

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: P1498069

Luminaire Tested: MAE-G-2-120-1HI-HI-50-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498069
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-2-120-1HI-HI-50-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

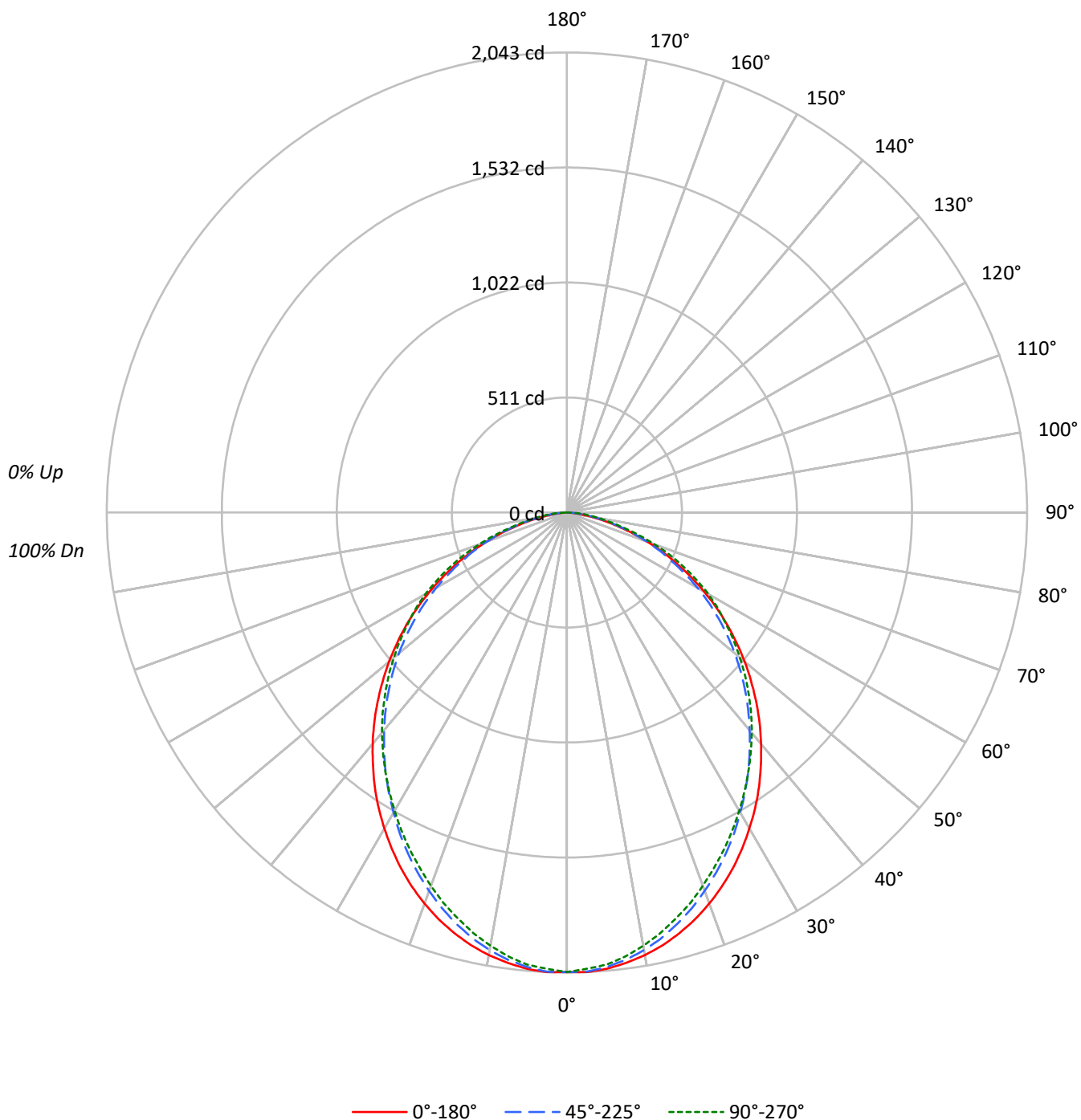
Lumens per Lamp: N/A
Luminaire Lumens: 4875.0 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 65.1
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	109	105	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	81	74	67	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	45	39	51	44	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5491	5491	5491
5°	5494	5472	5444
10°	5454	5392	5338
15°	5386	5270	5202
20°	5292	5120	5053
25°	5175	4959	4901
30°	5035	4780	4752
35°	4886	4611	4614
40°	4713	4434	4486
45°	4521	4259	4344
50°	4316	4073	4196
55°	4078	3856	4043
60°	3786	3609	3909
65°	3447	3291	3646
70°	2992	2965	3268
75°	2391	2536	2711
80°	1657	1977	2176
85°	926	1519	1988

