

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: P1499662

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499662
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-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

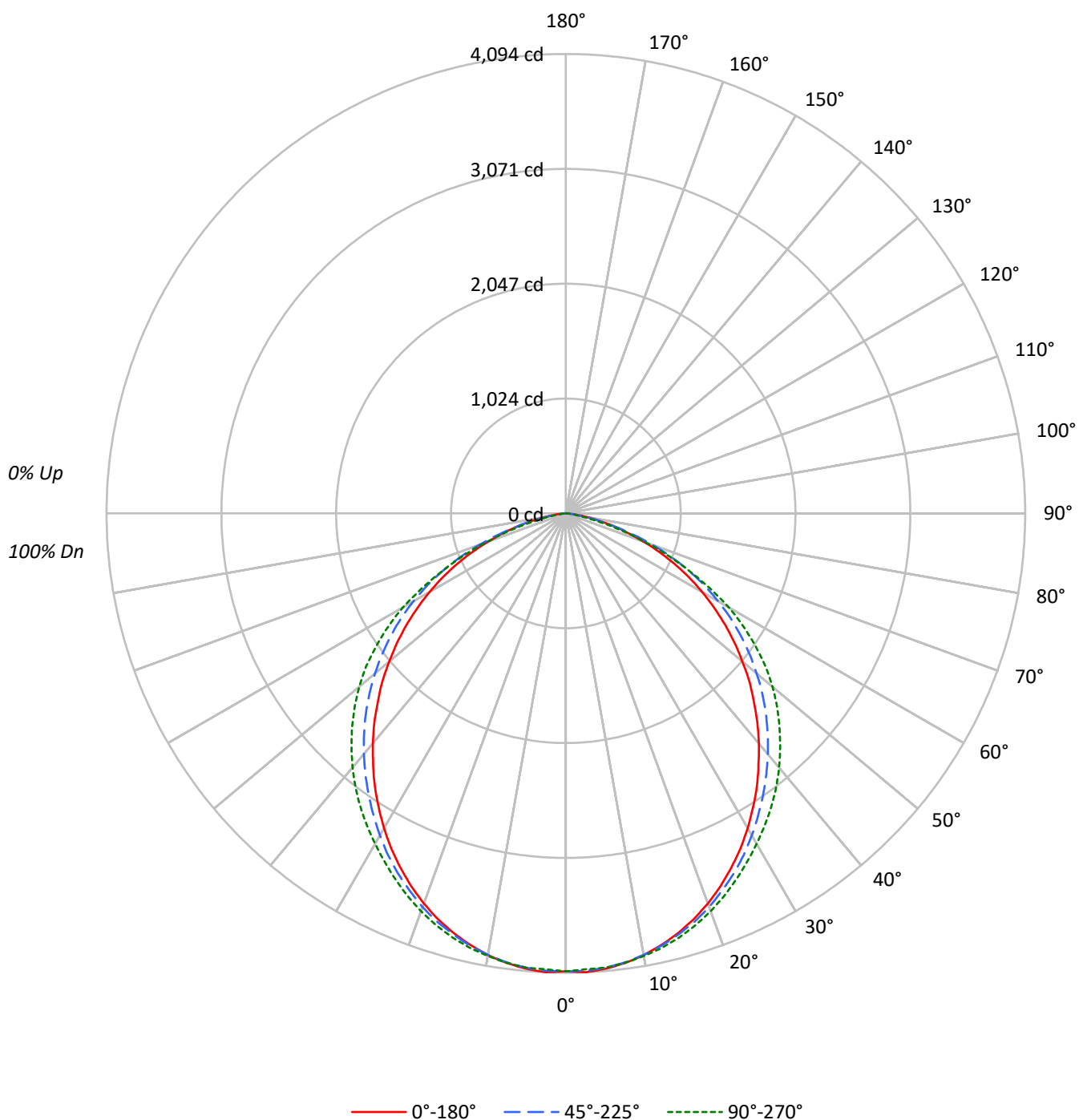
Lumens per Lamp: N/A
Luminaire Lumens: 10342.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 102.4
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	64	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	65	59	55	55	55	53
5	78	65	56	50	76	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5490	5490	5490
5°	5502	5491	5488
10°	5462	5459	5472
15°	5392	5409	5449
20°	5298	5347	5402
25°	5175	5258	5340
30°	5035	5149	5284
35°	4877	5032	5244
40°	4699	4918	5192
45°	4508	4797	5125
50°	4299	4649	5034
55°	4068	4468	4840
60°	3775	4222	4517
65°	3409	3851	3869
70°	2910	3233	3007
75°	2285	2359	1849
80°	1492	1213	716
85°	715	480	380

