

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: P1498147

Luminaire Tested: MAE-G-2-120-1LO-HI-30-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-1LO-HI-30-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

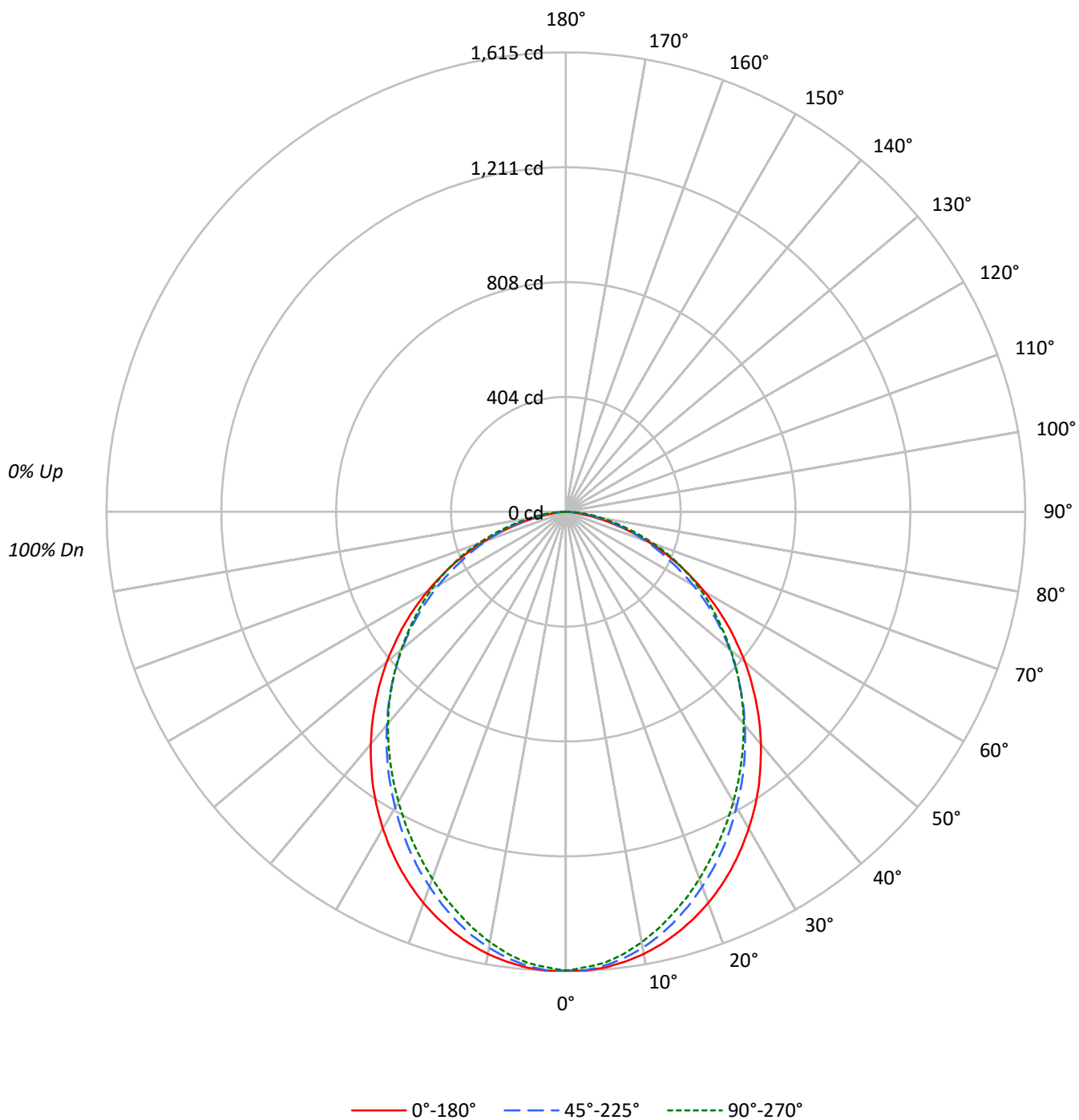
Lumens per Lamp: N/A
Luminaire Lumens: 3814.0 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.1 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 54.7
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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	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	43	41		
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4341	4341	4341
5°	4343	4324	4297
10°	4313	4254	4199
15°	4261	4146	4069
20°	4191	4015	3931
25°	4102	3878	3792
30°	3996	3727	3658
35°	3881	3585	3534
40°	3748	3439	3417
45°	3601	3296	3292
50°	3443	3147	3162
55°	3259	2976	3037
60°	3034	2782	2942
65°	2770	2548	2798
70°	2412	2327	2591
75°	1937	2050	2278
80°	1353	1681	1951
85°	763	1346	1812

