

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: P1498738

Luminaire Tested: MAE-G-2-120-3LO-HI-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498738
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-50-90-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

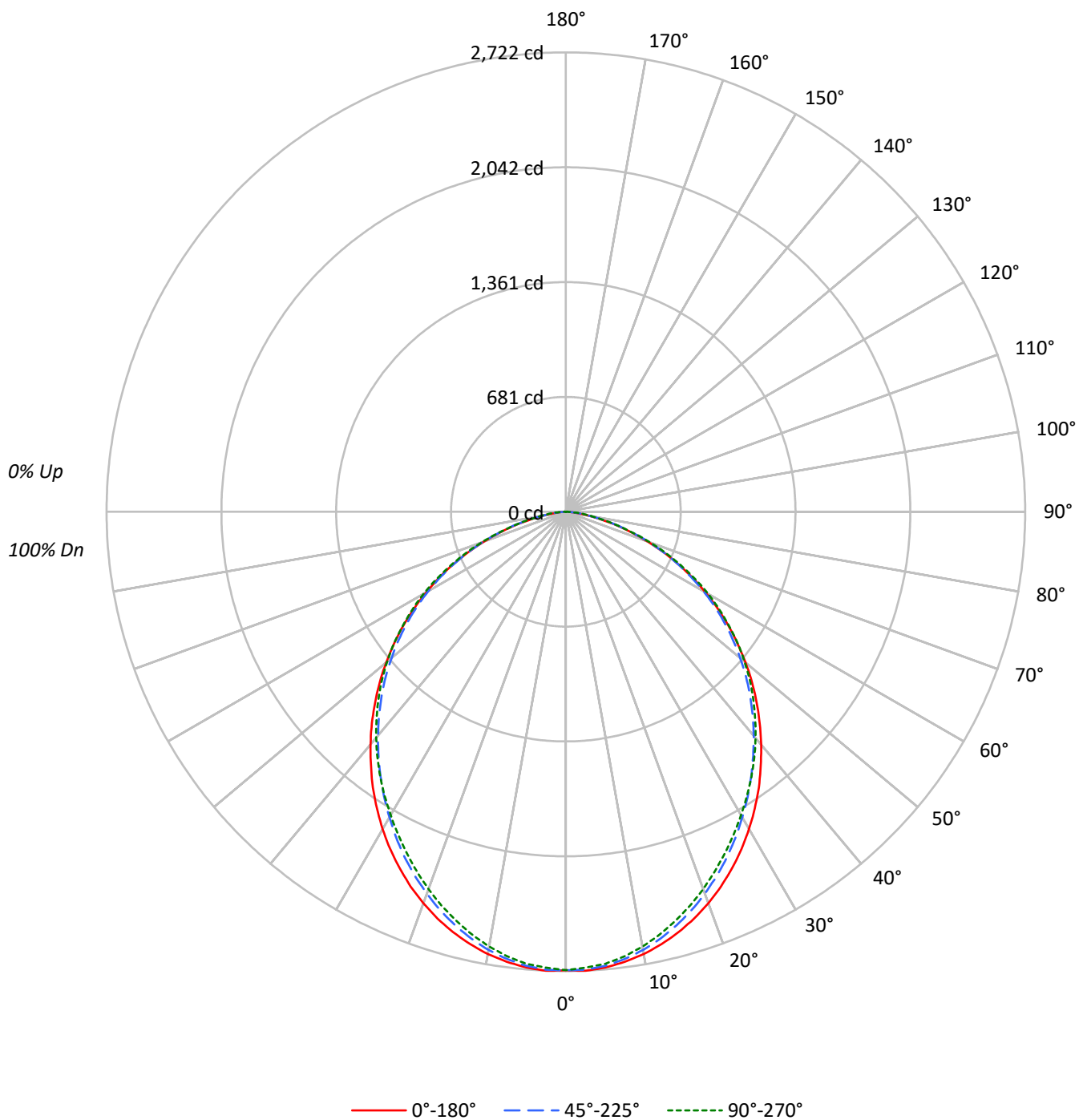
Lumens per Lamp: N/A
Luminaire Lumens: 6601.0 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	7309	7309	7309
5°	7321	7294	7262
10°	7272	7204	7147
15°	7185	7065	6990
20°	7071	6897	6813
25°	6920	6707	6625
30°	6747	6498	6451
35°	6550	6288	6298
40°	6326	6083	6143
45°	6084	5876	5976
50°	5818	5648	5786
55°	5516	5389	5541
60°	5145	5066	5250
65°	4685	4649	4790
70°	4050	4101	4180
75°	3232	3371	3343
80°	2201	2391	2445
85°	1158	1652	2121

