

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: P1499536

Luminaire Tested: MAE-G-4-120-3HI-STD-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499536
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-4-120-3HI-STD-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

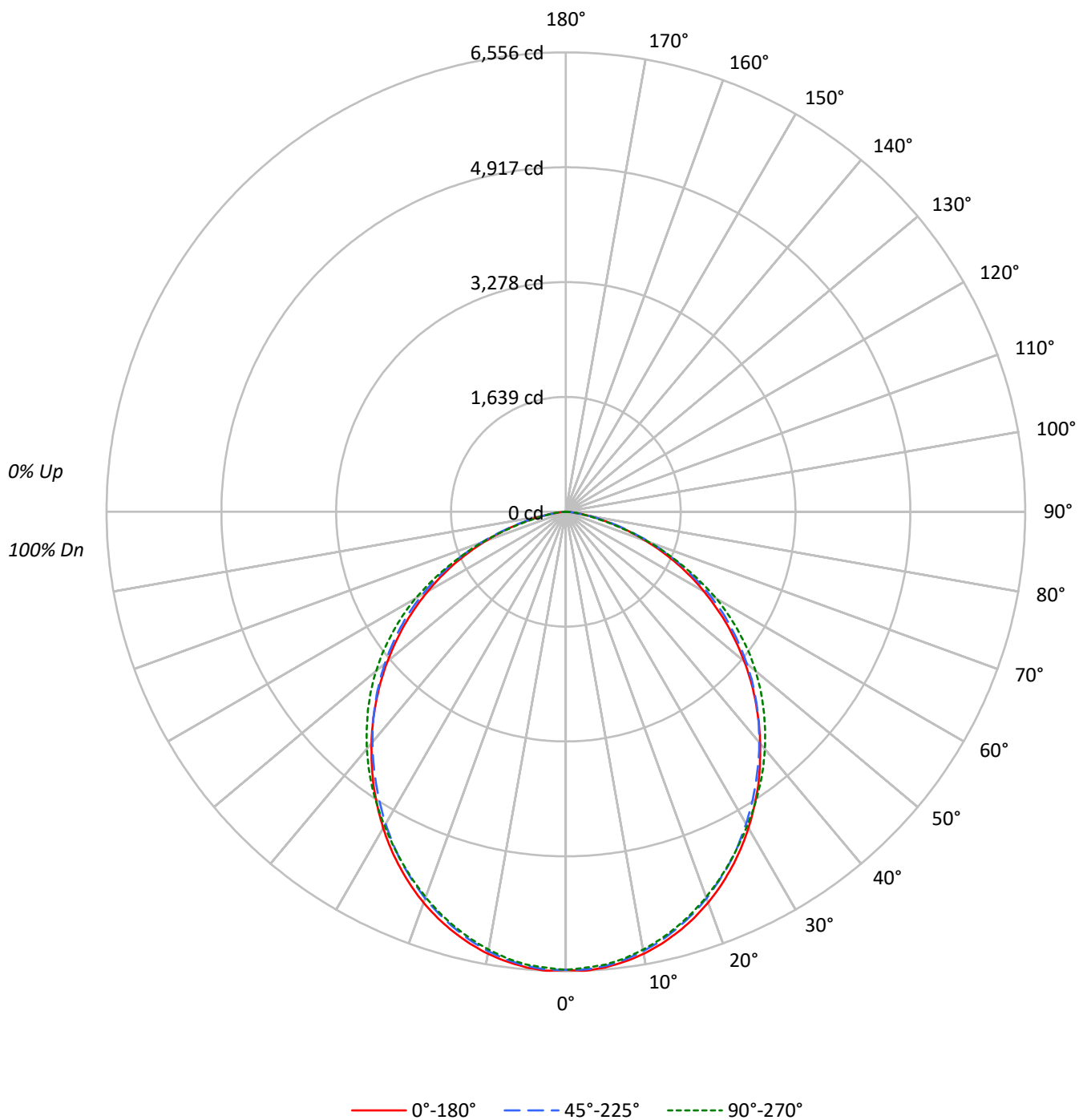
Lumens per Lamp: N/A
Luminaire Lumens: 16160.0 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 201.4
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	93	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°	8798	8798	8798
5°	8814	8787	8762
10°	8752	8702	8668
15°	8645	8569	8539
20°	8502	8407	8381
25°	8315	8213	8205
30°	8100	7991	8042
35°	7856	7764	7906
40°	7581	7543	7760
45°	7284	7315	7596
50°	6958	7056	7400
55°	6592	6753	7099
60°	6137	6361	6682
65°	5570	5823	5937
70°	4791	5033	4947
75°	3800	3947	3605
80°	2547	2508	2233
85°	1297	1507	1785

