

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: P1498713

Luminaire Tested: MAE-G-2-120-3LO-40

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3LO-40
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

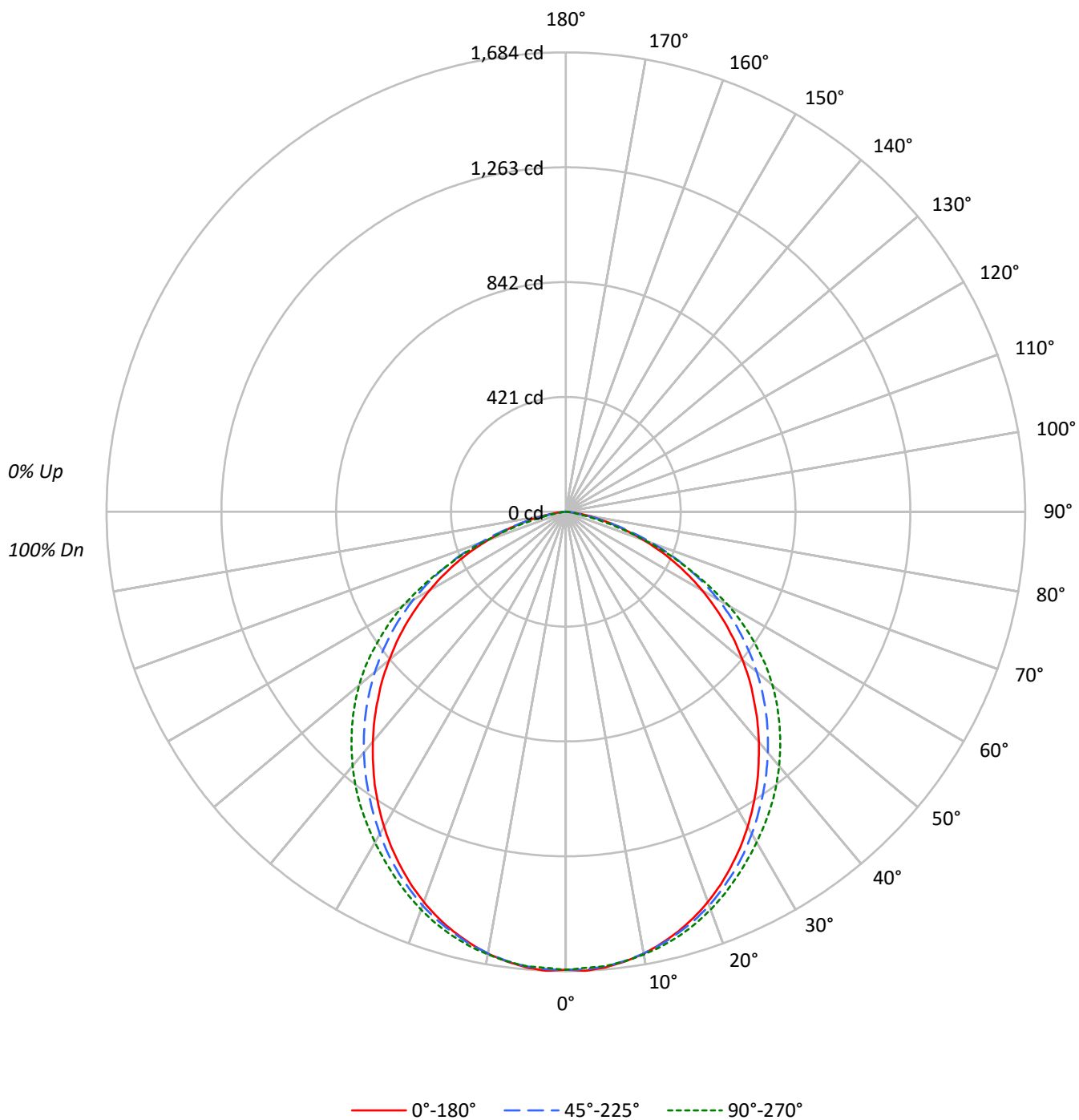
Lumens per Lamp: N/A
Luminaire Lumens: 4255.0 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.7
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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10		0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102		100
1	110	105	102	98	107	103	100	96	99	96	93		95	93	91		92	90	88		86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75		73
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72	68	64		62
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65	59	55		53
5	78	65	56	50	76	64	56	50	62	55	49		60	54	49		58	53	48		46
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53	47	43		41
7	67	53	45	39	65	53	44	39	51	44	38		50	43	38		48	42	38		36
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44	38	34		32
9	58	45	37	31	57	44	36	31	43	36	31		42	36	31		41	35	31		29
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38	32	28		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4518	4518	4518
5°	4528	4518	4516
10°	4494	4492	4503
15°	4437	4451	4483
20°	4359	4399	4445
25°	4258	4326	4394
30°	4143	4237	4348
35°	4013	4141	4315
40°	3867	4047	4272
45°	3709	3947	4217
50°	3538	3825	4142
55°	3347	3677	3983
60°	3106	3474	3717
65°	2805	3168	3183
70°	2394	2660	2474
75°	1881	1941	1522
80°	1227	998	589
85°	587	395	312

