

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: P1498495

Luminaire Tested: MAE-G-2-120-2LO-STD-40-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498495
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2LO-STD-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

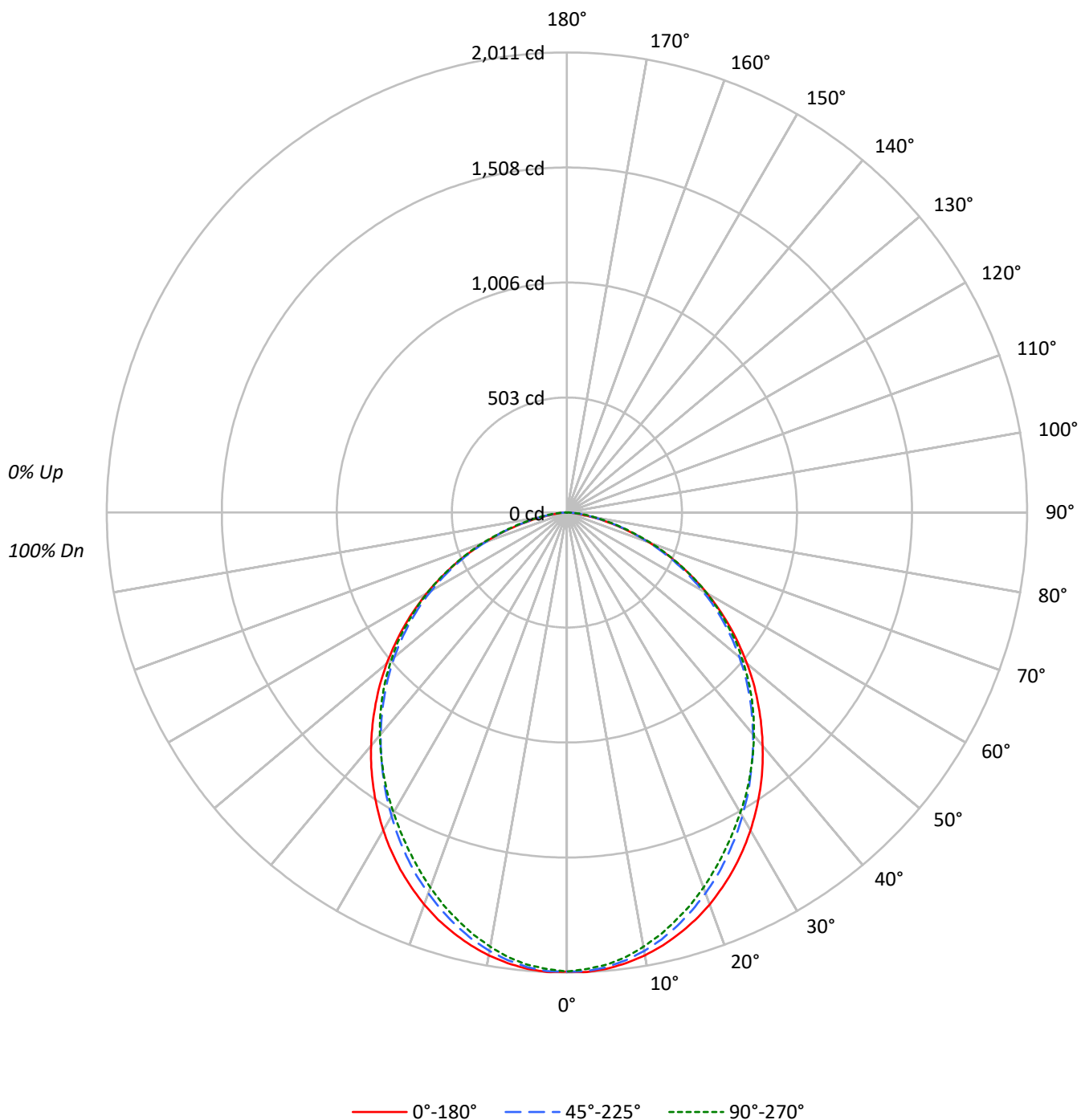
Lumens per Lamp: N/A
Luminaire Lumens: 4844.0 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 59.3
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	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	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5401	5401	5401
5°	5408	5388	5360
10°	5371	5317	5267
15°	5306	5207	5137
20°	5221	5071	4996
25°	5113	4923	4844
30°	4986	4763	4708
35°	4841	4600	4587
40°	4676	4445	4467
45°	4497	4288	4341
50°	4302	4119	4189
55°	4077	3924	4012
60°	3807	3684	3798
65°	3468	3377	3493
70°	3002	2984	3082
75°	2400	2479	2543
80°	1638	1813	1925
85°	858	1288	1692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4497 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.6	3.9
10°-20°	526.5	10.9
20°-30°	767.0	15.8
30°-40°	886.3	18.3
40°-50°	881.6	18.2
50°-60°	757.5	15.6
60°-70°	531.7	11.0
70°-80°	253.6	5.2
80°-90°	51.3	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°	1482.1	30.6
0°-40°	2368.4	48.9
0°-60°	4007.5	82.7
0°-90°	4844.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4844.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2007	2007	2007	2007	2007	
5°	2002	1996	1995	1981	1984	190
15°	1905	1890	1869	1844	1844	537
25°	1722	1698	1658	1631	1632	793
35°	1474	1441	1400	1390	1396	921
45°	1182	1151	1127	1133	1141	911
55°	869	844	836	849	855	776
65°	545	529	530	542	548	539
75°	231	225	238	243	245	248
85°	28	32	42	51	55	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2006.9	2006.9	2006.9	2006.9	2006.9
2.5°	2010.7	2005.5	2006.9	1996.5	1997.0
5°	2002.1	1995.8	1994.8	1981.3	1984.4
7.5°	1986.8	1978.9	1974.1	1958.3	1960.9
10°	1965.6	1955.4	1946.0	1926.3	1927.4
12.5°	1938.4	1926.2	1911.2	1888.0	1889.5
15°	1904.7	1890.3	1869.0	1843.7	1844.1
17.5°	1867.3	1851.0	1822.3	1795.1	1797.5
20°	1823.3	1804.7	1770.9	1742.7	1744.7
22.5°	1774.5	1753.0	1717.1	1688.6	1688.6
25°	1722.1	1697.7	1658.1	1631.3	1631.6
