

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: P1498744

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498744
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-LO-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

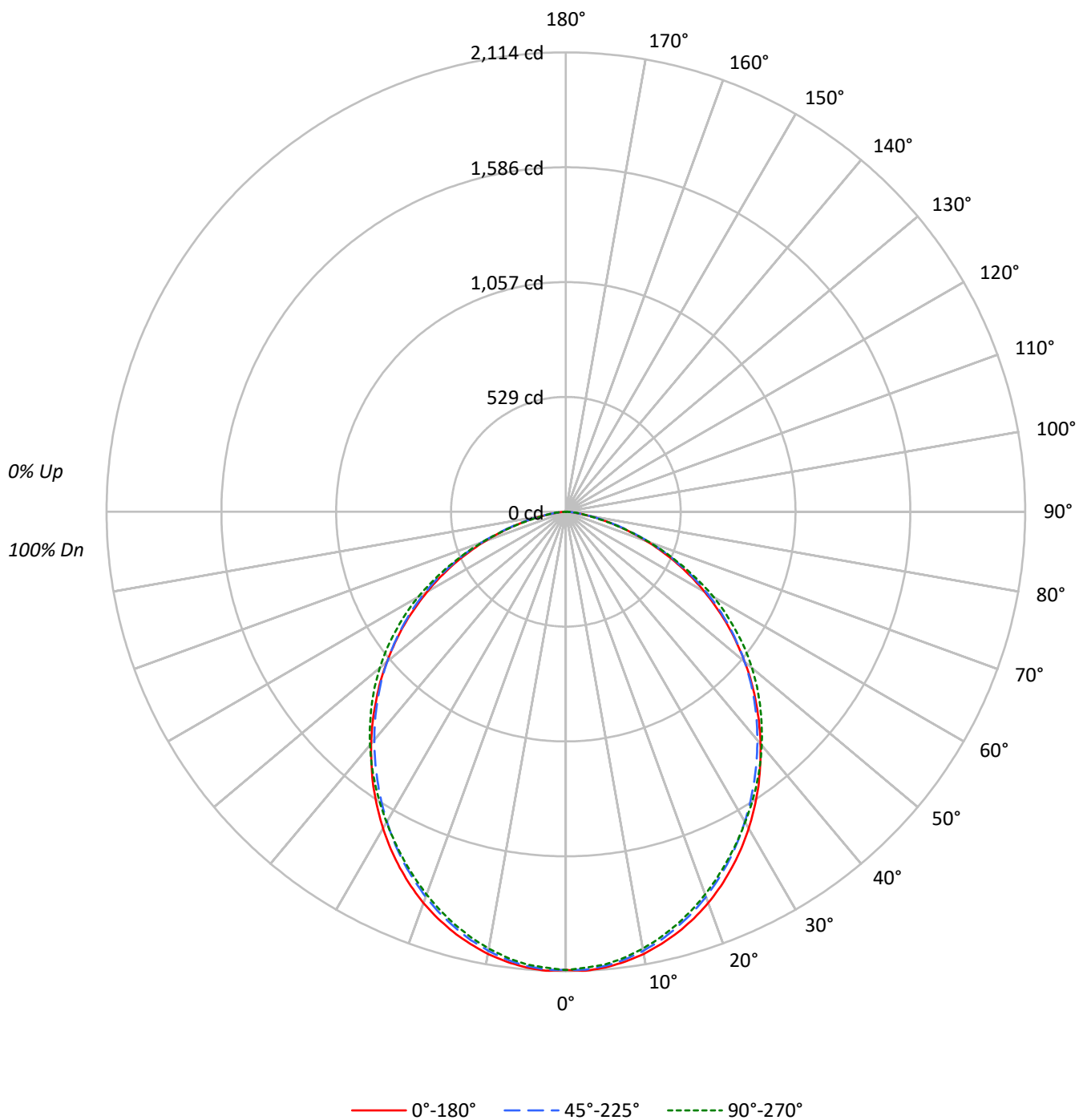
Lumens per Lamp: N/A
Luminaire Lumens: 5183.0 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 61.2
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	81	98	91	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	57		67	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	40	35	60	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	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5675	5675	5675
5°	5685	5667	5647
10°	5646	5607	5578
15°	5577	5514	5481
20°	5487	5400	5367
25°	5366	5268	5243
30°	5229	5118	5128
35°	5074	4966	5029
40°	4898	4817	4927
45°	4707	4666	4812
50°	4498	4496	4679
55°	4263	4298	4487
60°	3971	4047	4232
65°	3608	3707	3792
70°	3109	3226	3209
75°	2470	2570	2416
80°	1666	1697	1595
85°	858	1078	1315

