

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: P1498060

Luminaire Tested: MAE-G-2-120-1HI-HI-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498060
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-40-90-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

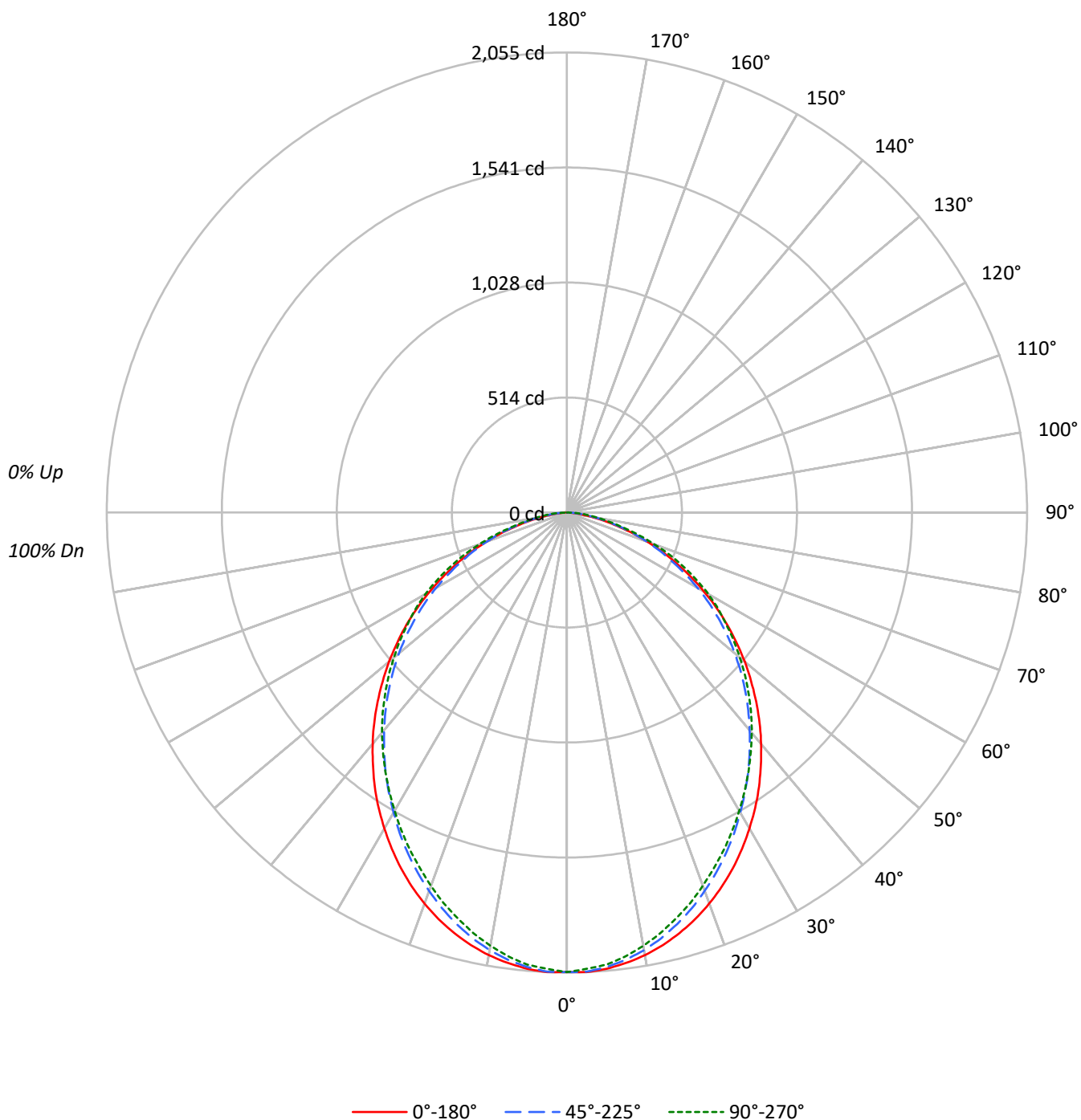
Lumens per Lamp: N/A
Luminaire Lumens: 4904.0 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	5524	5524	5524
5°	5526	5505	5477
10°	5487	5424	5370
15°	5418	5301	5233
20°	5324	5150	5083
25°	5206	4988	4930
30°	5065	4809	4780
35°	4914	4638	4642
40°	4741	4460	4512
45°	4548	4284	4369
50°	4341	4097	4221
55°	4102	3879	4067
60°	3809	3630	3933
65°	3468	3310	3668
70°	3010	2983	3287
75°	2405	2550	2726
80°	1666	1988	2190
85°	932	1528	2001