27.5°	1665.4	1638.2	1596.8	1571.8	1573.5
30°	1604.5	1575.4	1533.0	1512.1	1515.0
32.5°	1540.2	1510.0	1468.1	1452.6	1457.9
35°	1473.6	1441.2	1400.3	1390.4	1396.3
37.5°	1404.0	1372.0	1333.3	1328.8	1334.9
40°	1331.0	1299.9	1265.3	1264.6	1271.5
42.5°	1257.0	1226.7	1196.7	1199.9	1207.3
45°	1181.7	1151.3	1126.7	1132.8	1140.7
47.5°	1106.2	1076.1	1056.6	1065.0	1072.1
50°	1027.7	999.6	984.0	994.3	1000.7
52.5°	947.4	921.3	910.8	922.5	931.7
55°	869.0	843.8	836.3	848.7	855.2
57.5°	788.0	766.6	761.7	773.5	780.6
60°	707.3	687.2	684.6	697.7	705.7
62.5°	625.7	607.5	607.9	620.9	627.5
65°	544.6	529.0	530.3	541.9	548.5
67.5°	464.1	450.1	454.7	467.9	471.5
70°	381.5	370.5	379.2	389.6	391.7
72.5°	304.9	295.5	306.6	314.6	315.2
75°	230.8	224.8	238.4	242.9	244.6
77.5°	163.5	162.4	173.2	177.8	179.9
80°	105.7	109.2	117.0	123.3	124.2
82.5°	60.0	64.2	72.1	82.7	86.9
85°	27.8	32.3	41.7	50.7	54.8
87.5°	9.4	12.7	17.6	19.2	18.4
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	16.79	18.37	17.15	18.69	19.00	16.83	18.41	17.20	18.73	19.04
	3H	18.26	19.69	18.64	20.02	20.38	18.37	19.80	18.75	20.12	20.49
	4H	18.70	20.04	19.10	20.38	20.76	18.84	20.18	19.24	20.53	20.91
	6H	18.91	20.15	19.32	20.52	20.91	19.11	20.35	19.52	20.72	21.11
	8H	18.94	20.12	19.37	20.51	20.91	19.18	20.36	19.61	20.75	21.15
	12H	18.94	20.07	19.37	20.45	20.88	19.23	20.36	19.66	20.74	21.17
4H	2H	17.33	18.66	17.72	19.01	19.39	17.36	18.70	17.76	19.05	19.42
	3H	18.98	20.10	19.39	20.49	20.89	19.09	20.21	19.50	20.61	21.01
	4H	19.50	20.50	19.93	20.92	21.35	19.67	20.67	20.10	21.08	21.52
	6H	19.80	20.67	20.25	21.11	21.57	20.03	20.90	20.48	21.34	21.80
	8H	19.84	20.66	20.31	21.10	21.57	20.12	20.94	20.59	21.38	21.85
	12H	19.86	20.59	20.34	21.07	21.54	20.20	20.93	20.68	21.41	21.88
8H	4H	19.70	20.52	20.16	20.96	21.43	19.85	20.67	20.31	21.11	21.58
	6H	20.06	20.73	20.55	21.22	21.70	20.28	20.96	20.78	21.45	21.92
	8H	20.14	20.74	20.65	21.25	21.74	20.42	21.03	20.94	21.54	22.02
	12H	20.18	20.71	20.69	21.20	21.77	20.55	21.08	21.06	21.58	22.14
12H	4H	19.71	20.44	20.19	20.91	21.38	19.85	20.58	20.33	21.06	21.53
	6H	20.07	20.67	20.58	21.18	21.67	20.28	20.89	20.80	21.40	21.88
	8H	20.18	20.72	20.69	21.21	21.77	20.47	21.00	20.98	21.49	22.05