

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: P1498489

Luminaire Tested: MAE-G-2-120-2LO-STD-35-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498489
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-35-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

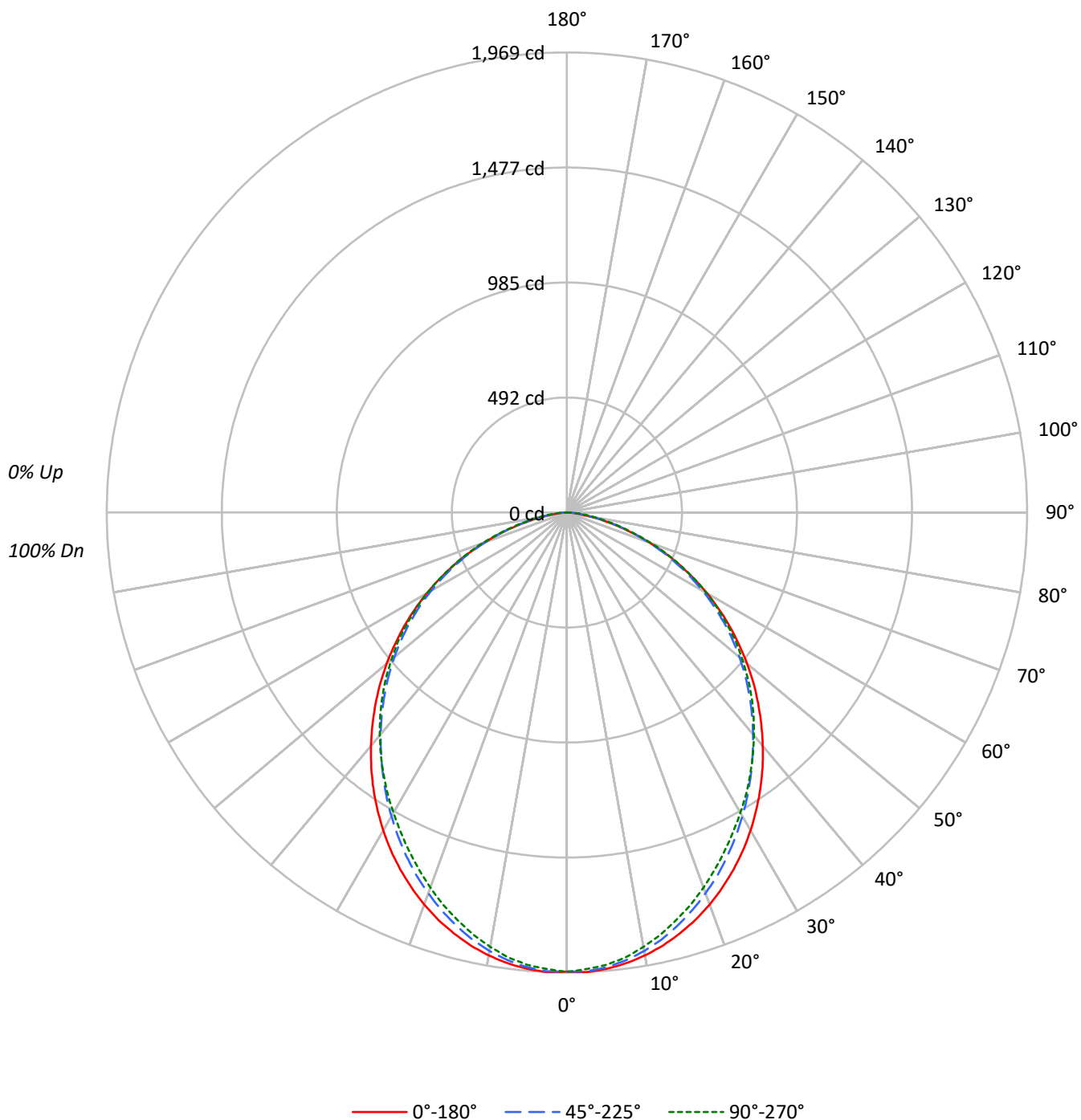
Lumens per Lamp: N/A
Luminaire Lumens: 4744.0 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	5289	5289	5289
5°	5296	5277	5250
10°	5260	5208	5158
15°	5197	5099	5031
20°	5114	4966	4893
25°	5007	4822	4744
30°	4882	4665	4611
35°	4741	4505	4492
40°	4579	4353	4375
45°	4404	4199	4252
50°	4213	4035	4103
55°	3993	3843	3929
60°	3729	3609	3719
65°	3396	3307	3420
70°	2940	2921	3018
75°	2350	2427	2490
80°	1604	1776	1884
85°	840	1263	1655

