

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: P1498777

Luminaire Tested: MAE-G-2-120-3LO-STD-35-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498777
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-2-120-3LO-STD-35-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

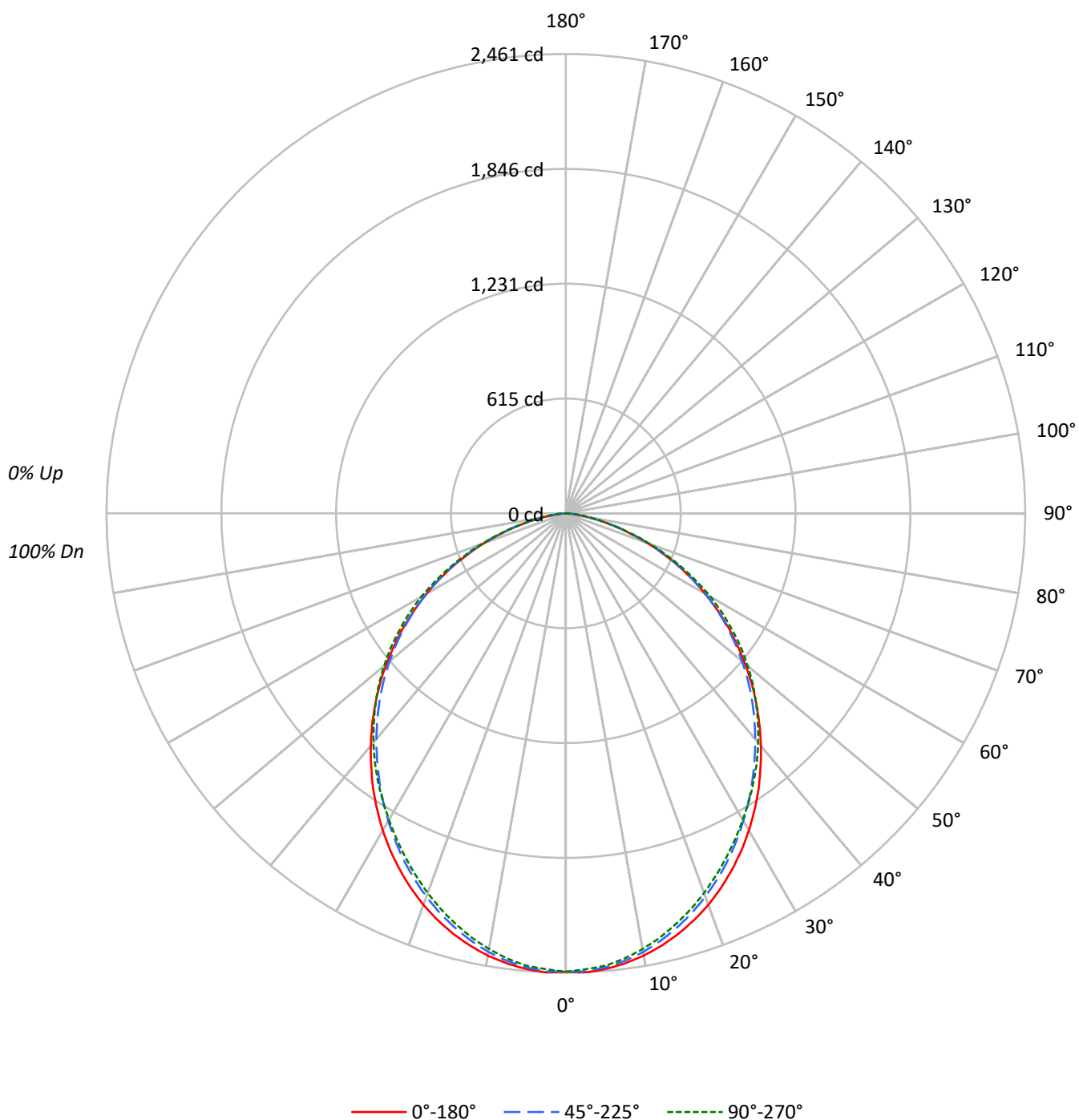
Lumens per Lamp: N/A
Luminaire Lumens: 5996.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 71.5
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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85		
2	100	92	86	80	98	90	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	39	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	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6607	6607	6607
5°	6619	6596	6569
10°	6574	6519	6475
15°	6495	6401	6345
20°	6390	6257	6197
25°	6252	6093	6038
30°	6095	5910	5890
35°	5915	5726	5763
40°	5712	5546	5631
45°	5492	5363	5488
50°	5250	5161	5323
55°	4977	4929	5100
60°	4640	4635	4823
65°	4221	4251	4366
70°	3644	3728	3761
75°	2903	3023	2933
80°	1968	2083	2060
85°	1025	1392	1754

