

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: P1498720

Luminaire Tested: MAE-G-2-120-3LO-HI-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498720
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-HI-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

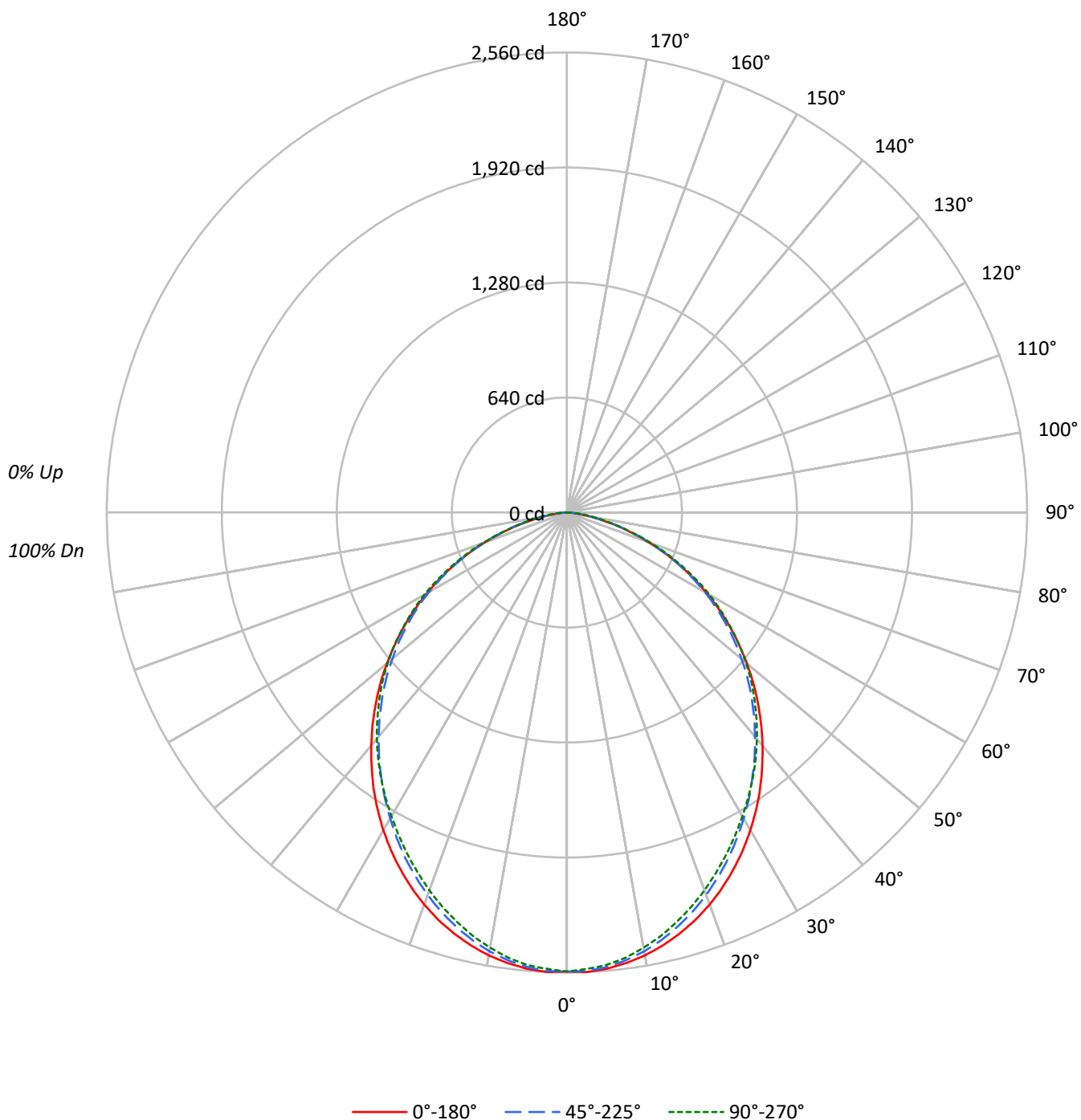
Lumens per Lamp: N/A
Luminaire Lumens: 6207.0 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 79.2
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	80	98	90	85	79	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	56		66	61	56		64
5	78	65	56	50	75	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	44	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6873	6873	6873
5°	6884	6859	6828
10°	6838	6775	6721
15°	6756	6644	6573
20°	6649	6485	6406
25°	6507	6307	6230
30°	6344	6110	6066
35°	6159	5912	5923
40°	5949	5720	5776
45°	5721	5525	5619
50°	5471	5311	5440
55°	5187	5067	5210
60°	4838	4764	4936
65°	4406	4372	4504
70°	3808	3856	3930
75°	3039	3169	3143
80°	2070	2247	2300
85°	1090	1553	1991

