

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: P1499398

Luminaire Tested: MAE-G-4-120-2STD-HI-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499398
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2STD-HI-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

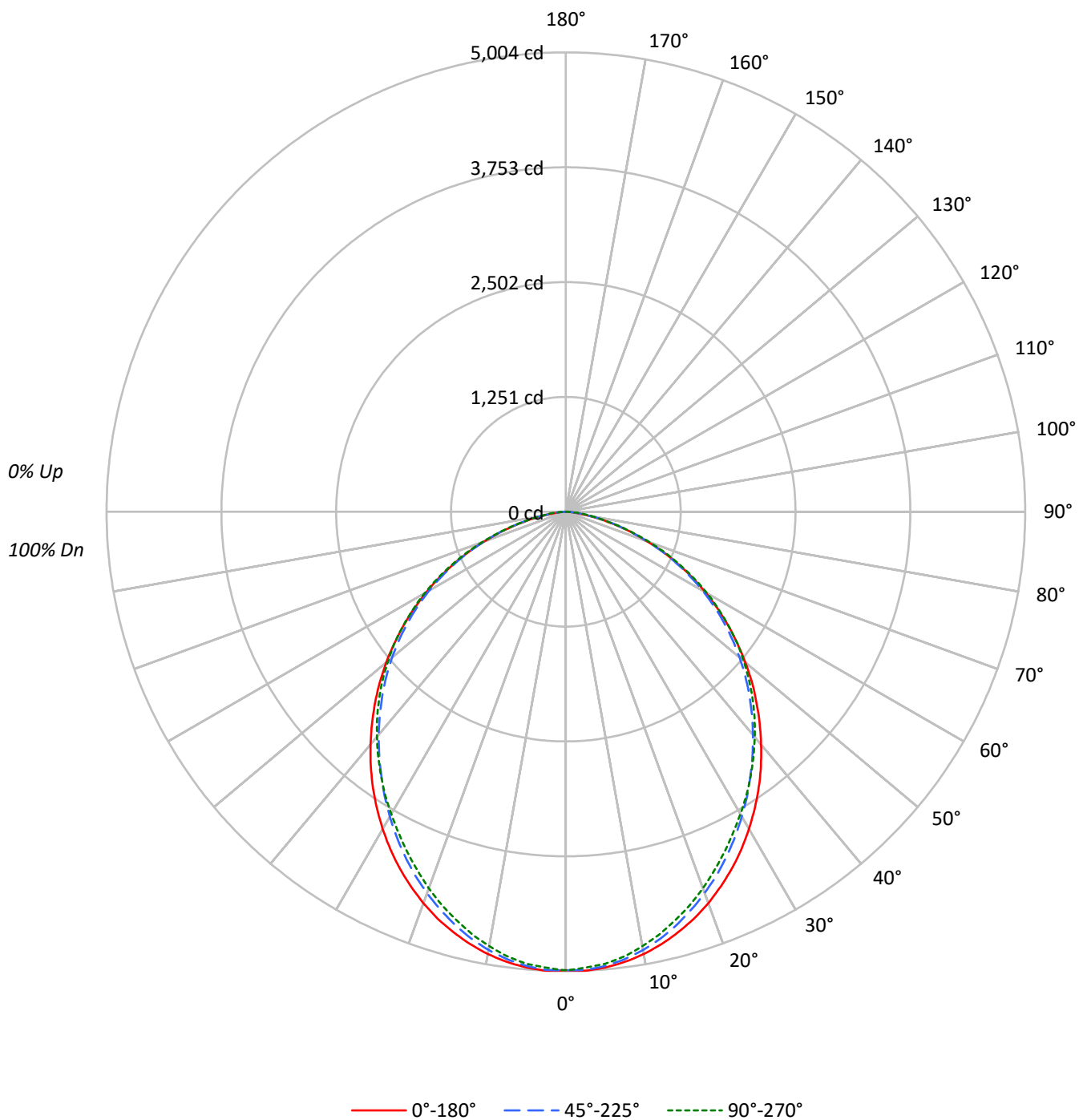
Lumens per Lamp: N/A
Luminaire Lumens: 12102.0 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 157.2
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	87	85
2	100	92	86	80	98	90	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	56		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	43	41
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6721	6721	6721
5°	6730	6707	6674
10°	6684	6623	6565
15°	6602	6491	6415
20°	6496	6329	6249
25°	6360	6150	6069
30°	6200	5957	5907
35°	6019	5758	5765
40°	5812	5570	5623
45°	5589	5378	5474
50°	5345	5172	5290
55°	5064	4929	5069
60°	4727	4631	4789
65°	4302	4241	4375
70°	3720	3727	3818
75°	2969	3061	3089
80°	2020	2190	2268
85°	1050	1514	1965

