

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: P1498942

Luminaire Tested: MAE-G-4-120-1HI-LO-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498942
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-4-120-1HI-LO-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

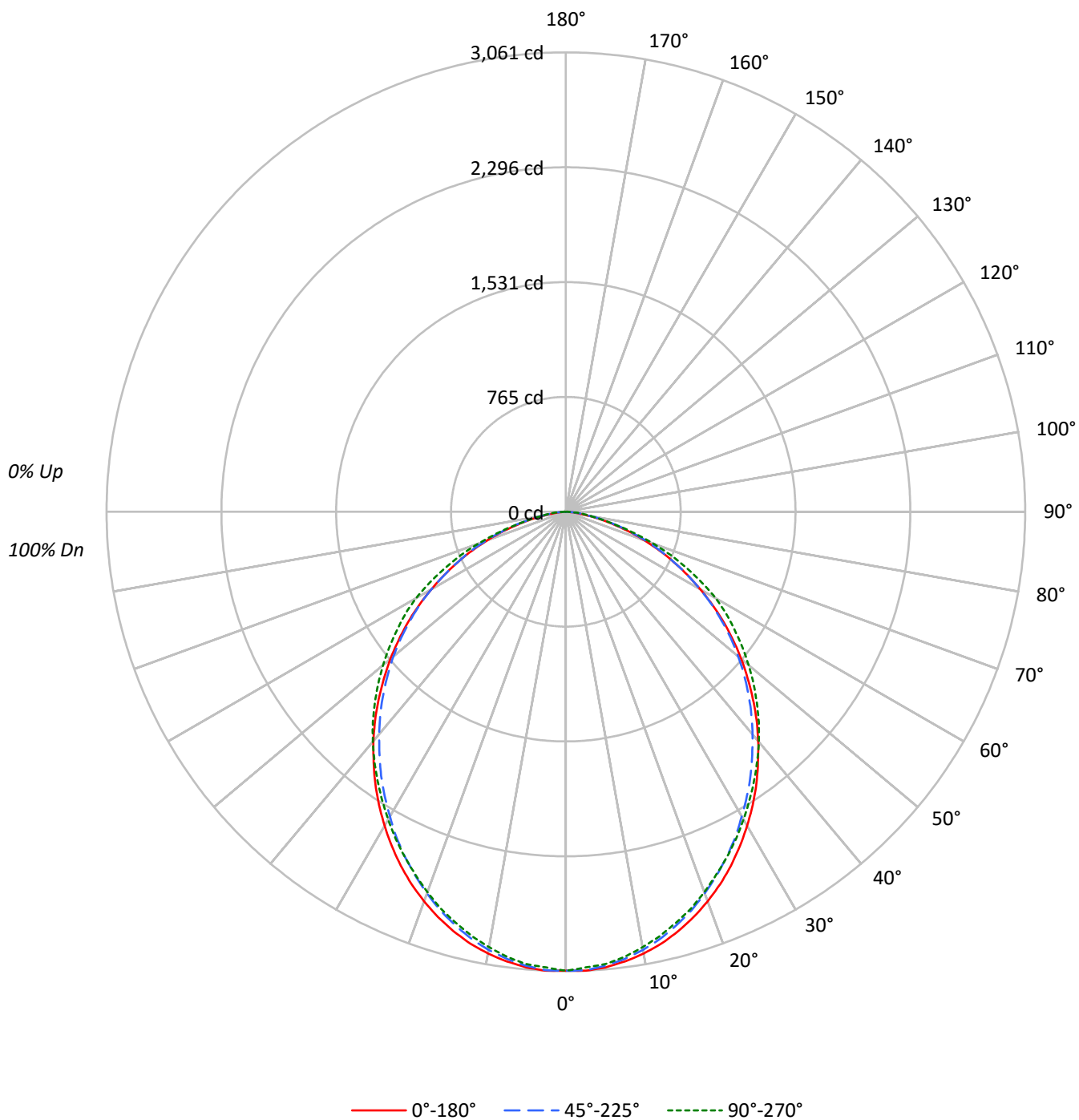
Lumens per Lamp: N/A
Luminaire Lumens: 7399.0 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 92.5
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	92	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	76	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	45	39	51	44	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4114	4114	4114
5°	4115	4101	4087
10°	4084	4050	4025
15°	4030	3971	3949
20°	3955	3874	3861
25°	3864	3766	3770
30°	3753	3642	3679
35°	3637	3525	3593
40°	3503	3400	3515
45°	3354	3275	3424
50°	3196	3139	3328
55°	3013	2976	3218
60°	2787	2788	3107
65°	2528	2529	2832
70°	2186	2241	2438
75°	1734	1845	1867
80°	1189	1338	1354
85°	658	963	1198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3424 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.4	3.9
10°-20°	804.5	10.9
20°-30°	1174.7	15.9
30°-40°	1358.5	18.4
40°-50°	1350.6	18.3
50°-60°	1160.1	15.7
60°-70°	811.6	11.0
70°-80°	376.6	5.1
80°-90°	75.0	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°	2266.6	30.6
0°-40°	3625.1	49.0
0°-60°	6135.8	82.9
0°-90°	7399.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7399.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3058	3058	3058	3058	3058	
5°	3047	3044	3036	3020	3026	289
15°	2893	2882	2851	2828	2835	815
25°	2603	2576	2537	2526	2540	1198
35°	2214	2179	2146	2163	2188	1383
45°	1762	1734	1721	1768	1799	1360
55°	1284	1258	1269	1332	1372	1147
65°	794	774	794	861	890	786
75°	334	326	355	366	359	361
85°	43	50	62	74	78	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3057.7	3057.7	3057.7	3057.7	3057.7
2.5°	3061.4	3063.4	3057.7	3036.9	3039.0
5°	3046.6	3043.6	3036.5	3019.6	3025.9
7.5°	3021.8	3018.5	3005.6	2986.7	2991.1
10°	2988.9	2982.3	2964.2	2941.2	2946.0
12.5°	2946.7	2938.8	2913.7	2889.3	2895.2
15°	2893.2	2881.5	2851.0	2827.9	2834.8
17.5°	2831.8	2820.2	2784.4	2759.7	2772.2
20°	2762.3	2745.6	2705.4	2684.3	2696.8
22.5°	2686.3	2664.6	2624.0	2605.9	2618.1