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4548 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.7	3.9
10°-20°	536.7	10.9
20°-30°	779.0	15.9
30°-40°	895.9	18.3
40°-50°	886.1	18.1
50°-60°	758.3	15.5
60°-70°	535.5	10.9
70°-80°	262.0	5.3
80°-90°	57.8	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°	1508.4	30.8
0°-40°	2404.3	49.0
0°-60°	4048.7	82.6
0°-90°	4904.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4904.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2053	2053	2053	2053	2053	
5°	2046	2044	2038	2023	2028	194
15°	1945	1934	1903	1876	1878	548
25°	1753	1727	1680	1656	1660	807
35°	1496	1459	1412	1404	1413	935
45°	1195	1161	1126	1137	1148	922
55°	874	843	827	849	867	781
65°	545	520	520	559	576	539
75°	231	221	245	261	262	250
85°	30	37	50	60	65	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2052.8	2052.8	2052.8	2052.8	2052.8
2.5°	2055.1	2056.9	2052.8	2037.2	2040.1
5°	2045.8	2044.1	2037.8	2022.9	2027.5
7.5°	2029.5	2026.6	2015.3	1997.5	2000.5
10°	2007.9	2002.1	1985.1	1962.9	1965.3
12.5°	1979.9	1972.0	1948.0	1922.7	1925.1
15°	1944.9	1933.6	1902.9	1876.0	1878.4
17.5°	1904.5	1891.5	1854.3	1825.1	1830.5
20°	1859.0	1841.4	1798.5	1770.5	1775.0
22.5°	1808.8	1786.8	1741.6	1714.3	1717.6
25°	1753.4	1726.7	1680.1	1656.4	1660.4
27.5°	1693.8	1664.4	1616.2	1594.2	1600.7
30°	1630.1	1598.4	1547.5	1531.5	1538.4
32.5°	1564.8	1530.9	1480.5	1469.4	1476.3
35°	1496.0	1459.2	1411.9	1404.1	1413.1
37.5°	1422.5	1387.0	1340.1	1340.8	1349.0
40°	1349.6	1312.9	1269.7	1274.4	1284.5
42.5°	1273.9	1238.3	1198.6	1206.2	1218.0
45°	1195.0	1160.9	1125.7	1136.9	1148.1
47.5°	1115.7	1082.0	1052.9	1066.3	1079.9
50°	1037.0	1004.6	978.7	995.7	1008.2
52.5°	954.4	923.4	904.1	922.1	938.8
55°	874.4	843.0	826.9	849.0	866.8
57.5°	791.7	765.5	751.5	778.2	800.7
60°	707.7	681.9	674.5	709.1	730.7
62.5°	625.6	600.4	596.0	637.3	653.2
65°	544.6	519.9	519.9	558.9	576.0
67.5°	464.4	441.8	450.2	488.2	499.9
70°	382.6	362.4	379.1	411.6	417.8
72.5°	305.9	289.0	312.2	335.7	337.6
75°	231.3	220.7	245.3	261.4	262.2
77.5°	165.6	160.1	183.2	194.7	196.0
80°	107.5	109.9	128.3	137.5	141.3
82.5°	62.7	68.4	82.9	97.1	101.0
85°	30.2	37.0	49.5	60.3	64.8
87.5°	10.4	15.0	20.7	23.0	22.3
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	16.74	18.33	17.11	18.64	18.95	16.86	18.44	17.23	18.76	19.07
	3H	18.20	19.62	18.57	19.95	20.31	18.52	19.95	18.90	20.27	20.63
	4H	18.63	19.96	19.02	20.31	20.69	19.04	20.37	19.43	20.72	21.10
	6H	18.85	20.09	19.26	20.45	20.84	19.35	20.59	19.76	20.95	21.34
	8H	18.88	20.06	19.31	20.45	20.85	19.44	20.62	19.87	21.01	21.41
	12H	18.89	20.02	19.32	20.40	20.83	19.51	20.64	19.94	21.02	21.45
4H	2H	17.25	18.59	17.65	18.94	19.32	17.35	18.69	17.75	19.04	19.41
	3H	18.89	20.01	19.30	20.41	20.81	19.22	20.33	19.63	20.73	21.13
	4H	19.41	20.41	19.84	20.83	21.26	19.85	20.85	20.28	21.26	21.70
	6H	19.71	20.59	20.17	21.03	21.49	20.26	21.14	20.72	21.58	22.03
	8H	19.77	20.58	20.23	21.03	21.49	20.39	21.21	20.85	21.65	22.12
	12H	19.79	20.52	20.27	21.00	21.47	20.49	21.23	20.98	21.70	22.17
8H	4H	19.63	20.45	20.10	20.90	21.36	20.03	20.85	20.49	21.29	21.76
	6H	20.01	20.68	20.50	21.17	21.65	20.53	21.21	21.02	21.69	22.17
	8H	20.10	20.70	20.61	21.21	21.70	20.71	21.32	21.23	21.83	22.32
	12H	20.15	20.68	20.66	21.18	21.74	20.88	21.41	21.39	21.91	22.47
12H	4H	19.65	20.38	20.13	20.86	21.33	20.03	20.76	20.51	21.24	21.71
	6H	20.03	20.64	20.54	21.14	21.63	20.54	21.14	21.05	21.65	22.14
	8H	20.16	20.69	20.67	21.19	21.75	20.77	21.30	21.27	21.79	22.35