

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: P1499137

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499137
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-LO-35-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

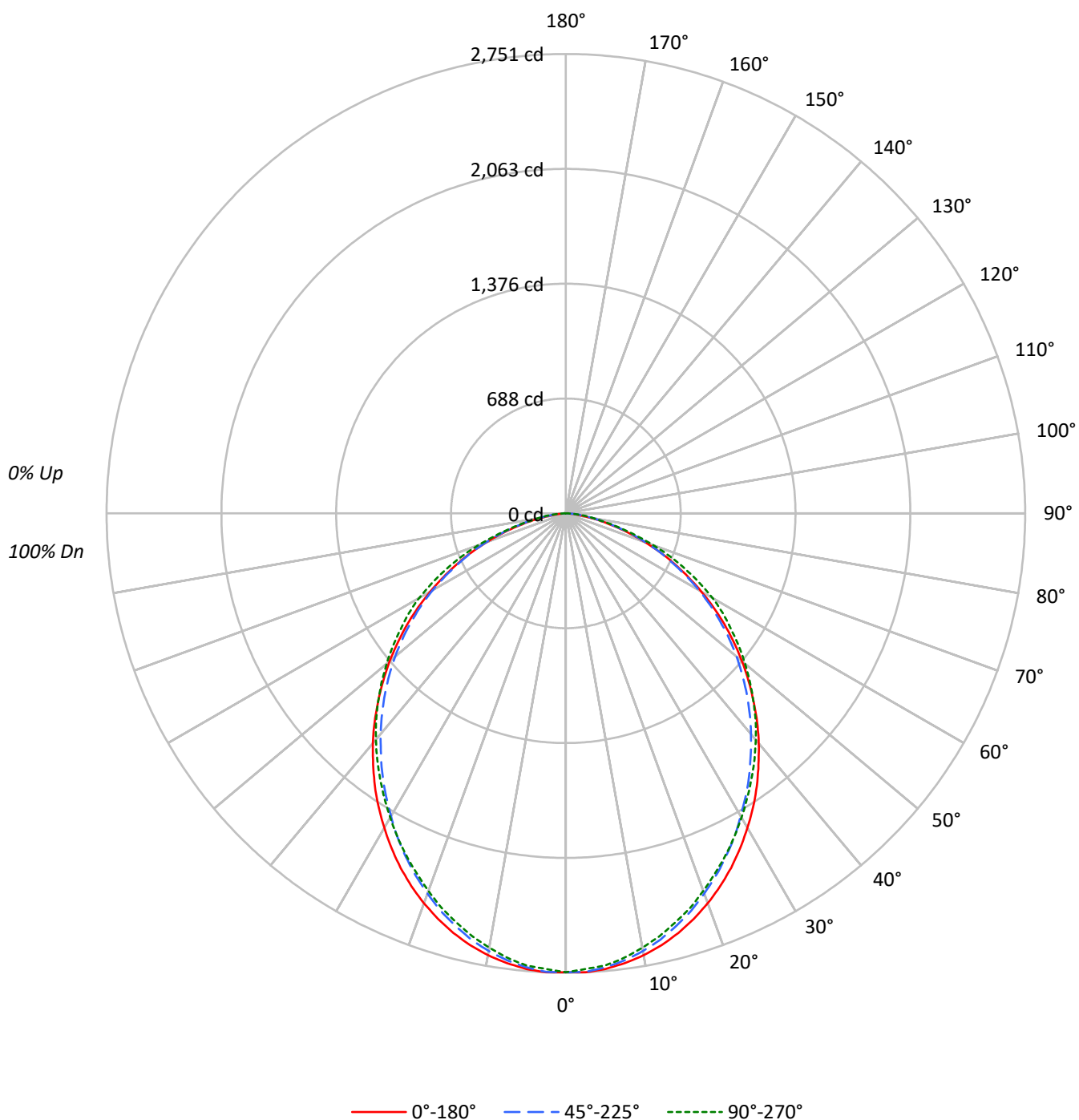
Lumens per Lamp: N/A
Luminaire Lumens: 6619.0 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 82.3
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	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	61
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	53
5	78	65	56	50	75	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	45	39	51	44	39	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	34	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3697	3697	3697
5°	3698	3685	3670
10°	3671	3636	3609
15°	3623	3562	3532
20°	3558	3469	3446
25°	3477	3368	3356
30°	3379	3253	3268
35°	3276	3145	3186
40°	3157	3030	3109
45°	3025	2916	3022
50°	2884	2793	2932
55°	2721	2647	2831
60°	2520	2478	2735
65°	2289	2252	2513
70°	1983	2007	2194
75°	1577	1676	1731
80°	1085	1248	1306
85°	604	922	1170

