

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: P1498831

Luminaire Tested: MAE-G-2-120-3STD-HI-40-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498831
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-2-120-3STD-HI-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

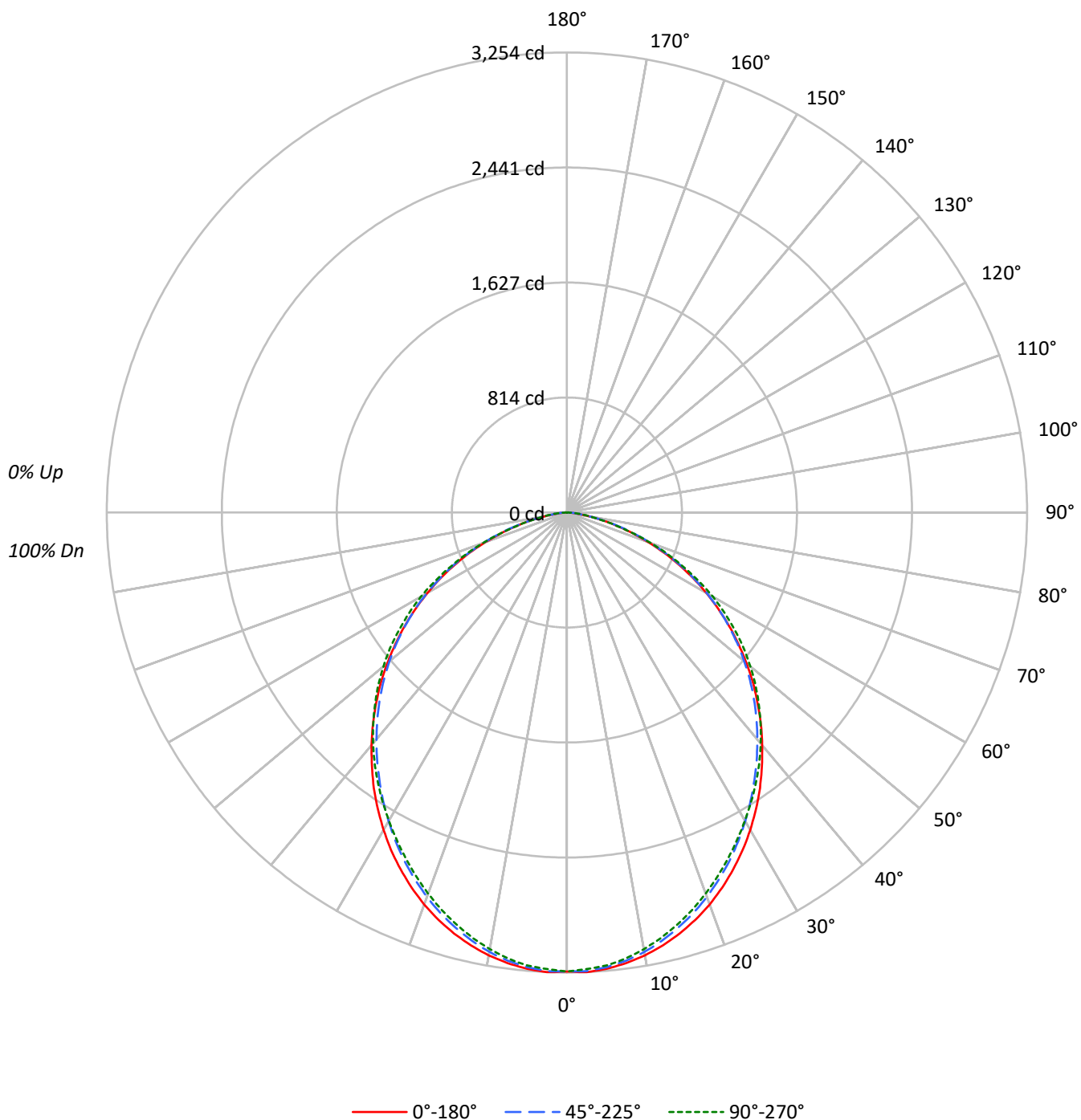
Lumens per Lamp: N/A
Luminaire Lumens: 7944.0 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 94.8
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	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85		
2	100	92	86	81	98	91	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	42	40		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8737	8737	8737
5°	8752	8722	8689
10°	8692	8624	8569
15°	8588	8471	8405
20°	8448	8286	8215
25°	8266	8073	8011
30°	8056	7835	7821
35°	7818	7593	7658
40°	7549	7359	7489
45°	7257	7120	7303
50°	6936	6854	7089
55°	6575	6548	6794
60°	6128	6160	6420
65°	5573	5648	5794
70°	4807	4940	4963
75°	3828	3984	3828
80°	2590	2712	2641
85°	1346	1785	2229