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5589 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.5	3.9
10°-20°	1312.7	10.8
20°-30°	1915.5	15.8
30°-40°	2217.2	18.3
40°-50°	2209.0	18.3
50°-60°	1900.2	15.7
60°-70°	1330.3	11.0
70°-80°	625.3	5.2
80°-90°	122.3	1.0
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°	3697.7	30.6
0°-40°	5914.9	48.9
0°-60°	10024.1	82.8
0°-90°	12102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12102.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4995	4995	4995	4995	4995	
5°	4983	4966	4966	4934	4942	473
15°	4740	4705	4660	4603	4605	1336
25°	4284	4229	4143	4085	4088	1972
35°	3664	3592	3506	3491	3510	2290
45°	2937	2871	2826	2852	2877	2266
55°	2159	2105	2101	2142	2161	1928
65°	1351	1321	1332	1359	1374	1337
75°	571	560	589	593	594	614
85°	68	78	98	118	127	100
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4994.9	4994.9	4994.9	4994.9	4994.9
2.5°	5004.5	4990.2	4994.9	4970.7	4970.8
5°	4982.9	4966.2	4965.8	4934.4	4941.5
7.5°	4944.7	4924.5	4915.5	4879.3	4885.5
10°	4891.9	4866.3	4847.3	4802.4	4805.3
12.5°	4823.9	4794.1	4762.8	4710.3	4714.8
15°	4739.7	4705.4	4659.7	4603.4	4605.3
17.5°	4646.5	4608.1	4545.8	4485.6	4492.6
20°	4536.7	4493.6	4420.1	4357.6	4364.3
22.5°	4414.7	4365.3	4287.9	4225.1	4227.4
25°	4284.2	4228.9	4142.9	4084.7	4087.8
27.5°	4142.7	4081.0	3991.9	3938.6	3945.4
30°	3990.6	3925.1	3834.3	3791.5	3801.9
32.5°	3830.4	3762.6	3673.5	3644.9	3661.6
35°	3664.4	3592.0	3505.7	3491.3	3509.9
37.5°	3491.3	3419.9	3339.6	3339.1	3358.4
40°	3308.9	3240.4	3171.0	3180.0	3201.3
42.5°	3124.7	3058.3	3000.6	3019.4	3042.4
45°	2937.0	2870.6	2826.3	2852.2	2876.7
47.5°	2749.8	2683.5	2651.6	2683.3	2705.3
50°	2553.6	2492.8	2470.7	2506.6	2527.4
52.5°	2354.4	2298.0	2287.6	2327.2	2354.4
55°	2158.8	2105.2	2101.4	2141.7	2161.0
57.5°	1957.2	1912.7	1914.2	1951.4	1971.2
60°	1756.5	1715.0	1720.8	1758.9	1779.6
62.5°	1553.5	1516.4	1527.7	1562.4	1577.8
65°	1351.3	1320.8	1332.1	1358.7	1374.2
67.5°	1151.3	1123.6	1140.3	1168.6	1175.8
70°	945.6	925.2	947.3	967.7	970.5
72.5°	755.4	737.2	762.2	775.3	774.5
75°	571.2	560.2	588.9	592.8	594.2
77.5°	403.8	403.8	423.8	428.5	430.9
80°	260.7	269.4	282.6	292.3	292.7
82.5°	147.3	156.8	171.1	194.3	203.3
85°	68.0	77.8	98.1	118.5	127.3
87.5°	22.9	30.3	41.4	44.9	42.6
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	17.55	19.13	17.91	19.45	19.76	17.67	19.26	18.04	19.57	19.88
	3H	19.02	20.44	19.40	20.77	21.13	19.18	20.60	19.56	20.93	21.29
	4H	19.45	20.78	19.85	21.13	21.51	19.63	20.96	20.02	21.31	21.69
	6H	19.66	20.90	20.07	21.26	21.65	19.87	21.10	20.28	21.47	21.86
	8H	19.69	20.87	20.11	21.26	21.66	19.92	21.10	20.35	21.49	21.89
	12H	19.69	20.82	20.12	21.20	21.63	19.96	21.09	20.39	21.47	21.90
4H	2H	18.09	19.43	18.49	19.78	20.16	18.20	19.53	18.59	19.88	20.26
	3H	19.74	20.86	20.15	21.25	21.66	19.89	21.00	20.30	21.40	21.80
	4H	20.26	21.26	20.69	21.67	22.11	20.43	21.44	20.87	21.85	22.29
	6H	20.55	21.42	21.01	21.86	22.32	20.76	21.63	21.22	22.07	22.53
	8H	20.60	21.41	21.06	21.85	22.32	20.84	21.66	21.31	22.10	22.57
	12H	20.61	21.34	21.09	21.82	22.29	20.91	21.64	21.39	22.12	22.59
8H	4H	20.45	21.27	20.91	21.71	22.18	20.61	21.43	21.07	21.87	22.34
	6H	20.80	21.48	21.30	21.97	22.44	21.00	21.68	21.50	22.17	22.64
	8H	20.88	21.48	21.39	21.99	22.48	21.13	21.73	21.64	22.24	22.73
	12H	20.92	21.45	21.43	21.94	22.50	21.24	21.77	21.75	22.26	22.83
12H	4H	20.46	21.18	20.94	21.66	22.13	20.61	21.34	21.09	21.82	22.29
	6H	20.81	21.41	21.32	21.92	22.41	21.00	21.61	21.52	22.12	22.60
	8H	20.92	21.45	21.43	21.94	22.50	21.17	21.70	21.68	22.19	22.75