73	64	58	82	71	63	57	69	62	57	66	61	56	64	59	55	53		
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8536	8536	8536
5°	8551	8522	8491
10°	8492	8429	8379
15°	8390	8283	8225
20°	8254	8106	8045
25°	8074	7902	7850
30°	7869	7672	7669
35°	7636	7439	7515
40°	7372	7212	7353
45°	7086	6981	7176
50°	6773	6722	6970
55°	6419	6424	6681
60°	5982	6045	6308
65°	5438	5541	5677
70°	4688	4836	4840
75°	3731	3883	3699
80°	2521	2612	2509
85°	1306	1694	2101

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7176 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.0	3.8
10°-20°	1675.4	10.8
20°-30°	2456.2	15.8
30°-40°	2854.9	18.4
40°-50°	2856.5	18.4
50°-60°	2465.7	15.9
60°-70°	1719.9	11.1
70°-80°	783.3	5.0
80°-90°	141.1	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°	4728.6	30.4
0°-40°	7583.4	48.8
0°-60°	12905.7	83.0
0°-90°	15550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15550.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6344	6344	6344	6344	6344	
5°	6331	6306	6310	6278	6287	601
15°	6023	5983	5946	5897	5904	1697
25°	5439	5384	5322	5270	5288	2504
35°	4649	4580	4529	4536	4575	2905
45°	3724	3670	3669	3729	3771	2873
55°	2736	2694	2738	2819	2848	2443
65°	1708	1692	1740	1775	1783	1688
75°	718	718	747	728	712	771
85°	85	92	110	128	136	125
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6344.3	6344.3	6344.3	6344.3	6344.3
2.5°	6359.5	6335.5	6344.3	6319.0	6316.1
5°	6331.2	6305.7	6310.0	6277.8	6286.8
7.5°	6282.2	6254.3	6250.1	6214.0	6221.9
10°	6215.7	6182.1	6169.2	6127.3	6132.9
12.5°	6127.3	6091.6	6068.1	6019.5	6028.6
15°	6023.2	5983.1	5946.3	5896.7	5904.5
17.5°	5902.7	5857.5	5812.6	5755.5	5769.1
20°	5764.4	5714.8	5661.3	5601.1	5618.5
22.5°	5609.4	5556.1	5495.9	5440.1	5456.8
25°	5438.8	5383.5	5322.4	5270.4	5287.7
27.5°	5259.2	5197.5	5134.6	5093.7	5113.1
30°	5064.9	5000.4	4937.8	4907.9	4936.4
32.5°	4859.8	4794.9	4736.8	4725.0	4758.3
35°	4648.9	4580.2	4528.9	4536.1	4575.1
37.5°	4422.2	4362.2	4319.8	4345.9	4385.3
40°	4197.3	4135.0	4106.1	4144.7	4186.6
42.5°	3964.5	3907.8	3889.9	3942.9	3981.6
45°	3723.9	3669.9	3668.7	3728.9	3771.3
47.5°	3486.7	3432.2	3444.1	3511.2	3557.4
50°	3235.7	3188.7	3211.4	3288.4	3329.8
52.5°	2984.9	2940.1	2976.4	3058.4	3099.2
55°	2736.4	2694.5	2738.5	2818.8	2848.2
57.5°	2478.9	2450.1	2497.5	2569.0	2600.5
60°	2222.8	2196.8	2246.5	2314.8	2344.2
62.5°	1966.0	1946.4	1995.6	2053.4	2065.1
65°	1708.0	1692.3	1740.4	1775.2	1783.3
67.5°	1446.7	1439.5	1486.0	1508.3	1509.7
70°	1191.8	1182.4	1229.4	1240.6	1230.4
72.5°	944.3	943.5	977.9	978.3	960.0
75°	717.7	718.5	746.9	728.3	711.5
77.5°	507.2	509.5	527.1	505.8	496.4
80°	325.3	334.9	337.1	330.2	323.8
82.5°	182.4	193.9	195.4	213.9	221.8
85°	84.6	92.4	109.7	128.2	136.1
87.5°	28.8	35.3	45.3	48.7	45.6
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	18.38	19.97	18.75	20.28	20.59	18.71	20.30	19.08	20.61	20.93
	3H	19.83	21.26	20.21	21.59	21.95	20.15	21.58	20.53	21.91	22.27
	4H	20.26	21.59	20.65	21.94	22.32	20.54	21.88	20.94	22.23	22.61
	6H	20.46	21.70	20.87	22.06	22.45	20.72	21.96	21.13	22.32	22.71
	8H	20.49	21.66	20.91	22.05	22.45	20.75	21.93	21.18	22.32	22.72
	12H	20.48	21.61	20.91	21.99	22.42	20.77	21.90	21.20	22.28	22.71
4H	2H	18.96	20.30	19.36	20.64	21.02	19.23	20.57	19.63	20.91	21.29
	3H	20.59	21.70	21.00	22.10	22.50	20.85	21.97	21.26	22.37	22.77
	4H	21.09	22.09	21.53	22.51	22.95	21.33	22.33	21.76	22.75	23.18
	6H	21.37	22.24	21.83	22.68	23.14	21.58	22.45	22.04	22.89	23.35
	8H	21.41	22.23	21.88	22.67	23.14	21.64	22.45	22.10	22.89	23.36
	12H	21.43	22.15	21.91	22.63	23.10	21.68	22.40	22.16	22.88	23.35
8H	4H	21.28	22.09	21.74	22.54	23.00	21.50	22.31	21.96	22.75	23.22
	6H	21.61	22.29	22.11	22.77	23.25	21.80	22.47	22.30	22.96	23.44
	8H	21.68	22.28	22.19	22.79	23.28	21.88	22.48	22.40	22.99	23.48
	12H	21.72	22.25	22.22	22.74	23.30	21.96	22.49	22.47	22.98	23.54
12H	4H	21.28	22.01	21.76	22.48	22.95	21.49	22.22	21.98	22.70	23.17
	6H	21.61	22.21	22.12	22.72	23.21	21.79	22.40	22.31	22.91	23.39
	8H	21.71	22.24	22.22	22.73	23.30	21.91	22.44	22.42	22.93	23.50