

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: P1498768

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498768
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-30-90-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

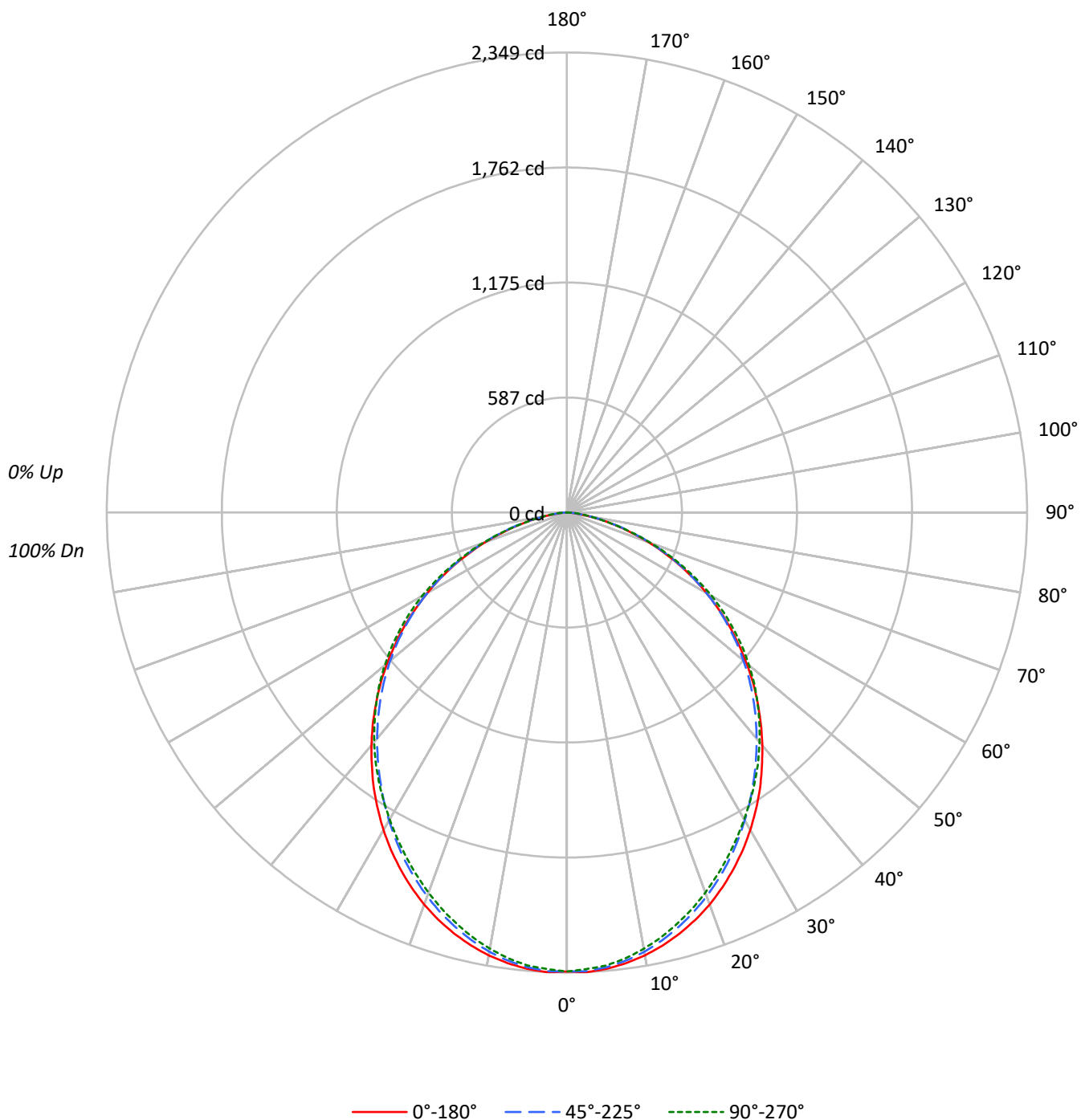
Lumens per Lamp: N/A
Luminaire Lumens: 5723.0 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
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	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	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	41	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6307	6307	6307
5°	6317	6296	6270
10°	6274	6223	6180
15°	6199	6109	6057
20°	6099	5972	5915
25°	5968	5816	5763
30°	5817	5641	5622
35°	5646	5465	5501
40°	5452	5293	5375
45°	5241	5119	5238
50°	5011	4926	5081
55°	4750	4704	4868
60°	4428	4425	4603
65°	4029	4057	4167
70°	3478	3558	3589
75°	2771	2886	2800
80°	1878	1987	1967
85°	982	1328	1673