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3601 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	4.0
10°-20°	419.6	11.0
20°-30°	606.2	15.9
30°-40°	693.9	18.2
40°-50°	683.4	17.9
50°-60°	583.1	15.3
60°-70°	415.0	10.9
70°-80°	211.5	5.5
80°-90°	50.0	1.3
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°	1177.0	30.9
0°-40°	1870.9	49.1
0°-60°	3137.4	82.3
0°-90°	3814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3814.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1613	1613	1613	1613	1613	
5°	1608	1607	1601	1587	1591	153
15°	1530	1519	1488	1460	1460	431
25°	1382	1355	1306	1277	1277	636
35°	1181	1144	1091	1074	1076	738
45°	946	910	866	862	865	730
55°	695	661	634	639	647	620
65°	435	408	400	427	439	430
75°	186	175	197	215	219	201
85°	25	31	44	54	59	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1613.1	1613.1	1613.1	1613.1	1613.1
2.5°	1614.7	1616.4	1613.1	1599.8	1602.8
5°	1607.8	1606.6	1600.7	1586.8	1590.7
7.5°	1595.2	1592.5	1581.9	1564.9	1567.2
10°	1578.5	1573.1	1556.8	1535.2	1536.6
12.5°	1556.7	1548.9	1525.6	1500.2	1501.1
15°	1529.6	1518.7	1488.2	1460.0	1460.5
17.5°	1498.7	1485.1	1447.7	1416.8	1419.3
20°	1463.5	1445.8	1402.2	1371.6	1372.7
22.5°	1424.4	1402.6	1355.9	1325.2	1324.8
25°	1381.6	1355.2	1306.0	1277.2	1277.0
27.5°	1335.4	1306.3	1254.2	1226.6	1227.8
30°	1286.1	1254.2	1199.6	1175.8	1177.1
32.5°	1235.1	1200.9	1146.3	1125.7	1126.9
35°	1181.4	1144.4	1091.4	1073.6	1075.7
37.5°	1124.1	1087.9	1034.9	1022.7	1024.2
40°	1067.0	1029.6	979.1	969.9	972.7
42.5°	1007.7	970.9	923.2	916.3	919.9
45°	946.3	909.9	866.1	862.0	865.0
47.5°	884.1	848.5	809.5	807.1	811.8
50°	822.4	787.6	751.6	752.0	755.4
52.5°	757.0	724.1	693.7	695.2	701.9
55°	694.6	661.2	634.3	639.1	647.4
57.5°	629.6	600.3	576.2	585.7	597.5
60°	563.8	535.4	517.0	533.9	546.6
62.5°	498.9	471.4	457.7	481.7	493.1
65°	435.1	408.5	400.2	427.3	439.4
67.5°	371.0	347.3	347.8	377.1	386.3
70°	306.6	285.1	295.8	322.7	329.3
72.5°	245.4	227.8	246.5	268.8	272.9
75°	186.3	174.6	197.2	215.3	219.1
77.5°	133.7	127.6	150.5	165.7	170.0
80°	87.3	89.0	108.5	121.4	125.9
82.5°	51.1	56.4	72.3	86.3	90.9
85°	24.7	31.1	43.6	54.1	58.7
87.5°	8.5	12.7	18.5	20.6	20.0
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	15.94	17.53	16.31	17.84	18.16	15.75	17.33	16.11	17.65	17.96
	3H	17.42	18.85	17.80	19.17	19.53	17.51	18.93	17.88	19.26	19.62
	4H	17.86	19.20	18.26	19.55	19.93	18.11	19.45	18.50	19.79	20.17
	6H	18.09	19.33	18.51	19.70	20.09	18.51	19.75	18.92	20.12	20.51
	8H	18.13	19.32	18.56	19.71	20.11	18.64	19.83	19.07	20.22	20.62
	12H	18.14	19.27	18.57	19.66	20.08	18.74	19.87	19.17	20.26	20.68
4H	2H	16.43	17.77	16.83	18.12	18.49	16.27	17.61	16.66	17.95	18.33
	3H	18.09	19.21	18.50	19.61	20.01	18.23	19.35	18.64	19.75	20.15
	4H	18.62	19.63	19.05	20.04	20.48	18.96	19.97	19.39	20.38	20.82
	6H	18.94	19.82	19.40	20.26	20.72	19.49	20.37	19.94	20.81	21.26
	8H	19.00	19.82	19.47	20.27	20.73	19.66	20.48	20.13	20.93	21.39
	12H	19.03	19.77	19.51	20.24	20.71	19.80	20.54	20.28	21.02	21.49
8H	4H	18.86	19.68	19.33	20.13	20.59	19.17	19.99	19.63	20.43	20.90
	6H	19.26	19.94	19.75	20.43	20.90	19.79	20.47	20.29	20.96	21.44
	8H	19.36	19.96	19.87	20.47	20.96	20.04	20.65	20.55	21.15	21.64
	12H	19.42	19.95	19.92	20.45	21.01	20.25	20.79	20.76	21.28	21.84
12H	4H	18.88	19.62	19.37	20.10	20.57	19.17	19.91	19.65	20.38	20.85
	6H	19.29	19.90	19.80	20.41	20.90	19.81	20.42	20.32	20.93	21.41
	8H	19.44	19.97	19.94	20.46	21.03	20.10	20.64	20.61	21.13	21.69