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4521 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.5	3.9
10°-20°	533.5	10.9
20°-30°	774.4	15.9
30°-40°	890.6	18.3
40°-50°	880.9	18.1
50°-60°	753.8	15.5
60°-70°	532.4	10.9
70°-80°	260.5	5.3
80°-90°	57.4	1.2
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°	1499.5	30.8
0°-40°	2390.1	49.0
0°-60°	4024.7	82.6
0°-90°	4875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2041	2041	2041	2041	2041	
5°	2034	2032	2026	2011	2016	193
15°	1933	1922	1892	1865	1867	545
25°	1743	1716	1670	1647	1650	802
35°	1487	1450	1404	1396	1405	929
45°	1188	1154	1119	1130	1141	916
55°	869	838	822	844	862	776
65°	541	517	517	556	573	536
75°	230	219	244	260	261	248
85°	30	37	49	60	64	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2040.7	2040.7	2040.7	2040.7	2040.7
2.5°	2043.1	2044.8	2040.7	2025.2	2028.0
5°	2033.7	2032.0	2025.8	2011.0	2015.5
7.5°	2017.5	2014.6	2003.3	1985.7	1988.7
10°	1996.0	1990.2	1973.3	1951.3	1953.7
12.5°	1968.2	1960.3	1936.5	1911.3	1913.7
15°	1933.3	1922.1	1891.6	1864.8	1867.2
17.5°	1893.3	1880.3	1843.3	1814.2	1819.6
20°	1848.0	1830.5	1787.9	1760.1	1764.6
22.5°	1798.0	1776.1	1731.2	1704.2	1707.4
25°	1743.0	1716.5	1670.1	1646.6	1650.5
27.5°	1683.7	1654.5	1606.6	1584.8	1591.2
30°	1620.4	1588.9	1538.3	1522.4	1529.4
32.5°	1555.4	1521.9	1471.8	1460.6	1467.6
35°	1487.2	1450.5	1403.5	1395.8	1404.6
37.5°	1414.1	1378.8	1332.3	1332.9	1341.0
40°	1341.6	1305.1	1262.2	1266.9	1276.9
42.5°	1266.3	1230.9	1191.5	1199.1	1210.9
45°	1187.9	1153.9	1119.1	1130.1	1141.4
47.5°	1109.1	1075.6	1046.6	1060.1	1073.5
50°	1030.9	998.6	972.9	989.8	1002.3
52.5°	948.8	917.9	898.7	916.7	933.2
55°	869.2	838.0	822.0	844.0	861.7
57.5°	787.0	761.0	747.1	773.6	795.9
60°	703.5	678.0	670.5	705.0	726.4
62.5°	621.8	596.8	592.5	633.5	649.4
65°	541.4	516.8	516.8	555.5	572.6
67.5°	461.6	439.2	447.6	485.3	496.9
70°	380.3	360.3	376.8	409.1	415.3
72.5°	304.0	287.2	310.4	333.7	335.6
75°	230.0	219.4	243.9	259.9	260.7
77.5°	164.7	159.2	182.2	193.5	194.8
80°	106.9	109.1	127.6	136.6	140.4
82.5°	62.3	68.0	82.4	96.6	100.4
85°	30.0	36.8	49.2	59.9	64.4
87.5°	10.4	14.9	20.6	22.8	22.2
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	16.72	18.31	17.09	18.62	18.93	16.84	18.42	17.21	18.74	19.05
	3H	18.17	19.60	18.55	19.93	20.29	18.50	19.92	18.88	20.25	20.61
	4H	18.61	19.94	19.00	20.29	20.67	19.02	20.35	19.41	20.70	21.08
	6H	18.83	20.07	19.24	20.43	20.82	19.33	20.56	19.74	20.93	21.32
	8H	18.86	20.04	19.29	20.43	20.83	19.42	20.60	19.84	20.99	21.39
	12H	18.87	20.00	19.30	20.38	20.81	19.49	20.62	19.92	21.00	21.43
4H	2H	17.23	18.57	17.63	18.92	19.30	17.33	18.67	17.73	19.02	19.39
	3H	18.87	19.99	19.28	20.39	20.79	19.19	20.31	19.60	20.71	21.11
	4H	19.39	20.39	19.82	20.81	21.24	19.82	20.83	20.26	21.24	21.68
	6H	19.69	20.57	20.15	21.01	21.46	20.24	21.11	20.70	21.56	22.01
	8H	19.75	20.56	20.21	21.01	21.47	20.37	21.19	20.83	21.63	22.10
	12H	19.77	20.50	20.25	20.98	21.45	20.47	21.21	20.95	21.68	22.15
8H	4H	19.61	20.43	20.08	20.87	21.34	20.01	20.83	20.47	21.27	21.74
	6H	19.99	20.66	20.48	21.15	21.63	20.51	21.18	21.00	21.67	22.15
	8H	20.07	20.68	20.59	21.19	21.68	20.69	21.30	21.21	21.81	22.29
	12H	20.13	20.66	20.64	21.15	21.72	20.86	21.39	21.37	21.89	22.45
12H	4H	19.63	20.36	20.11	20.84	21.31	20.01	20.74	20.49	21.22	21.69
	6H	20.01	20.61	20.52	21.12	21.61	20.51	21.12	21.03	21.63	22.12
	8H	20.14	20.67	20.65	21.17	21.73	20.75	21.28	21.25	21.77	22.33