

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: P1499068

Luminaire Tested: MAE-G-4-120-1LO-STD-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499068
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-4-120-1LO-STD-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

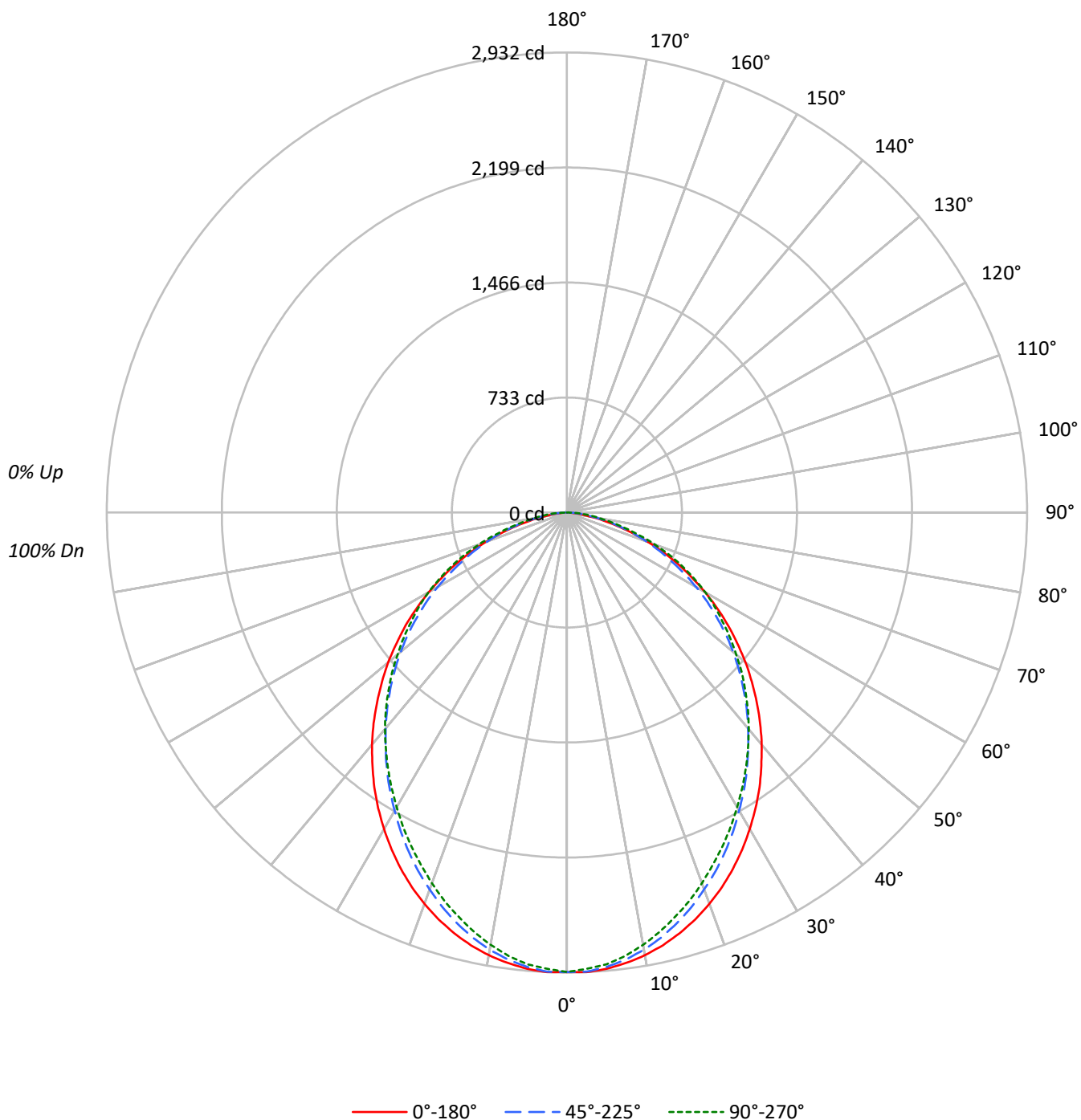
Lumens per Lamp: N/A
Luminaire Lumens: 6964.0 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	60	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°	3940	3940	3940
5°	3942	3926	3904
10°	3914	3866	3822
15°	3866	3774	3715
20°	3801	3661	3600
25°	3718	3541	3483
30°	3620	3409	3370
35°	3514	3284	3265
40°	3391	3155	3166
45°	3255	3027	3059
50°	3110	2893	2948
55°	2940	2738	2836
60°	2734	2561	2745
65°	2492	2340	2582
70°	2166	2121	2348
75°	1734	1838	2000
80°	1206	1468	1656
85°	676	1150	1525