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5241 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.5	3.9
10°-20°	617.9	10.8
20°-30°	904.4	15.8
30°-40°	1049.5	18.3
40°-50°	1048.5	18.3
50°-60°	904.1	15.8
60°-70°	632.0	11.0
70°-80°	291.8	5.1
80°-90°	54.4	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°	1742.7	30.5
0°-40°	2792.2	48.8
0°-60°	4744.7	82.9
0°-90°	5723.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5723.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2344	2344	2344	2344	2344	
5°	2339	2330	2331	2318	2321	222
15°	2225	2210	2193	2172	2174	627
25°	2010	1987	1959	1936	1941	925
35°	1719	1690	1664	1662	1674	1074
45°	1377	1353	1345	1363	1376	1063
55°	1012	993	1003	1028	1038	904
65°	633	623	637	651	654	625
75°	266	265	278	274	269	286
85°	32	35	43	51	54	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2343.7	2343.7	2343.7	2343.7	2343.7
2.5°	2349.1	2340.9	2343.7	2333.5	2332.9
5°	2338.7	2329.8	2330.6	2317.6	2321.1
7.5°	2320.7	2310.7	2307.8	2293.1	2296.0
10°	2296.1	2283.9	2277.3	2259.8	2261.8
12.5°	2263.6	2250.2	2238.9	2218.5	2221.5
15°	2225.2	2209.9	2193.0	2171.6	2174.0
17.5°	2180.8	2163.2	2142.4	2118.1	2122.6
20°	2129.9	2110.2	2085.6	2060.0	2065.5
22.5°	2072.7	2051.3	2023.7	1999.5	2004.5
25°	2009.9	1987.2	1958.8	1935.9	1941.1
27.5°	1943.8	1918.3	1888.6	1869.6	1875.6
30°	1872.1	1845.3	1815.5	1800.4	1809.4
32.5°	1796.5	1769.2	1740.8	1732.2	1742.8
35°	1718.6	1689.7	1663.5	1661.8	1674.4
37.5°	1635.1	1609.2	1586.0	1591.1	1603.7
40°	1552.0	1525.1	1506.8	1516.4	1530.1
42.5°	1466.1	1441.1	1426.9	1441.7	1454.1
45°	1377.2	1353.2	1345.1	1362.7	1376.3
47.5°	1289.5	1265.4	1262.3	1282.4	1297.6
50°	1197.0	1175.5	1176.6	1200.4	1213.6
52.5°	1104.1	1083.7	1090.1	1115.8	1129.0
55°	1012.5	993.0	1002.7	1028.0	1037.7
57.5°	917.4	902.8	914.1	937.1	947.8
60°	822.8	809.3	822.1	844.9	855.3
62.5°	727.9	716.9	730.4	750.6	755.4
65°	632.7	623.2	637.2	651.0	654.5
67.5°	536.1	530.2	544.9	555.1	556.4
70°	442.0	435.5	452.2	458.7	456.2
72.5°	350.5	347.6	361.3	364.3	358.9
75°	266.5	265.0	277.6	274.1	269.3
77.5°	188.6	188.5	197.7	193.0	190.9
80°	121.2	124.7	128.2	128.4	126.9
82.5°	68.2	72.8	75.8	84.1	87.6
85°	31.8	35.3	43.0	50.8	54.2
87.5°	10.8	13.6	17.8	19.3	18.2
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	17.33	18.92	17.70	19.23	19.54	17.59	19.17	17.95	19.49	19.80
	3H	18.79	20.21	19.17	20.54	20.90	19.06	20.48	19.43	20.81	21.17
	4H	19.21	20.55	19.61	20.90	21.28	19.47	20.81	19.87	21.15	21.53
	6H	19.42	20.66	19.83	21.02	21.41	19.67	20.91	20.08	21.27	21.66
	8H	19.45	20.63	19.87	21.02	21.42	19.71	20.89	20.14	21.28	21.68
	12H	19.45	20.58	19.88	20.96	21.39	19.74	20.87	20.17	21.25	21.68
4H	2H	17.90	19.24	18.30	19.58	19.96	18.10	19.44	18.50	19.79	20.17
	3H	19.53	20.64	19.94	21.04	21.44	19.76	20.88	20.17	21.27	21.68
	4H	20.04	21.04	20.47	21.46	21.90	20.27	21.27	20.70	21.68	22.12
	6H	20.33	21.20	20.78	21.64	22.10	20.55	21.42	21.00	21.86	22.32
	8H	20.37	21.18	20.83	21.63	22.09	20.61	21.43	21.07	21.87	22.33
	12H	20.38	21.11	20.86	21.59	22.06	20.66	21.39	21.14	21.87	22.34
8H	4H	20.24	21.05	20.70	21.49	21.96	20.44	21.25	20.90	21.70	22.16
	6H	20.57	21.25	21.07	21.74	22.21	20.78	21.45	21.27	21.94	22.41
	8H	20.65	21.25	21.16	21.76	22.24	20.87	21.48	21.39	21.98	22.47
	12H	20.68	21.21	21.19	21.70	22.27	20.96	21.49	21.47	21.99	22.55
12H	4H	20.23	20.96	20.72	21.44	21.91	20.44	21.16	20.92	21.64	22.11
	6H	20.57	21.18	21.09	21.69	22.17	20.77	21.37	21.28	21.88	22.37
	8H	20.68	21.21	21.19	21.70	22.27	20.91	21.44	21.42	21.93	22.49