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7596 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.9	3.8
10°-20°	1733.2	10.7
20°-30°	2550.2	15.8
30°-40°	2974.3	18.4
40°-50°	2986.1	18.5
50°-60°	2583.8	16.0
60°-70°	1793.2	11.1
70°-80°	792.3	4.9
80°-90°	131.0	0.8
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°	4899.3	30.3
0°-40°	7873.6	48.7
0°-60°	13443.5	83.2
0°-90°	16160.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16160.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6539	6539	6539	6539	6539	
5°	6526	6496	6506	6479	6487	619
15°	6206	6169	6152	6119	6130	1749
25°	5601	5558	5532	5502	5527	2579
35°	4783	4735	4727	4762	4813	2988
45°	3828	3798	3844	3936	3992	2953
55°	2810	2792	2879	2988	3026	2508
65°	1749	1756	1829	1860	1865	1729
75°	731	743	759	720	693	785
85°	84	88	98	110	116	125
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6538.6	6538.6	6538.6	6538.6	6538.6
2.5°	6555.6	6526.2	6538.6	6517.8	6511.4
5°	6525.8	6496.3	6505.9	6479.1	6487.1
7.5°	6475.0	6444.5	6447.9	6419.5	6427.5
10°	6406.0	6371.0	6369.1	6337.9	6344.5
12.5°	6314.2	6279.0	6270.7	6235.8	6247.4
15°	6206.5	6168.6	6151.5	6119.1	6130.1
17.5°	6081.6	6040.9	6020.7	5982.4	5999.5
20°	5938.1	5895.4	5871.2	5829.9	5853.1
22.5°	5777.5	5733.8	5705.0	5670.1	5694.2
25°	5600.6	5558.0	5532.0	5501.5	5526.7
27.5°	5414.7	5367.4	5342.8	5325.0	5352.8
30°	5213.4	5165.4	5143.5	5137.6	5176.3
32.5°	5000.9	4954.7	4938.4	4953.0	4997.4
35°	4783.0	4734.7	4726.7	4761.8	4813.3
37.5°	4548.5	4510.4	4513.3	4568.7	4621.3
40°	4316.4	4276.4	4294.4	4363.2	4418.0
42.5°	4076.4	4043.1	4072.1	4156.6	4208.2
45°	3827.8	3798.2	3844.4	3935.7	3991.9
47.5°	3584.2	3552.9	3611.8	3710.3	3770.4
50°	3324.1	3301.6	3370.7	3479.2	3535.2
52.5°	3067.1	3045.2	3126.4	3239.9	3293.0
55°	2810.1	2791.9	2878.7	2988.1	3026.2
57.5°	2544.5	2539.5	2627.2	2722.0	2761.0
60°	2280.4	2277.5	2364.0	2449.4	2483.0
62.5°	2016.0	2019.4	2099.6	2166.0	2175.1
65°	1749.4	1756.1	1829.0	1859.9	1864.7
67.5°	1480.2	1493.5	1556.7	1567.4	1564.1
70°	1217.8	1226.8	1279.3	1275.7	1257.4
72.5°	962.9	977.8	1007.2	989.9	962.6
75°	731.0	743.1	759.3	719.8	693.4
77.5°	515.1	523.5	524.7	482.4	464.5
80°	328.7	339.1	323.7	300.2	288.2
82.5°	182.8	191.9	178.8	188.3	193.0
85°	84.0	88.2	97.6	110.5	115.6
87.5°	28.7	33.0	39.7	42.0	38.9
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	18.49	20.07	18.85	20.38	20.70	18.98	20.57	19.35	20.88	21.20
	3H	19.93	21.35	20.30	21.68	22.04	20.36	21.78	20.74	22.11	22.47
	4H	20.34	21.68	20.74	22.03	22.40	20.70	22.04	21.10	22.39	22.76
	6H	20.54	21.77	20.95	22.14	22.53	20.83	22.07	21.24	22.43	22.82
	8H	20.56	21.74	20.99	22.13	22.53	20.85	22.02	21.27	22.41	22.81
	12H	20.56	21.69	20.99	22.07	22.50	20.85	21.98	21.28	22.36	22.79
4H	2H	19.09	20.42	19.48	20.77	21.15	19.49	20.83	19.89	21.17	21.55
	3H	20.70	21.81	21.11	22.21	22.61	21.05	22.16	21.46	22.56	22.96
	4H	21.20	22.20	21.63	22.61	23.05	21.47	22.47	21.90	22.88	23.32
	6H	21.47	22.33	21.92	22.78	23.23	21.66	22.53	22.11	22.97	23.43
	8H	21.50	22.31	21.97	22.76	23.22	21.69	22.50	22.15	22.94	23.41
	12H	21.51	22.24	21.99	22.71	23.19	21.71	22.43	22.19	22.91	23.38
8H	4H	21.37	22.19	21.84	22.63	23.09	21.62	22.43	22.08	22.88	23.34
	6H	21.69	22.36	22.19	22.85	23.33	21.85	22.52	22.35	23.01	23.49
	8H	21.75	22.35	22.27	22.86	23.35	21.90	22.50	22.42	23.01	23.50
	12H	21.78	22.31	22.29	22.80	23.36	21.95	22.48	22.46	22.97	23.53
12H	4H	21.37	22.09	21.85	22.57	23.04	21.62	22.34	22.10	22.82	23.29
	6H	21.68	22.28	22.19	22.79	23.28	21.84	22.44	22.35	22.95	23.44
	8H	21.77	22.30	22.28	22.79	23.36	21.92	22.45	22.43	22.94	23.51