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3025 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.1	3.9
10°-20°	721.4	10.9
20°-30°	1051.1	15.9
30°-40°	1213.1	18.3
40°-50°	1203.9	18.2
50°-60°	1032.8	15.6
60°-70°	724.9	11.0
70°-80°	342.8	5.2
80°-90°	70.9	1.1
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°	2030.6	30.7
0°-40°	3243.7	49.0
0°-60°	5480.3	82.8
0°-90°	6619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6619.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2748	2748	2748	2748	2748	
5°	2738	2736	2728	2712	2718	260
15°	2601	2589	2557	2531	2536	733
25°	2342	2313	2269	2251	2261	1078
35°	1994	1956	1915	1921	1939	1246
45°	1590	1557	1532	1565	1588	1226
55°	1160	1130	1128	1175	1207	1036
65°	719	696	708	764	789	712
75°	303	294	322	336	333	328
85°	39	47	60	71	76	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2747.9	2747.9	2747.9	2747.9	2747.9
2.5°	2751.1	2753.1	2747.9	2728.5	2731.0
5°	2738.2	2735.6	2728.5	2711.6	2717.5
7.5°	2716.0	2712.7	2699.8	2680.4	2684.4
10°	2686.7	2680.1	2661.5	2637.6	2641.5
12.5°	2648.9	2640.5	2614.6	2588.4	2593.0
15°	2601.2	2589.0	2556.8	2530.6	2535.7
17.5°	2546.5	2533.6	2495.1	2466.8	2476.6
20°	2484.6	2466.5	2422.8	2397.2	2406.6
22.5°	2416.6	2393.5	2348.5	2325.1	2333.6
25°	2341.8	2313.4	2268.6	2250.9	2260.9
27.5°	2260.9	2230.0	2185.3	2170.2	2184.2
30°	2174.8	2142.0	2094.0	2088.1	2103.4
32.5°	2086.8	2052.1	2005.5	2006.9	2022.0
35°	1994.3	1956.3	1914.9	1920.8	1939.4
37.5°	1895.3	1859.3	1819.1	1837.5	1855.4
40°	1797.5	1760.2	1725.3	1749.5	1770.1
42.5°	1695.9	1660.4	1630.1	1658.4	1682.1
45°	1589.5	1556.9	1532.5	1565.2	1588.3
47.5°	1483.3	1450.6	1434.0	1470.0	1496.4
50°	1377.8	1347.1	1334.2	1374.8	1400.6
52.5°	1267.7	1238.1	1233.3	1275.2	1306.1
55°	1160.1	1129.9	1128.3	1175.2	1206.9
57.5°	1049.3	1026.4	1025.9	1077.3	1115.6
60°	936.6	913.6	920.9	981.5	1016.3
62.5°	827.1	804.1	812.6	879.5	902.4
65°	719.1	695.9	707.5	764.5	789.3
67.5°	612.9	591.0	610.9	662.5	678.1
70°	504.0	484.7	510.3	552.0	557.7
72.5°	402.4	385.7	416.3	442.2	441.3
75°	303.3	293.8	322.4	336.3	332.9
77.5°	216.8	211.7	236.1	242.9	240.1
80°	140.0	143.3	161.1	165.4	168.5
82.5°	81.4	87.8	101.2	116.0	119.3
85°	39.1	46.8	59.7	71.3	75.8
87.5°	13.6	18.8	24.6	27.2	26.5
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	15.32	16.90	15.68	17.21	17.53	15.68	17.26	16.04	17.58	17.89
	3H	16.75	18.17	17.13	18.50	18.86	17.27	18.69	17.64	19.02	19.38
	4H	17.17	18.51	17.57	18.86	19.23	17.72	19.06	18.12	19.40	19.78
	6H	17.38	18.62	17.80	18.99	19.38	17.96	19.20	18.37	19.56	19.95
	8H	17.42	18.59	17.84	18.98	19.38	18.03	19.20	18.45	19.59	19.99
	12H	17.42	18.55	17.85	18.93	19.36	18.07	19.20	18.50	19.58	20.01
4H	2H	15.85	17.19	16.25	17.53	17.91	16.15	17.48	16.55	17.83	18.21
	3H	17.47	18.58	17.88	18.98	19.38	17.93	19.05	18.34	19.45	19.85
	4H	17.97	18.97	18.40	19.39	19.82	18.49	19.50	18.92	19.91	20.35
	6H	18.26	19.13	18.72	19.58	20.03	18.83	19.70	19.28	20.14	20.60
	8H	18.31	19.13	18.78	19.57	20.04	18.92	19.74	19.38	20.18	20.65
	12H	18.33	19.06	18.81	19.54	20.01	19.00	19.73	19.48	20.20	20.67
8H	4H	18.19	19.00	18.65	19.44	19.91	18.66	19.47	19.12	19.92	20.38
	6H	18.54	19.21	19.04	19.70	20.18	19.06	19.74	19.56	20.23	20.70
	8H	18.62	19.22	19.13	19.73	20.22	19.20	19.81	19.72	20.32	20.80
	12H	18.67	19.20	19.18	19.69	20.26	19.33	19.86	19.84	20.36	20.92
12H	4H	18.19	18.92	18.67	19.40	19.87	18.66	19.39	19.14	19.86	20.33
	6H	18.55	19.16	19.06	19.67	20.15	19.06	19.67	19.58	20.18	20.66
	8H	18.67	19.21	19.18	19.70	20.26	19.25	19.78	19.75	20.27	20.83