

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: P1499542

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499542
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-35-90-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

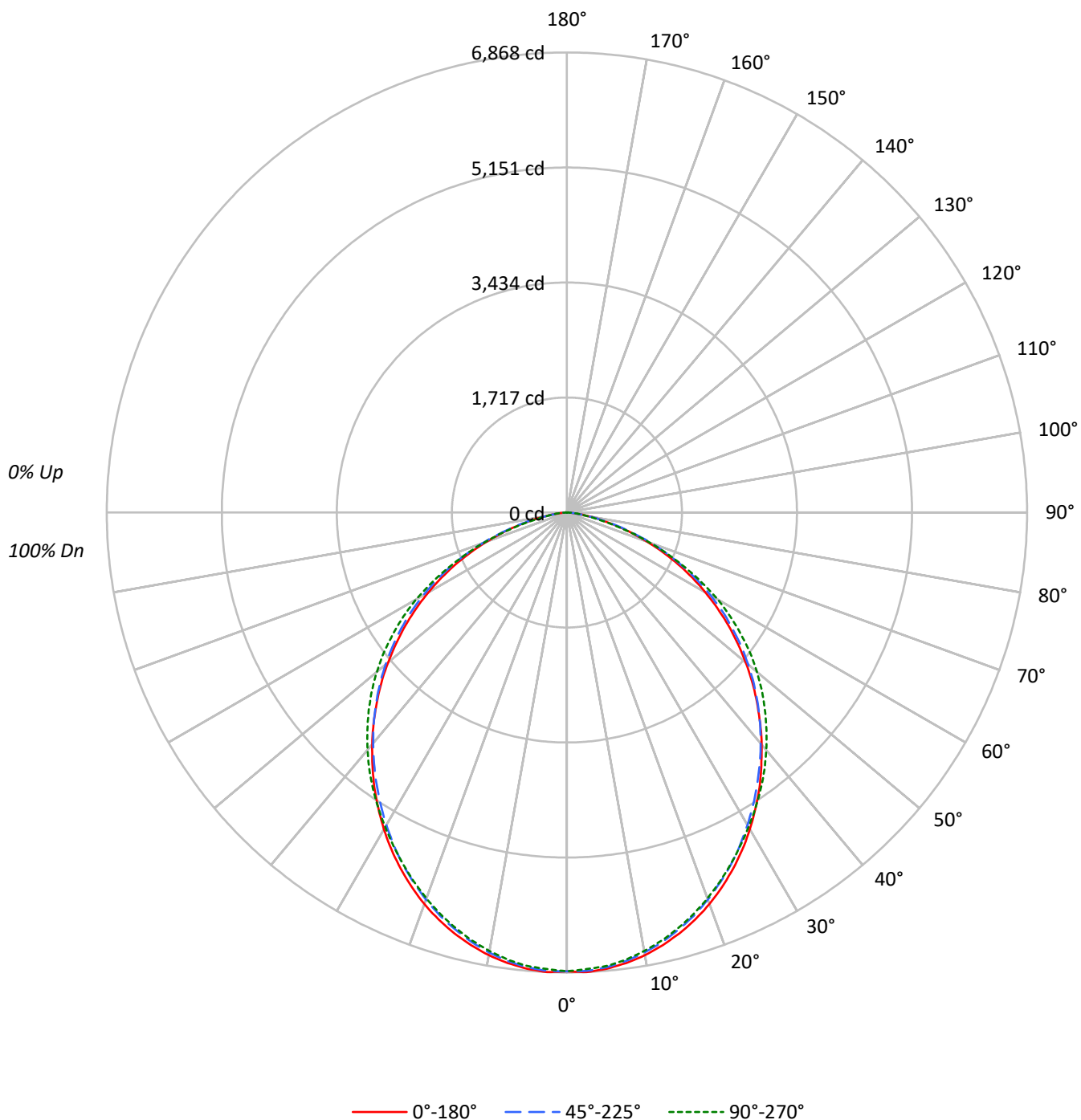
Lumens per Lamp: N/A
Luminaire Lumens: 16930.0 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	9217	9217	9217
5°	9234	9206	9179
10°	9169	9116	9081
15°	9057	8977	8946
20°	8907	8807	8780
25°	8711	8604	8596
30°	8486	8372	8425
35°	8231	8134	8283
40°	7943	7902	8130
45°	7631	7664	7958
50°	7290	7392	7752
55°	6906	7075	7437
60°	6429	6665	7000
65°	5835	6100	6219
70°	5019	5272	5182
75°	3981	4135	3776
80°	2669	2628	2340
85°	1359	1578	1870

