

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: P1498105

Luminaire Tested: MAE-G-2-120-1HI-STD-35-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498105
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-STD-35-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

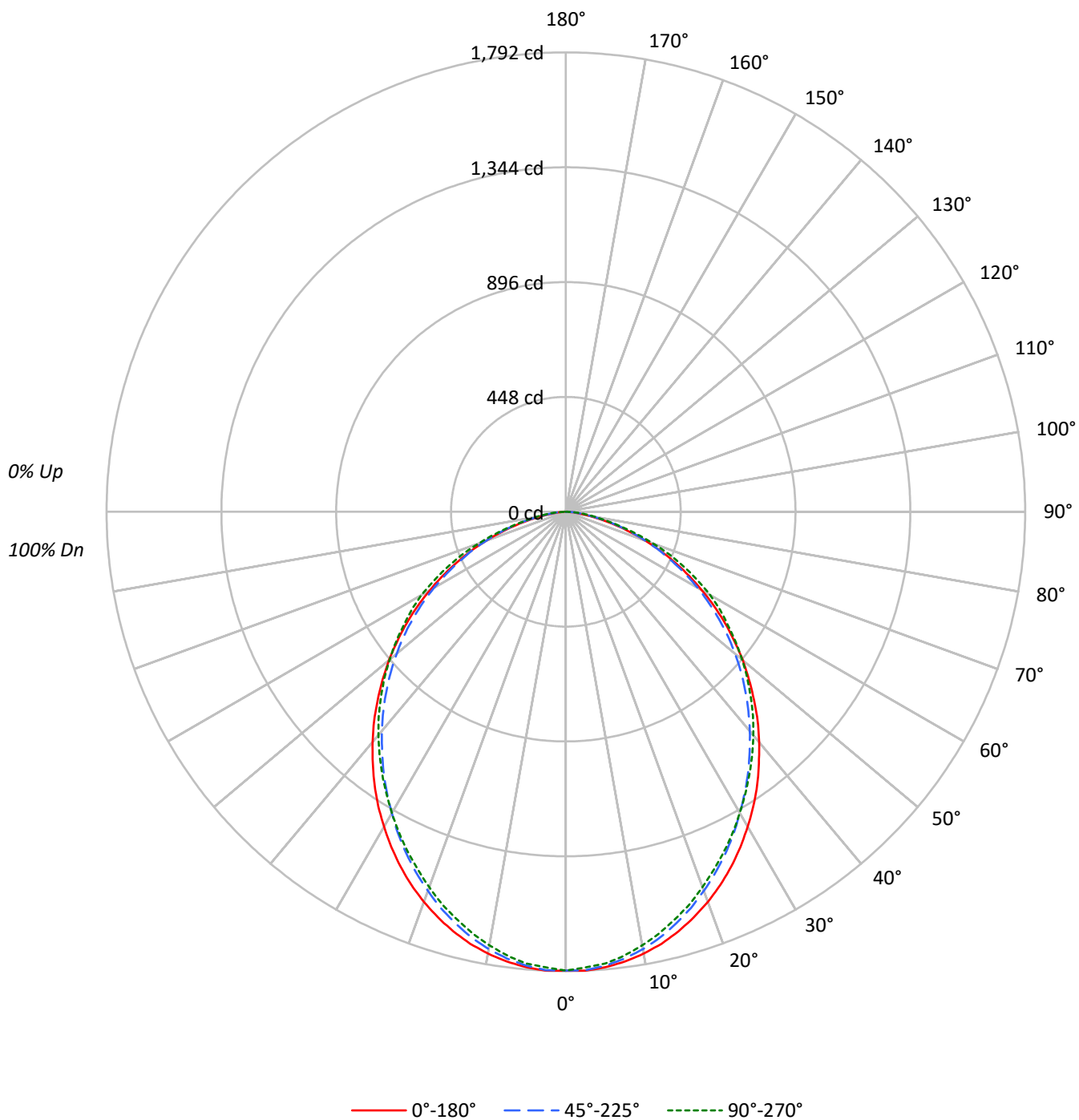
Lumens per Lamp: N/A
Luminaire Lumens: 4295.0 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 57.4
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	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	84	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	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°	4816	4816	4816
5°	4818	4800	4778
10°	4782	4733	4693
15°	4722	4632	4583
20°	4637	4506	4463
25°	4533	4370	4339
30°	4408	4218	4217
35°	4275	4073	4103
40°	4122	3921	3998
45°	3951	3770	3879
50°	3769	3608	3756
55°	3559	3418	3623
60°	3300	3200	3502
65°	3001	2912	3239
70°	2602	2608	2862
75°	2073	2201	2310
80°	1430	1675	1795
85°	797	1263	1624