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4217 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.6	3.7
10°-20°	450.2	10.6
20°-30°	669.6	15.7
30°-40°	789.0	18.5
40°-50°	800.0	18.8
50°-60°	697.1	16.4
60°-70°	476.8	11.2
70°-80°	191.5	4.5
80°-90°	22.2	0.5
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°	1278.4	30.0
0°-40°	2067.4	48.6
0°-60°	3564.5	83.8
0°-90°	4255.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4255.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1679	1679	1679	1679	1679	
5°	1676	1666	1673	1671	1672	159
15°	1593	1586	1598	1604	1609	449
25°	1434	1435	1457	1468	1480	660
35°	1222	1227	1260	1291	1314	763
45°	975	988	1037	1084	1108	752
55°	714	729	784	833	849	637
65°	441	460	498	502	500	436
75°	181	193	187	160	146	194
85°	19	17	13	11	10	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1678.8	1678.8	1678.8	1678.8	1678.8
2.5°	1684.2	1673.0	1678.8	1677.6	1673.3
5°	1676.1	1666.0	1672.6	1670.7	1671.8
7.5°	1662.9	1653.6	1660.5	1660.2	1662.1
10°	1644.7	1635.3	1643.9	1645.4	1647.8
12.5°	1620.6	1612.8	1623.3	1626.4	1631.0
15°	1592.6	1585.7	1597.7	1604.3	1609.3
17.5°	1560.0	1554.2	1569.7	1576.0	1582.9
20°	1522.3	1518.1	1536.3	1542.2	1552.3
22.5°	1480.5	1478.2	1497.1	1506.0	1517.7
25°	1434.2	1434.7	1457.1	1467.7	1480.0
27.5°	1385.8	1386.5	1412.2	1426.8	1440.1
30°	1333.3	1335.6	1363.6	1381.9	1399.3
32.5°	1277.8	1282.5	1312.7	1337.6	1357.0
35°	1221.5	1226.9	1260.4	1291.4	1313.5
37.5°	1160.6	1169.5	1207.2	1244.1	1266.9
40°	1100.8	1109.7	1152.0	1192.8	1216.1
42.5°	1039.1	1050.4	1095.4	1140.8	1163.3
45°	974.7	987.8	1037.2	1083.8	1108.2
47.5°	912.9	924.6	976.6	1025.2	1050.4
50°	845.0	859.7	913.7	964.6	989.5
52.5°	780.2	793.8	849.3	901.4	923.8
55°	713.5	728.6	783.7	833.0	848.9
57.5°	645.1	663.4	716.6	757.7	772.8
60°	577.2	595.4	645.5	679.3	690.6
62.5°	509.6	529.1	572.9	595.4	595.4
65°	440.6	460.4	497.6	501.5	499.9
67.5°	371.5	391.3	419.6	412.6	408.0
70°	304.3	321.4	338.1	325.2	314.4
72.5°	239.1	255.4	258.2	239.5	225.9
75°	180.9	193.0	186.7	160.3	146.4
77.5°	126.1	133.2	119.9	93.2	81.9
80°	79.2	82.3	64.4	45.4	38.0
82.5°	42.7	43.1	28.0	22.9	21.4
85°	19.0	17.1	12.8	11.2	10.1
87.5°	6.6	5.8	4.6	4.3	3.5
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	16.17	17.75	16.53	18.06	18.38	17.15	18.73	17.51	19.05	19.36
	3H	17.58	19.00	17.95	19.32	19.69	18.35	19.77	18.73	20.10	20.46
	4H	17.97	19.30	18.37	19.65	20.03	18.57	19.90	18.97	20.25	20.63
	6H	18.14	19.38	18.56	19.74	20.13	18.59	19.82	19.00	20.18	20.58
	8H	18.16	19.33	18.58	19.72	20.12	18.56	19.74	18.99	20.13	20.53
	12H	18.15	19.27	18.58	19.66	20.08	18.54	19.66	18.97	20.04	20.47
4H	2H	16.84	18.17	17.24	18.52	18.90	17.63	18.96	18.03	19.31	19.69
	3H	18.41	19.51	18.82	19.91	20.31	19.00	20.10	19.41	20.50	20.90
	4H	18.88	19.88	19.31	20.29	20.73	19.27	20.26	19.70	20.68	21.11
	6H	19.12	19.98	19.58	20.43	20.88	19.32	20.18	19.78	20.62	21.08
	8H	19.14	19.95	19.61	20.39	20.86	19.30	20.10	19.76	20.54	21.01
	12H	19.15	19.86	19.63	20.34	20.81	19.28	19.99	19.76	20.47	20.94
8H	4H	19.03	19.83	19.49	20.28	20.74	19.39	20.19	19.85	20.63	21.10
	6H	19.30	19.96	19.80	20.45	20.93	19.45	20.11	19.94	20.60	21.08
	8H	19.34	19.93	19.85	20.44	20.93	19.42	20.02	19.94	20.53	21.01
	12H	19.36	19.88	19.87	20.37	20.93	19.41	19.93	19.92	20.42	20.99
12H	4H	19.01	19.73	19.49	20.21	20.68	19.38	20.09	19.86	20.57	21.04
	6H	19.27	19.87	19.78	20.37	20.86	19.42	20.02	19.94	20.53	21.01
	8H	19.34	19.86	19.85	20.35	20.92	19.42	19.95	19.93	20.44	21.00