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3255 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.7	3.9
10°-20°	764.0	11.0
20°-30°	1106.5	15.9
30°-40°	1269.9	18.2
40°-50°	1253.7	18.0
50°-60°	1071.4	15.4
60°-70°	759.3	10.9
70°-80°	378.4	5.4
80°-90°	86.2	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°	2145.2	30.8
0°-40°	3415.1	49.0
0°-60°	5740.1	82.4
0°-90°	6964.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6964.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2929	2929	2929	2929	2929	
5°	2919	2917	2907	2884	2890	277
15°	2776	2758	2709	2665	2667	782
25°	2504	2462	2385	2343	2346	1153
35°	2139	2080	2000	1979	1988	1336
45°	1711	1654	1591	1596	1608	1319
55°	1254	1202	1167	1188	1209	1119
65°	783	742	735	788	811	774
75°	334	316	354	381	385	360
85°	44	54	74	92	99	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2928.6	2928.6	2928.6	2928.6	2928.6
2.5°	2931.9	2934.6	2928.6	2905.6	2910.3
5°	2918.9	2916.6	2906.8	2883.7	2890.5
7.5°	2895.7	2891.2	2873.6	2845.8	2850.0
10°	2865.1	2856.1	2829.5	2794.4	2797.4
12.5°	2825.3	2812.7	2774.9	2734.2	2736.9
15°	2775.7	2757.9	2709.0	2664.8	2667.0
17.5°	2718.8	2697.5	2637.8	2589.6	2595.8
20°	2654.3	2626.0	2556.7	2509.9	2514.3
22.5°	2583.0	2547.8	2474.3	2427.8	2430.1
25°	2504.4	2462.1	2385.3	2343.1	2346.1
27.5°	2420.1	2373.1	2292.8	2253.2	2259.1
30°	2329.9	2278.9	2194.3	2162.4	2168.9
32.5°	2236.8	2182.3	2098.3	2072.6	2079.1
35°	2139.1	2079.9	1999.5	1979.0	1987.6
37.5°	2034.5	1977.0	1897.1	1887.6	1895.4
40°	1930.8	1871.4	1796.2	1792.4	1802.6
42.5°	1822.7	1764.8	1694.8	1695.1	1707.4
45°	1710.8	1654.3	1591.0	1596.4	1607.6
47.5°	1597.7	1542.2	1487.5	1496.1	1510.7
50°	1485.7	1431.7	1381.9	1395.7	1408.3
52.5°	1367.3	1316.1	1276.2	1291.6	1310.1
55°	1253.5	1201.7	1167.1	1188.4	1209.1
57.5°	1135.5	1091.0	1060.5	1089.1	1116.4
60°	1015.9	972.6	951.6	992.7	1019.9
62.5°	898.4	856.2	841.6	893.7	915.5
65°	782.8	741.6	734.9	787.7	810.9
67.5°	667.5	630.4	637.3	691.3	707.8
70°	550.7	517.3	539.2	586.6	596.8
72.5°	440.5	412.9	446.4	483.0	487.8
75°	333.6	315.8	353.6	381.0	384.8
77.5°	239.2	229.8	266.8	288.1	292.7
80°	155.7	158.9	189.4	207.1	213.7
82.5°	91.0	99.7	124.1	146.7	153.5
85°	43.8	54.4	74.5	91.5	98.8
87.5°	15.1	22.1	31.3	34.8	33.9
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	15.59	17.17	15.95	17.48	17.80	15.56	17.15	15.93	17.46	17.78
	3H	17.05	18.47	17.43	18.80	19.16	17.27	18.69	17.64	19.02	19.38
	4H	17.48	18.82	17.88	19.17	19.55	17.82	19.16	18.22	19.51	19.88
	6H	17.71	18.95	18.12	19.32	19.71	18.17	19.41	18.58	19.78	20.17
	8H	17.75	18.93	18.17	19.32	19.72	18.28	19.46	18.71	19.85	20.25
	12H	17.75	18.89	18.18	19.27	19.70	18.36	19.49	18.79	19.88	20.30
4H	2H	16.08	17.42	16.48	17.77	18.15	16.07	17.41	16.46	17.75	18.13
	3H	17.74	18.85	18.15	19.25	19.65	17.98	19.09	18.39	19.49	19.89
	4H	18.26	19.26	18.69	19.68	20.11	18.65	19.66	19.08	20.07	20.51
	6H	18.57	19.44	19.02	19.89	20.34	19.11	19.99	19.57	20.43	20.89
	8H	18.63	19.45	19.09	19.89	20.35	19.26	20.08	19.73	20.53	20.99
	12H	18.65	19.39	19.13	19.86	20.33	19.38	20.12	19.86	20.59	21.06
8H	4H	18.49	19.31	18.95	19.75	20.22	18.84	19.66	19.31	20.11	20.57
	6H	18.87	19.55	19.37	20.04	20.51	19.40	20.08	19.89	20.57	21.04
	8H	18.97	19.57	19.48	20.08	20.57	19.61	20.22	20.12	20.73	21.21
	12H	19.02	19.56	19.53	20.05	20.61	19.80	20.33	20.31	20.83	21.39
12H	4H	18.51	19.24	18.99	19.72	20.19	18.85	19.58	19.33	20.06	20.53
	6H	18.90	19.51	19.41	20.02	20.50	19.41	20.02	19.92	20.53	21.01
	8H	19.04	19.57	19.54	20.06	20.63	19.67	20.20	20.18	20.69	21.26