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6084 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.4	3.9
10°-20°	714.5	10.8
20°-30°	1043.7	15.8
30°-40°	1208.7	18.3
40°-50°	1205.2	18.3
50°-60°	1037.7	15.7
60°-70°	727.6	11.0
70°-80°	341.7	5.2
80°-90°	66.5	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°	2013.5	30.5
0°-40°	3222.2	48.8
0°-60°	5465.2	82.8
0°-90°	6601.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6601.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2716	2716	2716	2716	2716	
5°	2710	2701	2700	2684	2688	257
15°	2579	2560	2536	2507	2509	727
25°	2330	2301	2259	2227	2231	1073
35°	1994	1955	1914	1905	1917	1246
45°	1599	1564	1544	1557	1570	1233
55°	1176	1147	1149	1172	1181	1050
65°	736	720	730	747	752	727
75°	311	306	324	325	322	334
85°	38	42	54	64	69	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2716.1	2716.1	2716.1	2716.1	2716.1
2.5°	2722.2	2713.8	2716.1	2703.1	2703.3
5°	2710.2	2700.7	2700.4	2683.9	2688.2
7.5°	2689.4	2678.2	2673.1	2654.0	2657.5
10°	2661.2	2647.0	2636.6	2613.6	2615.6
12.5°	2623.7	2607.6	2590.8	2563.6	2566.6
15°	2579.2	2560.5	2536.1	2506.8	2509.0
17.5°	2527.9	2506.1	2475.8	2442.8	2447.3
20°	2469.1	2444.3	2408.4	2373.9	2379.1
22.5°	2403.1	2375.5	2335.7	2302.3	2306.5
25°	2330.5	2300.8	2259.0	2227.0	2231.3
27.5°	2254.0	2220.7	2176.7	2149.0	2154.0
30°	2171.2	2135.8	2091.1	2067.7	2076.0
32.5°	2083.9	2047.3	2004.1	1987.7	1997.7
35°	1993.8	1954.8	1914.0	1905.3	1917.3
37.5°	1897.2	1861.5	1823.6	1822.7	1834.6
40°	1800.9	1764.0	1731.6	1735.8	1748.8
42.5°	1701.4	1666.5	1638.8	1648.9	1660.5
45°	1598.6	1564.5	1544.0	1557.4	1570.2
47.5°	1496.7	1462.8	1448.3	1464.6	1479.2
50°	1389.8	1358.7	1349.2	1369.9	1382.0
52.5°	1281.8	1252.4	1249.5	1272.4	1285.1
55°	1175.8	1147.4	1148.7	1171.7	1181.0
57.5°	1065.7	1043.0	1046.9	1068.5	1079.3
60°	956.0	934.8	941.3	964.2	975.4
62.5°	846.0	827.6	836.4	858.1	864.4
65°	735.8	719.5	730.2	747.2	752.2
67.5°	623.9	612.1	625.6	640.3	643.0
70°	514.7	502.8	521.2	532.4	531.3
72.5°	408.6	401.6	418.9	426.7	422.3
75°	310.9	306.5	324.2	324.8	321.5
77.5°	220.4	218.8	233.6	232.9	232.4
80°	142.0	145.9	154.3	158.2	157.8
82.5°	80.3	86.3	93.2	105.1	110.0
85°	37.5	42.5	53.5	64.0	68.7
87.5°	12.7	16.5	22.4	24.2	23.0
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	17.84	19.43	18.21	19.74	20.06	18.00	19.59	18.37	19.90	20.21
	3H	19.31	20.73	19.69	21.06	21.42	19.51	20.94	19.89	21.26	21.62
	4H	19.74	21.07	20.13	21.42	21.80	19.95	21.29	20.35	21.64	22.01
	6H	19.95	21.19	20.36	21.55	21.94	20.18	21.42	20.59	21.79	22.18
	8H	19.98	21.16	20.40	21.55	21.95	20.24	21.42	20.67	21.81	22.21
	12H	19.98	21.11	20.41	21.49	21.92	20.28	21.41	20.71	21.79	22.22
4H	2H	18.40	19.74	18.80	20.09	20.46	18.53	19.86	18.92	20.21	20.59
	3H	20.04	21.15	20.45	21.55	21.95	20.23	21.34	20.64	21.74	22.14
	4H	20.56	21.56	20.99	21.97	22.41	20.76	21.77	21.20	22.18	22.62
	6H	20.85	21.72	21.30	22.16	22.62	21.08	21.95	21.54	22.40	22.85
	8H	20.89	21.71	21.35	22.15	22.62	21.16	21.98	21.63	22.42	22.89
	12H	20.91	21.64	21.39	22.11	22.58	21.23	21.96	21.71	22.43	22.90
8H	4H	20.76	21.57	21.22	22.01	22.48	20.94	21.76	21.41	22.20	22.67
	6H	21.10	21.78	21.60	22.27	22.74	21.33	22.00	21.82	22.49	22.96
	8H	21.18	21.78	21.69	22.29	22.78	21.45	22.05	21.96	22.56	23.04
	12H	21.22	21.75	21.73	22.24	22.80	21.55	22.09	22.06	22.58	23.14
12H	4H	20.76	21.49	21.24	21.96	22.43	20.94	21.67	21.42	22.15	22.62
	6H	21.11	21.71	21.62	22.22	22.71	21.32	21.93	21.84	22.44	22.92
	8H	21.22	21.75	21.73	22.24	22.81	21.48	22.02	21.99	22.51	23.07