

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: P1498456

Luminaire Tested: MAE-G-2-120-2LO-LO-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498456
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-LO-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

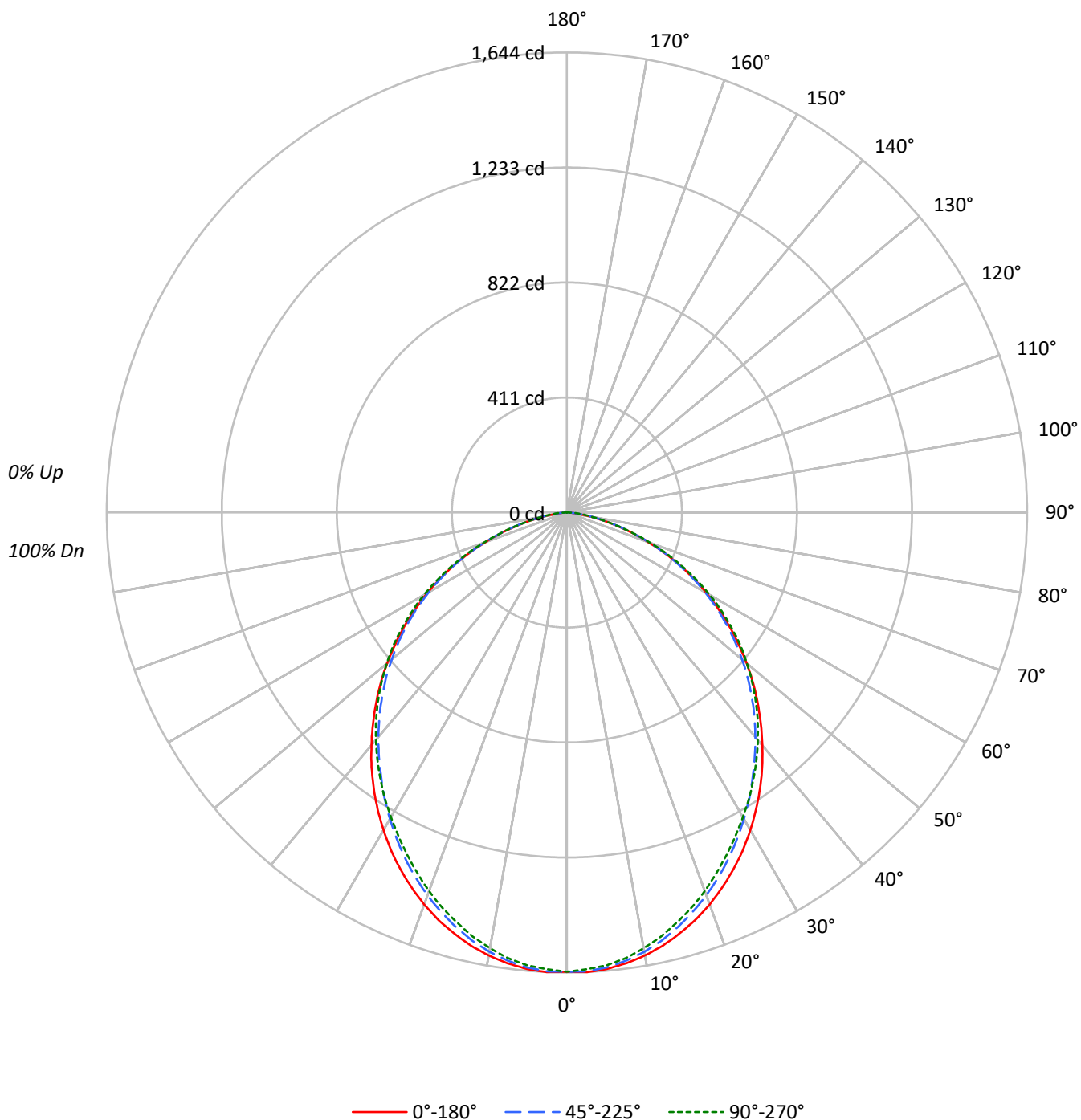
Lumens per Lamp: N/A
Luminaire Lumens: 3988.0 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 49
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	81	98	90	85	80	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	57		67	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	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4417	4417	4417
5°	4423	4408	4388
10°	4392	4355	4320
15°	4338	4271	4227
20°	4268	4168	4122
25°	4179	4054	4008
30°	4072	3929	3906
35°	3953	3801	3817
40°	3816	3679	3727
45°	3669	3555	3632
50°	3508	3421	3515
55°	3324	3262	3369
60°	3101	3066	3179
65°	2821	2806	2890
70°	2437	2456	2501
75°	1943	2000	1993
80°	1319	1404	1427
85°	679	954	1223