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5125 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.5	3.7
10°-20°	1094.3	10.6
20°-30°	1627.5	15.7
30°-40°	1917.8	18.5
40°-50°	1944.4	18.8
50°-60°	1694.3	16.4
60°-70°	1158.8	11.2
70°-80°	465.5	4.5
80°-90°	54.0	0.5
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°	3107.2	30.0
0°-40°	5025.0	48.6
0°-60°	8663.8	83.8
0°-90°	10342.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10342.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4080	4080	4080	4080	4080	
5°	4074	4049	4065	4061	4063	386
15°	3871	3854	3883	3899	3912	1091
25°	3486	3487	3542	3567	3597	1605
35°	2969	2982	3064	3139	3193	1855
45°	2369	2401	2521	2634	2694	1829
55°	1734	1771	1905	2025	2063	1548
65°	1071	1119	1210	1219	1215	1059
75°	440	469	454	390	356	472
85°	46	42	31	27	25	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4080.5	4080.5	4080.5	4080.5	4080.5
2.5°	4093.6	4066.3	4080.5	4077.5	4067.1
5°	4073.8	4049.2	4065.2	4060.7	4063.4
7.5°	4041.7	4019.2	4036.1	4035.2	4039.8
10°	3997.5	3974.7	3995.6	3999.4	4005.0
12.5°	3938.9	3920.1	3945.6	3953.1	3964.3
15°	3870.9	3854.0	3883.2	3899.3	3911.6
17.5°	3791.7	3777.5	3815.2	3830.4	3847.3
20°	3700.1	3689.9	3734.1	3748.3	3772.9
22.5°	3598.4	3592.7	3638.8	3660.5	3688.9
25°	3486.0	3487.0	3541.6	3567.3	3597.3
27.5°	3368.1	3370.0	3432.4	3468.0	3500.1
30°	3240.7	3246.4	3314.3	3358.8	3401.1
32.5°	3105.8	3117.1	3190.7	3251.2	3298.3
35°	2969.0	2982.2	3063.5	3138.8	3192.6
37.5°	2821.0	2842.6	2934.2	3023.9	3079.3
40°	2675.6	2697.3	2800.1	2899.2	2955.9
42.5°	2525.7	2553.0	2662.5	2772.8	2827.4
45°	2369.1	2401.0	2520.9	2634.1	2693.6
47.5°	2218.9	2247.3	2373.7	2491.7	2553.0
50°	2053.8	2089.7	2220.8	2344.5	2404.9
52.5°	1896.4	1929.3	2064.2	2190.8	2245.4
55°	1734.1	1770.8	1904.9	2024.6	2063.4
57.5°	1567.9	1612.3	1741.6	1841.7	1878.4
60°	1403.0	1447.2	1569.0	1651.1	1678.4
62.5°	1238.7	1286.0	1392.5	1447.2	1447.2
65°	1070.8	1119.0	1209.5	1218.8	1215.1
67.5°	902.9	951.1	1019.9	1002.8	991.5
70°	739.6	781.1	821.8	790.5	764.3
72.5°	581.2	620.8	627.5	582.2	549.1
75°	439.6	469.0	453.8	389.7	355.7
77.5°	306.5	323.6	291.5	226.5	199.1
80°	192.5	200.0	156.6	110.3	92.4
82.5°	103.8	104.7	68.0	55.7	51.9
85°	46.3	41.5	31.1	27.3	24.6
87.5°	16.1	14.2	11.3	10.4	8.5
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	16.84	18.43	17.21	18.74	19.05	17.83	19.41	18.19	19.72	20.04
	3H	18.25	19.67	18.63	20.00	20.36	19.03	20.45	19.41	20.78	21.14
	4H	18.65	19.98	19.05	20.33	20.71	19.25	20.58	19.65	20.93	21.31
	6H	18.82	20.05	19.23	20.42	20.81	19.26	20.50	19.68	20.86	21.25
	8H	18.84	20.01	19.26	20.40	20.80	19.24	20.42	19.67	20.80	21.20
	12H	18.83	19.95	19.26	20.33	20.76	19.22	20.34	19.65	20.72	21.15
4H	2H	17.51	18.85	17.91	19.20	19.57	18.30	19.64	18.70	19.99	20.36
	3H	19.08	20.19	19.49	20.59	20.99	19.67	20.78	20.08	21.18	21.58
	4H	19.56	20.55	19.99	20.97	21.40	19.95	20.94	20.38	21.35	21.79
	6H	19.80	20.66	20.25	21.10	21.56	20.00	20.86	20.45	21.30	21.76
	8H	19.82	20.63	20.28	21.07	21.54	19.97	20.78	20.44	21.22	21.69
	12H	19.82	20.54	20.30	21.02	21.49	19.95	20.67	20.43	21.15	21.62
8H	4H	19.70	20.51	20.17	20.95	21.42	20.06	20.87	20.53	21.31	21.78
	6H	19.98	20.64	20.47	21.13	21.61	20.12	20.79	20.62	21.28	21.75
	8H	20.02	20.61	20.53	21.12	21.61	20.10	20.69	20.61	21.20	21.69
	12H	20.03	20.56	20.54	21.05	21.61	20.09	20.61	20.60	21.10	21.66
12H	4H	19.69	20.40	20.17	20.88	21.35	20.05	20.77	20.53	21.25	21.72
	6H	19.95	20.54	20.46	21.05	21.54	20.10	20.69	20.61	21.20	21.69
	8H	20.02	20.54	20.52	21.03	21.59	20.10	20.62	20.61	21.12	21.68