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5492 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.0	3.9
10°-20°	647.3	10.8
20°-30°	947.5	15.8
30°-40°	1099.6	18.3
40°-50°	1098.5	18.3
50°-60°	947.2	15.8
60°-70°	662.2	11.0
70°-80°	305.7	5.1
80°-90°	57.0	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°	1825.8	30.5
0°-40°	2925.4	48.8
0°-60°	4971.1	82.9
0°-90°	5996.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5996.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2455	2455	2455	2455	2455	
5°	2450	2441	2442	2428	2432	232
15°	2331	2315	2298	2275	2278	657
25°	2106	2082	2052	2028	2034	970
35°	1801	1770	1743	1741	1754	1125
45°	1443	1418	1409	1428	1442	1113
55°	1061	1040	1050	1077	1087	947
65°	663	653	668	682	686	655
75°	279	278	291	287	282	300
85°	33	37	45	53	57	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2455.4	2455.4	2455.4	2455.4	2455.4
2.5°	2461.1	2452.6	2455.4	2444.9	2444.3
5°	2450.3	2440.9	2441.8	2428.2	2431.9
7.5°	2431.3	2420.8	2418.0	2402.5	2405.6
10°	2405.7	2392.8	2385.9	2367.6	2369.7
12.5°	2371.6	2357.5	2345.8	2324.4	2327.6
15°	2331.4	2315.3	2297.6	2275.2	2277.7
17.5°	2284.8	2266.4	2244.7	2219.1	2223.9
20°	2231.5	2210.8	2185.0	2158.2	2164.1
22.5°	2171.6	2149.2	2120.2	2094.9	2100.1
25°	2105.8	2082.0	2052.2	2028.1	2033.7
27.5°	2036.4	2009.8	1978.7	1958.9	1965.0
30°	1961.4	1933.4	1902.1	1886.2	1895.7
32.5°	1882.3	1853.6	1823.8	1814.8	1825.9
35°	1800.6	1770.3	1742.9	1741.0	1754.3
37.5°	1713.1	1685.9	1661.7	1667.0	1680.2
40°	1626.1	1597.9	1578.7	1588.7	1603.1
42.5°	1536.1	1509.9	1495.0	1510.5	1523.5
45°	1443.0	1417.7	1409.3	1427.7	1442.0
47.5°	1351.0	1325.7	1322.6	1343.6	1359.4
50°	1254.1	1231.6	1232.7	1257.7	1271.5
52.5°	1156.7	1135.4	1142.2	1169.0	1183.0
55°	1060.8	1040.4	1050.5	1077.1	1087.1
57.5°	961.1	945.9	957.7	981.9	992.9
60°	862.1	847.9	861.3	885.2	896.1
62.5°	762.6	751.0	765.3	786.4	791.4
65°	662.9	653.0	667.6	682.0	685.7
67.5°	561.8	555.5	570.9	581.6	583.0
70°	463.1	456.3	473.8	480.7	478.0
72.5°	367.2	364.2	378.5	381.8	376.0
75°	279.2	277.6	290.8	287.1	282.1
77.5°	197.5	197.5	207.2	202.2	200.1
80°	127.0	130.6	134.4	134.5	132.9
82.5°	71.6	76.4	79.4	88.1	91.8
85°	33.2	37.0	45.1	53.2	56.8
87.5°	11.2	14.3	18.7	20.2	19.0
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	17.49	19.08	17.86	19.39	19.71	17.75	19.33	18.11	19.65	19.96
	3H	18.95	20.38	19.33	20.70	21.06	19.22	20.64	19.60	20.97	21.33
	4H	19.37	20.71	19.77	21.06	21.44	19.63	20.97	20.03	21.32	21.69
	6H	19.58	20.82	19.99	21.18	21.58	19.83	21.07	20.24	21.43	21.82
	8H	19.61	20.79	20.03	21.18	21.58	19.87	21.05	20.30	21.44	21.84
	12H	19.61	20.74	20.04	21.12	21.55	19.90	21.03	20.33	21.41	21.84
4H	2H	18.06	19.40	18.46	19.75	20.12	18.27	19.61	18.67	19.95	20.33
	3H	19.69	20.81	20.10	21.21	21.61	19.93	21.04	20.34	21.44	21.84
	4H	20.20	21.21	20.64	21.62	22.06	20.43	21.43	20.86	21.85	22.28
	6H	20.49	21.36	20.94	21.80	22.26	20.71	21.58	21.16	22.02	22.48
	8H	20.53	21.35	20.99	21.79	22.26	20.77	21.59	21.24	22.03	22.50
	12H	20.55	21.27	21.03	21.75	22.22	20.82	21.55	21.30	22.03	22.50
8H	4H	20.40	21.21	20.86	21.65	22.12	20.60	21.42	21.06	21.86	22.32
	6H	20.74	21.41	21.23	21.90	22.37	20.94	21.61	21.43	22.10	22.58
	8H	20.81	21.41	21.32	21.92	22.40	21.04	21.64	21.55	22.15	22.63
	12H	20.84	21.38	21.35	21.87	22.43	21.13	21.66	21.63	22.15	22.71
12H	4H	20.40	21.13	20.88	21.60	22.07	20.60	21.33	21.08	21.80	22.27
	6H	20.74	21.34	21.25	21.85	22.33	20.93	21.54	21.45	22.05	22.53
	8H	20.84	21.37	21.35	21.86	22.43	21.07	21.60	21.58	22.09	22.66