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5721 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.1	3.9
10°-20°	671.9	10.8
20°-30°	981.4	15.8
30°-40°	1136.6	18.3
40°-50°	1133.3	18.3
50°-60°	975.8	15.7
60°-70°	684.2	11.0
70°-80°	321.3	5.2
80°-90°	62.5	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°	1893.4	30.5
0°-40°	3029.9	48.8
0°-60°	5139.0	82.8
0°-90°	6207.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6207.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2554	2554	2554	2554	2554	
5°	2548	2540	2539	2524	2528	242
15°	2425	2408	2385	2357	2359	683
25°	2191	2163	2124	2094	2098	1009
35°	1875	1838	1800	1792	1803	1171
45°	1503	1471	1452	1464	1476	1160
55°	1106	1079	1080	1102	1111	987
65°	692	676	687	703	707	684
75°	292	288	305	306	302	314
85°	35	40	50	60	64	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2554.1	2554.1	2554.1	2554.1	2554.1
2.5°	2559.6	2551.8	2554.1	2541.8	2541.9
5°	2548.5	2539.5	2539.2	2523.7	2527.8
7.5°	2528.9	2518.4	2513.6	2495.6	2498.8
10°	2502.3	2489.1	2479.3	2457.6	2459.6
12.5°	2467.0	2452.0	2436.1	2410.6	2413.4
15°	2425.2	2407.8	2384.7	2357.3	2359.2
17.5°	2377.0	2356.5	2328.1	2297.0	2301.2
20°	2321.8	2298.4	2264.7	2232.2	2237.0
22.5°	2259.6	2233.8	2196.3	2164.9	2168.8
25°	2191.4	2163.4	2124.3	2094.1	2098.2
27.5°	2119.5	2088.2	2046.8	2020.7	2025.5
30°	2041.6	2008.3	1966.3	1944.3	1952.1
32.5°	1959.5	1925.1	1884.5	1869.2	1878.5
35°	1874.7	1838.2	1799.7	1791.6	1802.9
37.5°	1783.9	1750.4	1714.8	1713.9	1725.1
40°	1693.4	1658.7	1628.2	1632.2	1644.4
42.5°	1599.8	1567.1	1541.0	1550.4	1561.4
45°	1503.2	1471.1	1451.8	1464.4	1476.4
47.5°	1407.3	1375.5	1361.8	1377.2	1390.9
50°	1306.8	1277.7	1268.7	1288.1	1299.5
52.5°	1205.3	1177.6	1174.9	1196.4	1208.4
55°	1105.7	1078.8	1080.1	1101.8	1110.6
57.5°	1002.1	980.7	984.4	1004.7	1014.9
60°	899.0	879.0	885.1	906.6	917.2
62.5°	795.5	778.3	786.5	806.9	812.8
65°	691.9	676.5	686.6	702.7	707.3
67.5°	586.6	575.6	588.2	602.1	604.6
70°	484.0	472.8	490.1	500.6	499.5
72.5°	384.2	377.6	393.8	401.1	397.1
75°	292.3	288.2	304.8	305.5	302.3
77.5°	207.3	205.7	219.6	219.0	218.6
80°	133.6	137.2	145.0	148.8	148.4
82.5°	75.5	81.1	87.7	98.8	103.4
85°	35.3	40.0	50.3	60.2	64.5
87.5°	12.0	15.5	21.0	22.8	21.6
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	17.63	19.22	18.00	19.53	19.84	17.79	19.37	18.15	19.69	20.00
	3H	19.09	20.52	19.47	20.85	21.21	19.30	20.72	19.67	21.05	21.41
	4H	19.52	20.86	19.92	21.21	21.59	19.74	21.08	20.14	21.42	21.80
	6H	19.73	20.97	20.15	21.34	21.73	19.97	21.21	20.38	21.57	21.96
	8H	19.76	20.94	20.19	21.33	21.73	20.03	21.21	20.45	21.60	22.00
	12H	19.76	20.89	20.19	21.28	21.70	20.06	21.19	20.49	21.57	22.00
4H	2H	18.18	19.52	18.58	19.87	20.25	18.31	19.65	18.71	20.00	20.38
	3H	19.83	20.94	20.24	21.34	21.74	20.01	21.13	20.42	21.52	21.92
	4H	20.34	21.34	20.77	21.76	22.20	20.55	21.55	20.98	21.97	22.40
	6H	20.63	21.50	21.09	21.95	22.40	20.87	21.74	21.32	22.18	22.64
	8H	20.68	21.49	21.14	21.94	22.40	20.95	21.76	21.41	22.21	22.67
	12H	20.69	21.42	21.17	21.90	22.37	21.01	21.74	21.49	22.22	22.69
8H	4H	20.54	21.36	21.00	21.80	22.27	20.73	21.54	21.19	21.99	22.45
	6H	20.89	21.56	21.38	22.05	22.53	21.11	21.78	21.61	22.27	22.75
	8H	20.96	21.57	21.48	22.08	22.56	21.23	21.84	21.74	22.34	22.83
	12H	21.00	21.54	21.51	22.03	22.59	21.34	21.87	21.85	22.36	22.93
12H	4H	20.54	21.27	21.03	21.75	22.22	20.73	21.46	21.21	21.93	22.40
	6H	20.89	21.50	21.41	22.01	22.49	21.11	21.72	21.62	22.22	22.71
	8H	21.00	21.54	21.51	22.03	22.59	21.27	21.80	21.78	22.29	22.86

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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