

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: P1499155

Luminaire Tested: MAE-G-4-120-1STD-STD-30-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1STD-STD-30-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

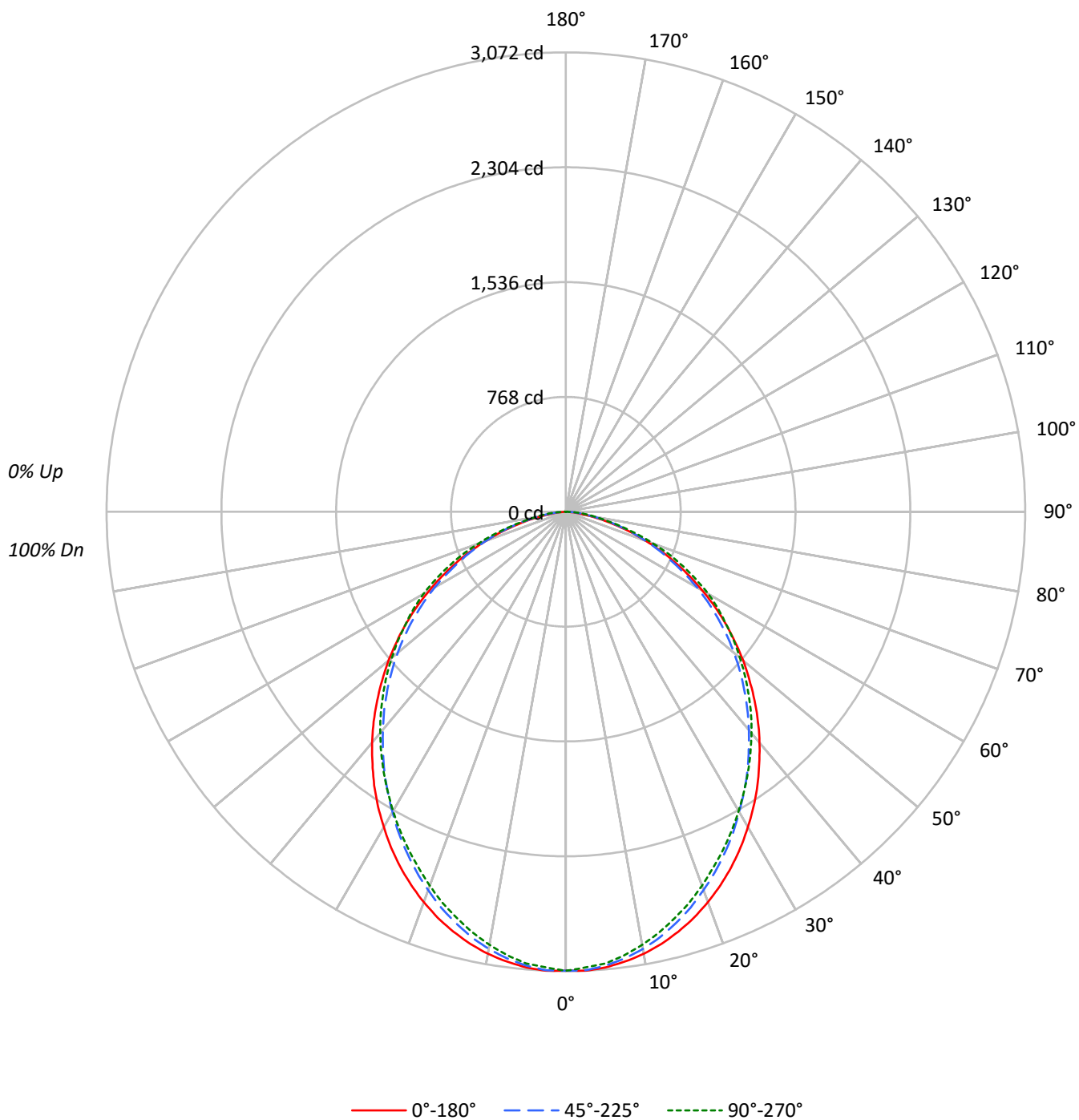
Lumens per Lamp: N/A
Luminaire Lumens: 7344.0 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 102.6
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	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	82	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	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	39	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	32	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	29	39	33	28	38	32	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4129	4129	4129
5°	4131	4115	4095
10°	4101	4056	4018
15°	4049	3966	3919
20°	3978	3855	3810
25°	3890	3736	3698
30°	3784	3602	3589
35°	3670	3477	3488
40°	3540	3345	3393
45°	3395	3214	3289
50°	3240	3074	3180
55°	3061	2912	3065
60°	2841	2725	2963
65°	2585	2483	2755
70°	2243	2232	2455
75°	1790	1900	2017
80°	1238	1467	1599
85°	692	1119	1456