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7958 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	645.2	3.8
10°-20°	1815.8	10.7
20°-30°	2671.7	15.8
30°-40°	3116.0	18.4
40°-50°	3128.4	18.5
50°-60°	2706.9	16.0
60°-70°	1878.6	11.1
70°-80°	830.0	4.9
80°-90°	137.2	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°	5132.7	30.3
0°-40°	8248.8	48.7
0°-60°	14084.1	83.2
0°-90°	16930.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16930.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6850	6850	6850	6850	6850	
5°	6837	6806	6816	6788	6796	648
15°	6502	6463	6445	6411	6422	1832
25°	5868	5823	5796	5764	5790	2701
35°	5011	4960	4952	4989	5043	3131
45°	4010	3979	4028	4123	4182	3094
55°	2944	2925	3016	3131	3170	2628
65°	1833	1840	1916	1949	1954	1811
75°	766	779	796	754	726	823
85°	88	92	102	116	121	131
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6850.1	6850.1	6850.1	6850.1	6850.1
2.5°	6867.9	6837.1	6850.1	6828.3	6821.7
5°	6836.7	6805.9	6815.9	6787.7	6796.2
7.5°	6783.6	6751.6	6755.0	6725.3	6733.6
10°	6711.2	6674.5	6672.5	6639.8	6646.7
12.5°	6615.1	6578.2	6569.4	6532.9	6545.1
15°	6502.2	6462.6	6444.6	6410.7	6422.2
17.5°	6371.4	6328.7	6307.6	6267.4	6285.4
20°	6221.0	6176.3	6150.9	6107.7	6132.0
22.5°	6052.7	6007.0	5976.8	5940.3	5965.5
25°	5867.5	5822.8	5795.5	5763.6	5790.1
27.5°	5672.7	5623.1	5597.3	5578.8	5607.8
30°	5461.8	5411.5	5388.5	5382.4	5423.0
32.5°	5239.1	5190.7	5173.7	5189.0	5235.5
35°	5011.0	4960.3	4951.9	4988.7	5042.6
37.5°	4765.3	4725.3	4728.3	4786.4	4841.5
40°	4522.1	4480.2	4499.0	4571.1	4628.7
42.5°	4270.7	4235.7	4266.1	4354.7	4408.7
45°	4010.2	3979.2	4027.6	4123.2	4182.1
47.5°	3755.0	3722.2	3783.9	3887.2	3950.0
50°	3482.5	3458.9	3531.3	3644.9	3703.6
52.5°	3213.2	3190.3	3275.4	3394.3	3450.0
55°	2944.0	2924.9	3015.9	3130.6	3170.4
57.5°	2665.8	2660.6	2752.3	2851.7	2892.5
60°	2389.0	2386.0	2476.7	2566.1	2601.3
62.5°	2112.1	2115.6	2199.6	2269.1	2278.7
65°	1832.8	1839.8	1916.1	1948.6	1953.5
67.5°	1550.7	1564.7	1630.9	1642.0	1638.6
70°	1275.8	1285.2	1340.2	1336.5	1317.3
72.5°	1008.8	1024.5	1055.3	1037.1	1008.4
75°	765.8	778.6	795.5	754.1	726.4
77.5°	539.6	548.4	549.6	505.4	486.6
80°	344.4	355.3	339.2	314.6	302.0
82.5°	191.5	201.1	187.3	197.3	202.2
85°	88.0	92.4	102.2	115.8	121.1
87.5°	30.0	34.6	41.5	44.0	40.7
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	18.65	20.23	19.01	20.55	20.86	19.15	20.73	19.51	21.04	21.36
	3H	20.09	21.51	20.47	21.84	22.20	20.52	21.95	20.90	22.27	22.63
	4H	20.50	21.84	20.90	22.19	22.57	20.86	22.20	21.26	22.55	22.93
	6H	20.70	21.94	21.11	22.30	22.69	20.99	22.23	21.40	22.59	22.98
	8H	20.72	21.90	21.15	22.29	22.69	21.01	22.19	21.43	22.57	22.97
	12H	20.72	21.85	21.15	22.23	22.66	21.01	22.14	21.44	22.52	22.95
4H	2H	19.25	20.58	19.65	20.93	21.31	19.65	20.99	20.05	21.34	21.71
	3H	20.86	21.97	21.27	22.37	22.77	21.21	22.32	21.62	22.72	23.12
	4H	21.36	22.36	21.79	22.77	23.21	21.63	22.63	22.06	23.04	23.48
	6H	21.63	22.50	22.08	22.94	23.40	21.82	22.69	22.28	23.13	23.59
	8H	21.67	22.48	22.13	22.92	23.39	21.85	22.66	22.31	23.10	23.57
	12H	21.67	22.40	22.16	22.88	23.35	21.87	22.59	22.35	23.07	23.54
8H	4H	21.54	22.35	22.00	22.79	23.26	21.78	22.59	22.25	23.04	23.50
	6H	21.85	22.52	22.35	23.01	23.49	22.01	22.68	22.51	23.17	23.65
	8H	21.91	22.51	22.43	23.02	23.51	22.07	22.66	22.58	23.17	23.66
	12H	21.94	22.47	22.45	22.96	23.53	22.11	22.64	22.62	23.13	23.69
12H	4H	21.53	22.25	22.01	22.73	23.20	21.78	22.50	22.26	22.98	23.45
	6H	21.84	22.44	22.36	22.95	23.44	22.00	22.60	22.52	23.11	23.60
	8H	21.94	22.46	22.44	22.95	23.52	22.09	22.61	22.59	23.11	23.67

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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