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3669 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.3	3.9
10°-20°	431.9	10.8
20°-30°	631.1	15.8
30°-40°	731.3	18.3
40°-50°	729.5	18.3
50°-60°	628.1	15.7
60°-70°	438.8	11.0
70°-80°	204.1	5.1
80°-90°	38.9	1.0
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°	1217.3	30.5
0°-40°	1948.6	48.9
0°-60°	3306.2	82.9
0°-90°	3988.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3988.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1641	1641	1641	1641	1641	
5°	1637	1632	1632	1622	1624	155
15°	1557	1546	1533	1516	1517	439
25°	1407	1390	1365	1348	1350	648
35°	1203	1182	1157	1155	1162	752
45°	964	945	934	945	954	744
55°	708	693	695	711	718	633
65°	443	435	441	449	454	438
75°	187	184	192	192	192	201
85°	22	25	31	37	40	33
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1641.3	1641.3	1641.3	1641.3	1641.3
2.5°	1644.5	1639.4	1641.3	1633.7	1633.5
5°	1637.4	1631.6	1631.9	1622.2	1624.4
7.5°	1624.9	1618.0	1615.7	1604.7	1606.7
10°	1607.4	1598.9	1593.8	1580.0	1581.0
12.5°	1585.0	1575.3	1566.4	1550.6	1552.2
15°	1557.2	1546.2	1533.2	1516.3	1517.2
17.5°	1526.6	1514.5	1496.3	1478.4	1480.9
20°	1490.4	1477.0	1455.6	1436.9	1439.5
22.5°	1450.2	1435.0	1412.5	1393.9	1395.2
25°	1407.3	1390.4	1365.3	1348.3	1349.9
27.5°	1360.7	1341.8	1316.1	1300.8	1303.6
30°	1310.6	1290.8	1264.6	1252.8	1257.0
32.5°	1257.9	1237.5	1212.0	1205.0	1211.3
35°	1203.3	1181.5	1157.0	1154.9	1161.9
37.5°	1146.4	1125.0	1102.6	1105.1	1112.4
40°	1086.3	1066.0	1047.4	1053.0	1061.0
42.5°	1025.8	1006.3	991.5	1000.3	1009.0
45°	964.1	944.6	934.2	945.4	954.5
47.5°	902.6	883.1	876.7	889.8	898.0
50°	838.0	820.4	817.2	831.6	839.6
52.5°	772.7	756.4	756.8	772.5	782.4
55°	708.4	693.0	695.3	711.0	718.1
57.5°	642.1	629.7	633.6	647.7	654.8
60°	576.2	564.7	569.7	583.4	590.6
62.5°	509.5	499.3	505.7	517.5	522.4
65°	443.0	435.1	440.7	448.9	453.8
67.5°	377.4	370.1	376.8	385.0	386.9
70°	309.7	304.7	312.2	317.5	317.9
72.5°	247.3	242.7	250.2	252.9	252.1
75°	186.9	184.3	192.4	191.9	191.7
77.5°	131.9	132.6	137.4	137.3	137.4
80°	85.1	88.0	90.6	92.4	92.1
82.5°	47.9	50.8	54.2	60.9	63.6
85°	22.0	24.9	30.9	37.0	39.6
87.5°	7.5	9.7	13.0	14.0	13.2
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	16.09	17.67	16.45	17.99	18.30	16.28	17.86	16.64	18.17	18.49
	3H	17.55	18.98	17.93	19.31	19.67	17.76	19.18	18.13	19.51	19.87
	4H	17.98	19.32	18.38	19.67	20.04	18.18	19.52	18.58	19.87	20.25
	6H	18.19	19.43	18.60	19.79	20.18	18.40	19.64	18.81	20.01	20.40
	8H	18.22	19.40	18.64	19.79	20.19	18.45	19.63	18.88	20.02	20.42
	12H	18.22	19.35	18.65	19.73	20.16	18.48	19.61	18.91	19.99	20.42
4H	2H	16.64	17.98	17.04	18.33	18.71	16.79	18.13	17.19	18.48	18.86
	3H	18.29	19.40	18.70	19.80	20.20	18.46	19.58	18.87	19.97	20.37
	4H	18.80	19.80	19.23	20.21	20.65	18.98	19.98	19.41	20.40	20.84
	6H	19.09	19.96	19.54	20.40	20.86	19.28	20.16	19.74	20.60	21.06
	8H	19.13	19.94	19.59	20.39	20.85	19.36	20.17	19.82	20.62	21.08
	12H	19.14	19.87	19.63	20.35	20.82	19.42	20.14	19.90	20.62	21.09
8H	4H	18.99	19.80	19.45	20.25	20.71	19.16	19.97	19.62	20.41	20.88
	6H	19.33	20.01	19.83	20.50	20.97	19.52	20.19	20.01	20.68	21.16
	8H	19.41	20.01	19.92	20.52	21.00	19.63	20.23	20.14	20.74	21.23
	12H	19.44	19.97	19.95	20.47	21.03	19.73	20.26	20.24	20.75	21.31
12H	4H	18.99	19.72	19.47	20.20	20.67	19.15	19.88	19.64	20.36	20.83
	6H	19.34	19.94	19.85	20.45	20.93	19.52	20.12	20.03	20.63	21.12
	8H	19.44	19.97	19.95	20.47	21.03	19.67	20.20	20.17	20.69	21.25