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3951 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.1	3.9
10°-20°	469.0	10.9
20°-30°	682.2	15.9
30°-40°	786.0	18.3
40°-50°	778.9	18.1
50°-60°	667.4	15.5
60°-70°	469.8	10.9
70°-80°	225.6	5.3
80°-90°	48.1	1.1
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°	1319.2	30.7
0°-40°	2105.2	49.0
0°-60°	3551.5	82.7
0°-90°	4295.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4295.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1790	1790	1790	1790	1790	
5°	1784	1782	1777	1765	1769	169
15°	1695	1686	1662	1642	1645	478
25°	1527	1506	1472	1456	1461	703
35°	1301	1273	1240	1239	1249	813
45°	1038	1013	991	1007	1019	801
55°	759	736	729	754	772	677
65°	471	453	457	493	509	466
75°	199	192	212	223	222	215
85°	26	31	41	49	53	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1789.8	1789.8	1789.8	1789.8	1789.8
2.5°	1791.8	1793.2	1789.8	1776.7	1778.7
5°	1783.5	1781.9	1776.9	1765.0	1768.9
7.5°	1769.2	1766.9	1757.9	1743.8	1746.5
10°	1750.2	1745.5	1732.2	1715.0	1717.3
12.5°	1725.7	1719.6	1700.9	1681.5	1684.1
15°	1694.9	1686.1	1662.5	1642.5	1645.2
17.5°	1659.4	1649.7	1621.3	1599.6	1605.3
20°	1619.4	1606.0	1573.5	1553.3	1558.5
22.5°	1575.3	1558.5	1524.5	1505.5	1509.8
25°	1526.8	1506.1	1471.8	1456.1	1461.3
27.5°	1474.4	1451.8	1416.9	1402.9	1410.3
30°	1418.7	1394.4	1357.3	1348.8	1357.0
32.5°	1361.5	1335.7	1299.3	1295.3	1303.4
35°	1301.3	1273.3	1239.8	1238.9	1249.1
37.5°	1237.0	1210.2	1177.4	1184.2	1193.8
40°	1173.4	1145.7	1116.1	1126.6	1138.0
42.5°	1107.3	1080.6	1054.2	1067.2	1080.4
45°	1038.3	1013.2	990.6	1006.6	1019.3
47.5°	969.1	944.1	926.8	944.9	959.6
50°	900.4	876.7	861.9	883.1	897.2
52.5°	828.6	805.9	796.5	818.5	836.1
55°	758.6	735.5	728.6	754.0	772.3
57.5°	686.5	668.0	662.2	691.2	713.6
60°	613.2	594.8	594.5	629.7	650.7
62.5°	541.8	523.6	524.9	565.1	579.5
65°	471.3	453.3	457.4	493.1	508.7
67.5°	401.8	385.0	395.4	428.8	439.0
70°	330.7	315.9	331.5	359.2	363.7
72.5°	264.2	251.5	271.6	290.1	290.5
75°	199.4	191.8	211.7	223.1	222.2
77.5°	142.6	138.6	156.5	163.4	163.0
80°	92.3	94.4	108.1	113.2	115.8
82.5°	53.8	58.3	68.8	79.7	82.3
85°	25.8	31.3	40.9	49.2	52.6
87.5°	8.9	12.6	17.0	18.8	18.3
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	16.25	17.83	16.61	18.15	18.46	16.50	18.09	16.87	18.40	18.71
	3H	17.69	19.12	18.07	19.44	19.80	18.12	19.55	18.50	19.87	20.23
	4H	18.12	19.45	18.52	19.80	20.18	18.60	19.94	19.00	20.29	20.66
	6H	18.33	19.57	18.74	19.94	20.33	18.87	20.11	19.29	20.48	20.87
	8H	18.37	19.55	18.79	19.94	20.34	18.95	20.13	19.38	20.52	20.92
	12H	18.37	19.50	18.80	19.88	20.31	19.01	20.13	19.44	20.52	20.95
4H	2H	16.77	18.11	17.17	18.46	18.83	16.98	18.32	17.38	18.67	19.04
	3H	18.40	19.51	18.81	19.91	20.31	18.80	19.92	19.21	20.31	20.71
	4H	18.91	19.91	19.34	20.33	20.76	19.39	20.39	19.82	20.81	21.25
	6H	19.21	20.08	19.66	20.52	20.98	19.76	20.63	20.22	21.08	21.53
	8H	19.26	20.07	19.72	20.52	20.98	19.87	20.69	20.33	21.13	21.60
	12H	19.28	20.01	19.76	20.49	20.96	19.96	20.69	20.44	21.17	21.64
8H	4H	19.13	19.95	19.59	20.39	20.85	19.57	20.38	20.03	20.83	21.29
	6H	19.49	20.16	19.99	20.65	21.13	20.01	20.69	20.51	21.18	21.65
	8H	19.58	20.18	20.09	20.69	21.18	20.17	20.78	20.69	21.29	21.77
	12H	19.63	20.16	20.13	20.65	21.21	20.32	20.85	20.83	21.34	21.91
12H	4H	19.14	19.87	19.62	20.35	20.82	19.57	20.30	20.05	20.77	21.24
	6H	19.51	20.11	20.02	20.62	21.11	20.02	20.62	20.53	21.13	21.62
	8H	19.63	20.17	20.14	20.66	21.22	20.22	20.75	20.73	21.24	21.81