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4404 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.7	3.9
10°-20°	515.6	10.9
20°-30°	751.2	15.8
30°-40°	868.0	18.3
40°-50°	863.4	18.2
50°-60°	741.8	15.6
60°-70°	520.7	11.0
70°-80°	248.3	5.2
80°-90°	50.2	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°	1451.5	30.6
0°-40°	2319.5	48.9
0°-60°	3924.7	82.7
0°-90°	4744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4744.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1965	1965	1965	1965	1965	
5°	1961	1955	1954	1940	1943	186
15°	1865	1851	1830	1806	1806	526
25°	1686	1663	1624	1598	1598	776
35°	1443	1412	1371	1362	1368	902
45°	1157	1128	1103	1109	1117	893
55°	851	826	819	831	838	760
65°	533	518	519	531	537	528
75°	226	220	233	238	240	243
85°	27	32	41	50	54	40
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1965.4	1965.4	1965.4	1965.4	1965.4
2.5°	1969.1	1964.1	1965.4	1955.3	1955.8
5°	1960.7	1954.6	1953.7	1940.4	1943.4
7.5°	1945.7	1938.0	1933.4	1917.8	1920.4
10°	1925.1	1915.0	1905.9	1886.6	1887.6
12.5°	1898.4	1886.4	1871.8	1849.1	1850.5
15°	1865.4	1851.3	1830.4	1805.7	1806.0
17.5°	1828.7	1812.7	1784.7	1758.0	1760.3
20°	1785.7	1767.4	1734.3	1706.7	1708.7
22.5°	1737.9	1716.8	1681.6	1653.8	1653.7
25°	1686.5	1662.7	1623.9	1597.6	1597.9
27.5°	1631.0	1604.4	1563.8	1539.4	1541.0
30°	1571.3	1542.9	1501.4	1480.9	1483.8
32.5°	1508.5	1478.7	1437.7	1422.6	1427.7
35°	1443.2	1411.5	1371.3	1361.7	1367.5
37.5°	1375.1	1343.7	1305.8	1301.4	1307.3
40°	1303.5	1273.1	1239.2	1238.5	1245.3
42.5°	1231.1	1201.4	1172.1	1175.2	1182.4
45°	1157.3	1127.5	1103.4	1109.3	1117.2
47.5°	1083.4	1053.9	1034.8	1043.0	1050.0
50°	1006.4	979.0	963.8	973.8	980.1
52.5°	927.8	902.3	892.1	903.5	912.5
55°	851.0	826.4	819.1	831.2	837.5
57.5°	771.7	750.7	745.9	757.6	764.4
60°	692.8	673.0	670.5	683.3	691.1
62.5°	612.9	594.9	595.4	608.2	614.5
65°	533.4	518.1	519.4	530.8	537.1
67.5°	454.5	440.8	445.4	458.2	461.7
70°	373.7	362.9	371.3	381.6	383.6
72.5°	298.6	289.3	300.2	308.1	308.7
75°	226.0	220.1	233.4	237.9	239.5
77.5°	160.0	159.1	169.7	174.2	176.3
80°	103.5	106.8	114.6	120.7	121.6
82.5°	58.8	62.9	70.6	81.0	85.1
85°	27.2	31.7	40.9	49.7	53.6
87.5°	9.1	12.5	17.3	18.8	17.9
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	18.30	17.08	18.61	18.93	16.76	18.34	17.12	18.66	18.97
	3H	18.19	19.62	18.57	19.94	20.30	18.30	19.73	18.68	20.05	20.41
	4H	18.62	19.96	19.02	20.31	20.69	18.77	20.11	19.17	20.46	20.84
	6H	18.84	20.08	19.25	20.44	20.83	19.04	20.28	19.45	20.64	21.03
	8H	18.87	20.05	19.29	20.44	20.84	19.11	20.29	19.54	20.68	21.08
	12H	18.87	20.00	19.30	20.38	20.81	19.16	20.29	19.59	20.67	21.10
4H	2H	17.25	18.59	17.65	18.94	19.32	17.29	18.63	17.69	18.97	19.35
	3H	18.91	20.02	19.32	20.42	20.82	19.02	20.13	19.43	20.53	20.93
	4H	19.43	20.43	19.86	20.84	21.28	19.59	20.60	20.02	21.01	21.45
	6H	19.72	20.60	20.18	21.04	21.50	19.95	20.83	20.41	21.27	21.73
	8H	19.77	20.59	20.23	21.03	21.50	20.05	20.87	20.51	21.31	21.78
	12H	19.79	20.52	20.27	20.99	21.46	20.13	20.86	20.61	21.34	21.81
8H	4H	19.63	20.44	20.09	20.89	21.35	19.78	20.59	20.24	21.04	21.50
	6H	19.99	20.66	20.48	21.15	21.63	20.21	20.88	20.70	21.37	21.85
	8H	20.06	20.67	20.57	21.17	21.66	20.35	20.96	20.86	21.46	21.95
	12H	20.11	20.64	20.61	21.13	21.69	20.48	21.01	20.99	21.50	22.07
12H	4H	19.63	20.36	20.11	20.84	21.31	19.78	20.51	20.26	20.98	21.45
	6H	19.99	20.60	20.51	21.11	21.59	20.21	20.82	20.72	21.32	21.81
	8H	20.11	20.64	20.62	21.13	21.70	20.39	20.93	20.90	21.42	21.98