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7303 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.5	3.8
10°-20°	856.7	10.8
20°-30°	1255.0	15.8
30°-40°	1457.7	18.3
40°-50°	1457.5	18.3
50°-60°	1257.5	15.8
60°-70°	878.0	11.1
70°-80°	402.4	5.1
80°-90°	73.7	0.9
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°	2417.2	30.4
0°-40°	3874.9	48.8
0°-60°	6589.9	83.0
0°-90°	7944.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7944.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3247	3247	3247	3247	3247	
5°	3240	3227	3229	3212	3216	307
15°	3083	3062	3041	3013	3017	869
25°	2784	2754	2719	2690	2698	1282
35°	2380	2342	2312	2312	2331	1487
45°	1907	1876	1871	1899	1919	1471
55°	1402	1377	1396	1434	1448	1251
65°	875	865	887	905	910	865
75°	368	367	383	376	368	395
85°	44	48	58	68	72	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3246.7	3246.7	3246.7	3246.7	3246.7
2.5°	3254.3	3242.5	3246.7	3233.2	3232.2
5°	3240.0	3227.2	3228.9	3211.7	3216.5
7.5°	3214.9	3200.8	3197.9	3178.5	3182.6
10°	3180.9	3163.8	3156.0	3133.2	3136.0
12.5°	3135.8	3117.3	3103.6	3077.2	3081.6
15°	3082.6	3061.7	3040.7	3013.4	3017.1
17.5°	3020.9	2997.2	2971.6	2940.3	2946.9
20°	2950.2	2924.0	2893.4	2860.5	2868.8
22.5°	2871.0	2842.6	2808.4	2777.4	2785.2
25°	2783.8	2754.1	2719.0	2690.0	2698.1
27.5°	2692.1	2658.8	2622.4	2598.9	2608.1
30°	2592.7	2557.8	2521.4	2503.5	2517.0
32.5°	2487.9	2452.4	2418.2	2409.5	2425.4
35°	2380.0	2342.4	2311.5	2312.4	2331.2
37.5°	2264.0	2230.9	2204.4	2214.7	2233.7
40°	2149.0	2114.5	2094.9	2111.5	2131.8
42.5°	2029.9	1998.3	1984.1	2008.2	2026.8
45°	1906.8	1876.5	1870.9	1898.7	1919.1
47.5°	1785.3	1754.9	1756.1	1787.4	1809.8
50°	1656.9	1630.3	1637.2	1673.6	1693.4
52.5°	1528.4	1503.0	1517.1	1556.1	1575.8
55°	1401.5	1377.4	1395.6	1433.9	1448.2
57.5°	1269.7	1252.4	1272.7	1307.1	1322.5
60°	1138.6	1122.8	1144.6	1178.0	1192.8
62.5°	1007.2	994.7	1016.9	1045.7	1052.0
65°	875.2	864.9	887.0	905.4	909.9
67.5°	741.5	735.7	757.9	770.6	771.8
70°	611.0	604.3	627.9	635.2	630.8
72.5°	484.3	482.3	500.4	502.6	494.0
75°	368.2	367.4	383.2	375.9	368.2
77.5°	260.3	260.9	271.7	262.8	258.9
80°	167.1	172.0	175.0	173.2	170.4
82.5°	93.9	100.1	102.3	112.8	117.2
85°	43.6	48.0	57.8	67.9	72.2
87.5°	14.8	18.5	23.9	25.8	24.2
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	18.46	20.05	18.83	20.36	20.68	18.76	20.34	19.13	20.66	20.97
	3H	19.92	21.34	20.29	21.67	22.03	20.21	21.64	20.59	21.97	22.33
	4H	20.34	21.68	20.74	22.03	22.40	20.61	21.95	21.01	22.30	22.68
	6H	20.55	21.78	20.96	22.15	22.54	20.80	22.04	21.21	22.40	22.79
	8H	20.57	21.75	21.00	22.14	22.54	20.84	22.02	21.26	22.41	22.81
	12H	20.57	21.70	21.00	22.08	22.51	20.86	21.99	21.29	22.37	22.80
4H	2H	19.04	20.37	19.43	20.72	21.10	19.28	20.61	19.67	20.96	21.34
	3H	20.67	21.78	21.08	22.18	22.58	20.92	22.03	21.33	22.43	22.83
	4H	21.17	22.18	21.61	22.59	23.03	21.41	22.41	21.84	22.82	23.26
	6H	21.46	22.33	21.91	22.77	23.23	21.67	22.54	22.13	22.98	23.44
	8H	21.50	22.31	21.96	22.76	23.22	21.73	22.54	22.19	22.99	23.45
	12H	21.51	22.24	21.99	22.72	23.19	21.77	22.50	22.25	22.98	23.45
8H	4H	21.36	22.18	21.83	22.62	23.09	21.58	22.39	22.04	22.83	23.30
	6H	21.70	22.37	22.20	22.86	23.34	21.89	22.56	22.39	23.05	23.53
	8H	21.77	22.37	22.28	22.88	23.37	21.98	22.59	22.50	23.09	23.58
	12H	21.81	22.34	22.31	22.83	23.39	22.07	22.60	22.57	23.09	23.65
12H	4H	21.36	22.09	21.84	22.57	23.04	21.57	22.30	22.05	22.78	23.25
	6H	21.70	22.30	22.21	22.81	23.30	21.89	22.49	22.40	23.00	23.49
	8H	21.80	22.33	22.31	22.82	23.39	22.02	22.55	22.52	23.04	23.60