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3395 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.1	3.9
10°-20°	803.1	10.9
20°-30°	1166.6	15.9
30°-40°	1342.5	18.3
40°-50°	1328.8	18.1
50°-60°	1137.8	15.5
60°-70°	802.5	10.9
70°-80°	389.8	5.3
80°-90°	84.9	1.2
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°	2257.7	30.7
0°-40°	3600.2	49.0
0°-60°	6066.8	82.6
0°-90°	7344.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7344.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3069	3069	3069	3069	3069	
5°	3058	3056	3047	3025	3032	290
15°	2907	2891	2847	2809	2813	819
25°	2620	2582	2516	2484	2491	1206
35°	2235	2182	2117	2109	2124	1396
45°	1784	1736	1689	1710	1728	1376
55°	1305	1261	1241	1278	1307	1165
65°	812	777	780	839	865	803
75°	344	330	365	388	388	372
85°	45	55	72	88	94	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3068.9	3068.9	3068.9	3068.9	3068.9
2.5°	3072.5	3075.0	3068.9	3046.0	3049.9
5°	3058.4	3055.8	3046.6	3025.1	3031.9
7.5°	3033.9	3029.7	3013.3	2987.8	2992.2
10°	3001.5	2993.1	2968.7	2936.9	2940.6
12.5°	2959.5	2948.2	2913.9	2877.7	2881.7
15°	2907.0	2890.8	2847.0	2808.9	2813.1
17.5°	2846.6	2828.1	2775.1	2733.9	2742.6
20°	2778.3	2753.2	2692.3	2653.2	2660.8
22.5°	2702.9	2671.5	2607.6	2569.9	2575.8
25°	2620.0	2581.9	2516.3	2484.0	2491.0
27.5°	2530.6	2488.7	2421.3	2391.7	2402.6
30°	2435.3	2390.1	2318.7	2298.4	2310.2
32.5°	2337.4	2289.4	2218.9	2205.9	2217.7
35°	2234.6	2182.2	2116.6	2108.7	2123.5
37.5°	2124.5	2074.1	2009.3	2014.4	2028.3
40°	2015.5	1963.3	1904.2	1915.4	1932.0
42.5°	1902.1	1851.9	1797.8	1813.4	1833.0
45°	1784.2	1736.1	1688.9	1709.7	1728.4
47.5°	1665.6	1618.0	1579.7	1604.1	1626.2
50°	1548.0	1502.3	1468.7	1498.2	1519.2
52.5°	1424.5	1381.0	1356.9	1388.1	1414.9
55°	1304.8	1260.6	1241.2	1278.2	1306.6
57.5°	1181.1	1144.8	1128.1	1171.6	1207.1
60°	1055.6	1019.7	1012.6	1067.6	1101.2
62.5°	932.8	897.6	894.5	958.9	983.1
65°	811.9	777.2	779.9	839.3	865.4
67.5°	692.2	660.4	674.9	732.0	749.4
70°	570.1	541.8	567.4	615.5	624.1
72.5°	455.5	431.7	466.4	500.1	502.2
75°	344.3	329.5	365.4	387.6	387.9
77.5°	246.5	238.6	271.8	286.9	287.8
80°	159.8	163.3	189.3	201.2	206.4
82.5°	93.2	101.4	121.8	141.9	147.2
85°	44.8	54.6	72.5	87.9	94.3
87.5°	15.5	22.0	30.3	33.6	32.7
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	15.72	17.31	16.09	17.62	17.94	15.89	17.48	16.26	17.79	18.11
	3H	17.17	18.60	17.55	18.93	19.29	17.54	18.96	17.92	19.29	19.65
	4H	17.60	18.94	18.00	19.29	19.67	18.04	19.38	18.44	19.73	20.10
	6H	17.82	19.06	18.23	19.43	19.82	18.34	19.57	18.75	19.94	20.33
	8H	17.86	19.04	18.28	19.43	19.83	18.42	19.60	18.85	19.99	20.39
	12H	17.86	18.99	18.29	19.37	19.80	18.49	19.62	18.91	20.00	20.43
4H	2H	16.24	17.58	16.64	17.93	18.30	16.38	17.72	16.78	18.07	18.44
	3H	17.88	18.99	18.29	19.39	19.79	18.23	19.34	18.64	19.74	20.14
	4H	18.39	19.39	18.82	19.81	20.24	18.84	19.85	19.27	20.26	20.70
	6H	18.69	19.56	19.14	20.00	20.46	19.24	20.11	19.70	20.56	21.01
	8H	18.74	19.56	19.21	20.00	20.47	19.36	20.18	19.82	20.62	21.09
	12H	18.77	19.50	19.25	19.97	20.44	19.46	20.19	19.94	20.67	21.14
8H	4H	18.61	19.43	19.07	19.87	20.34	19.02	19.84	19.49	20.28	20.75
	6H	18.98	19.65	19.47	20.14	20.62	19.50	20.18	20.00	20.67	21.14
	8H	19.07	19.67	19.58	20.18	20.67	19.68	20.28	20.19	20.79	21.28
	12H	19.12	19.65	19.63	20.15	20.71	19.84	20.37	20.34	20.86	21.42
12H	4H	18.62	19.36	19.11	19.83	20.30	19.02	19.75	19.50	20.23	20.70
	6H	19.00	19.61	19.51	20.11	20.60	19.51	20.11	20.02	20.62	21.11
	8H	19.13	19.66	19.64	20.15	20.72	19.73	20.26	20.24	20.75	21.32