25°	2602.6	2575.5	2536.6	2525.5	2539.5
27.5°	2511.8	2482.8	2445.2	2437.2	2456.1
30°	2415.6	2384.9	2344.1	2347.1	2367.7
32.5°	2317.3	2285.3	2246.3	2257.8	2278.3
35°	2214.1	2178.8	2146.3	2162.9	2187.7
37.5°	2103.5	2070.6	2039.7	2071.1	2095.2
40°	1994.5	1960.4	1935.7	1973.7	2001.0
42.5°	1881.3	1849.5	1829.8	1872.4	1903.6
45°	1762.5	1734.3	1721.0	1768.5	1799.2
47.5°	1644.2	1615.6	1611.0	1662.2	1696.6
50°	1526.7	1500.4	1499.6	1555.8	1590.1
52.5°	1404.5	1379.0	1386.6	1444.1	1483.9
55°	1284.5	1258.3	1268.8	1331.7	1371.9
57.5°	1161.2	1143.2	1153.8	1220.9	1268.5
60°	1035.5	1017.0	1035.9	1112.1	1154.5
62.5°	914.0	895.0	913.3	994.9	1021.4
65°	794.0	774.4	794.4	860.7	889.6
67.5°	676.6	657.4	684.9	742.8	760.1
70°	555.7	539.1	569.6	614.8	619.7
72.5°	443.4	428.5	462.2	487.7	484.6
75°	333.6	325.9	354.9	365.7	359.2
77.5°	238.2	234.0	257.1	259.4	253.5
80°	153.4	157.1	172.7	172.6	174.7
82.5°	89.0	95.4	106.6	120.5	122.8
85°	42.6	50.3	62.4	73.5	77.6
87.5°	14.9	20.1	25.5	28.1	27.4
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	15.67	17.25	16.03	17.57	17.88	16.17	17.75	16.53	18.06	18.38
	3H	17.09	18.52	17.47	18.84	19.21	17.72	19.14	18.09	19.47	19.83
	4H	17.51	18.85	17.91	19.19	19.57	18.14	19.47	18.53	19.82	20.20
	6H	17.72	18.95	18.13	19.32	19.71	18.34	19.58	18.75	19.94	20.33
	8H	17.75	18.93	18.17	19.31	19.71	18.39	19.57	18.82	19.96	20.36
	12H	17.75	18.88	18.18	19.26	19.69	18.43	19.55	18.86	19.94	20.36
4H	2H	16.22	17.55	16.61	17.90	18.28	16.62	17.96	17.02	18.31	18.68
	3H	17.82	18.93	18.23	19.33	19.73	18.37	19.48	18.78	19.88	20.28
	4H	18.32	19.32	18.75	19.73	20.17	18.89	19.89	19.32	20.31	20.74
	6H	18.60	19.47	19.06	19.92	20.37	19.18	20.05	19.64	20.49	20.95
	8H	18.65	19.46	19.11	19.91	20.37	19.26	20.07	19.72	20.52	20.98
	12H	18.67	19.40	19.15	19.87	20.35	19.32	20.05	19.80	20.52	20.99
8H	4H	18.53	19.34	18.99	19.79	20.25	19.05	19.86	19.51	20.30	20.77
	6H	18.87	19.54	19.37	20.03	20.51	19.40	20.07	19.90	20.56	21.04
	8H	18.95	19.55	19.46	20.06	20.55	19.52	20.12	20.03	20.63	21.12
	12H	19.00	19.53	19.50	20.02	20.58	19.63	20.16	20.13	20.65	21.21
12H	4H	18.53	19.26	19.01	19.74	20.21	19.04	19.77	19.52	20.25	20.72
	6H	18.88	19.48	19.39	19.99	20.48	19.40	20.00	19.91	20.51	21.00
	8H	19.00	19.53	19.50	20.02	20.58	19.56	20.09	20.06	20.58	21.14