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4812 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.5	3.8
10°-20°	557.6	10.8
20°-30°	818.4	15.8
30°-40°	952.3	18.4
40°-50°	953.9	18.4
50°-60°	824.1	15.9
60°-70°	573.9	11.1
70°-80°	258.8	5.0
80°-90°	45.4	0.9
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°	1574.6	30.4
0°-40°	2526.9	48.8
0°-60°	4304.9	83.1
0°-90°	5183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5183.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2109	2109	2109	2109	2109	
5°	2105	2096	2098	2088	2091	200
15°	2002	1989	1979	1964	1967	564
25°	1807	1791	1774	1759	1766	832
35°	1544	1524	1512	1517	1531	965
45°	1237	1222	1226	1249	1264	954
55°	909	897	916	946	956	811
65°	567	564	582	593	596	560
75°	238	239	247	239	232	255
85°	28	30	35	40	43	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2109.0	2109.0	2109.0	2109.0	2109.0
2.5°	2114.1	2105.6	2109.0	2101.0	2099.7
5°	2104.6	2095.8	2097.8	2087.8	2090.6
7.5°	2088.4	2078.9	2078.2	2067.2	2069.8
10°	2066.1	2055.0	2051.9	2039.2	2041.2
12.5°	2036.7	2025.0	2018.8	2004.3	2007.5
15°	2002.0	1989.1	1979.1	1964.5	1967.4
17.5°	1961.9	1947.5	1935.3	1918.5	1923.3
20°	1915.9	1900.2	1885.8	1867.9	1874.2
22.5°	1864.2	1847.7	1831.2	1815.0	1821.2
25°	1807.4	1790.6	1774.1	1759.3	1765.8
27.5°	1747.7	1728.8	1712.1	1701.1	1708.4
30°	1682.9	1663.5	1647.1	1639.7	1650.2
32.5°	1614.7	1595.2	1580.5	1579.4	1591.4
35°	1544.5	1524.0	1511.6	1516.9	1531.0
37.5°	1469.1	1451.6	1442.4	1454.0	1468.3
40°	1394.2	1376.0	1371.4	1387.3	1402.5
42.5°	1316.9	1300.7	1299.7	1320.3	1334.5
45°	1236.8	1221.6	1226.1	1249.2	1264.5
47.5°	1158.0	1142.6	1151.3	1176.7	1193.4
50°	1074.4	1061.6	1073.9	1102.5	1117.7
52.5°	991.2	978.9	995.5	1025.9	1040.5
55°	908.6	897.2	916.2	945.7	956.3
57.5°	822.9	815.9	835.8	861.7	872.9
60°	737.8	731.6	751.9	776.1	786.3
62.5°	652.5	648.4	667.9	687.7	691.3
65°	566.6	563.8	582.2	593.3	595.6
67.5°	479.7	479.6	496.6	502.7	502.7
70°	395.1	393.9	410.0	412.1	407.9
72.5°	312.8	314.2	324.9	323.2	316.3
75°	237.6	239.2	247.2	238.9	232.4
77.5°	167.8	169.2	173.3	164.1	160.1
80°	107.5	110.7	109.5	105.6	102.9
82.5°	60.1	63.6	62.6	67.7	70.0
85°	27.8	30.0	34.9	40.4	42.6
87.5°	9.5	11.4	14.3	15.3	14.3
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	16.96	18.55	17.33	18.86	19.18	17.35	18.93	17.71	19.25	19.56
	3H	18.41	19.84	18.79	20.16	20.52	18.77	20.19	19.15	20.52	20.88
	4H	18.83	20.17	19.23	20.52	20.89	19.14	20.48	19.54	20.83	21.20
	6H	19.03	20.27	19.44	20.63	21.03	19.30	20.54	19.71	20.90	21.30
	8H	19.06	20.24	19.48	20.63	21.03	19.33	20.51	19.76	20.90	21.30
	12H	19.06	20.18	19.49	20.57	20.99	19.34	20.47	19.77	20.85	21.28
4H	2H	17.55	18.88	17.95	19.23	19.61	17.86	19.20	18.26	19.55	19.92
	3H	19.17	20.28	19.58	20.68	21.08	19.46	20.58	19.87	20.97	21.37
	4H	19.67	20.68	20.11	21.09	21.53	19.92	20.92	20.35	21.34	21.77
	6H	19.95	20.82	20.41	21.26	21.72	20.15	21.02	20.61	21.46	21.92
	8H	19.99	20.80	20.45	21.25	21.71	20.20	21.01	20.66	21.45	21.92
	12H	20.00	20.73	20.48	21.21	21.68	20.23	20.96	20.71	21.43	21.91
8H	4H	19.86	20.67	20.32	21.11	21.58	20.09	20.90	20.55	21.34	21.81
	6H	20.19	20.86	20.68	21.35	21.82	20.36	21.03	20.86	21.52	22.00
	8H	20.25	20.85	20.76	21.36	21.85	20.44	21.04	20.95	21.54	22.03
	12H	20.29	20.81	20.79	21.31	21.87	20.50	21.03	21.01	21.52	22.09
12H	4H	19.86	20.58	20.34	21.06	21.53	20.08	20.81	20.56	21.28	21.75
	6H	20.18	20.78	20.69	21.29	21.78	20.36	20.96	20.87	21.47	21.95
	8H	20.28	20.81	20.79	21.30	21.86	20.46	20.99	20.97	21.48	22.05