

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: P1498200

Luminaire Tested: MAE-G-2-120-1LO-STD-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498200
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-2-120-1LO-STD-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

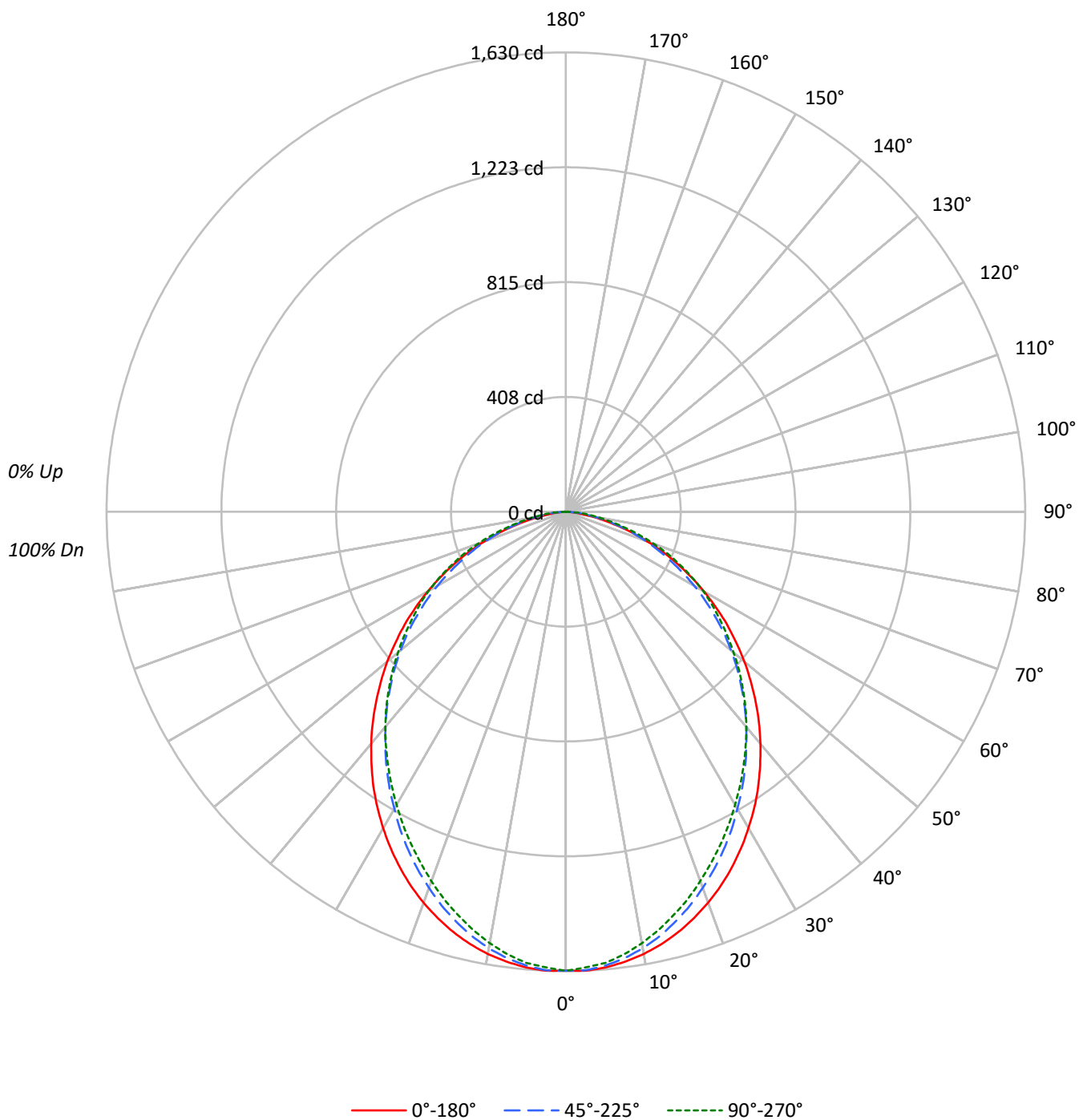
Lumens per Lamp: N/A
Luminaire Lumens: 3866.0 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	98	95	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	84	73	64	58	82	71	63	57	69	62	56		66	60	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°	4382	4382	4382
5°	4384	4366	4340
10°	4353	4298	4247
15°	4301	4193	4125
20°	4228	4066	3994
25°	4137	3931	3861
30°	4028	3783	3732
35°	3911	3643	3613
40°	3775	3498	3501
45°	3624	3355	3380
50°	3463	3205	3254
55°	3276	3034	3129
60°	3047	2836	3029
65°	2779	2593	2858
70°	2417	2356	2612
75°	1937	2052	2246
80°	1348	1649	1878
85°	760	1303	1735

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3624 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	4.0
10°-20°	424.5	11.0
20°-30°	614.3	15.9
30°-40°	704.5	18.2
40°-50°	695.0	18.0
50°-60°	593.7	15.4
60°-70°	421.3	10.9
70°-80°	211.3	5.5
80°-90°	48.6	1.3
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°	1191.5	30.8
0°-40°	1896.0	49.0
0°-60°	3184.8	82.4
0°-90°	3866.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3866.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1628	1628	1628	1628	1628	
5°	1623	1622	1616	1603	1607	154
15°	1544	1533	1505	1480	1481	435
25°	1393	1369	1324	1299	1300	641
35°	1190	1156	1109	1096	1100	744
45°	952	919	882	883	888	735
55°	698	668	647	656	667	623
65°	436	412	407	436	449	432
75°	186	176	197	214	216	201
85°	25	31	42	52	56	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1628.4	1628.4	1628.4	1628.4	1628.4
2.5°	1630.2	1631.7	1628.4	1615.4	1618.1
5°	1623.0	1621.7	1616.1	1603.0	1606.8
7.5°	1610.2	1607.7	1597.6	1581.7	1584.0
10°	1593.2	1588.1	1572.8	1552.7	1554.3
12.5°	1571.1	1563.9	1542.2	1518.6	1520.0
15°	1543.7	1533.4	1505.1	1479.5	1480.6
17.5°	1512.1	1499.7	1465.2	1437.2	1440.3
20°	1476.4	1459.9	1419.9	1392.4	1394.6
22.5°	1436.8	1416.5	1373.8	1346.5	1347.3
25°	1393.2	1368.8	1324.1	1299.0	1300.2
27.5°	1346.3	1319.3	1272.4	1248.7	1251.4
30°	1296.3	1266.8	1217.5	1198.0	1200.9
32.5°	1244.6	1213.2	1164.0	1147.9	1150.9
35°	1190.4	1156.1	1108.9	1095.7	1099.7
37.5°	1132.3	1099.0	1052.0	1044.8	1048.3
40°	1074.6	1040.2	995.9	991.7	996.5
42.5°	1014.5	981.0	939.4	937.5	943.4
45°	952.4	919.4	881.7	882.7	888.1
47.5°	889.6	857.3	824.3	827.0	834.1
50°	827.2	795.8	765.6	771.2	777.3
52.5°	761.4	731.6	707.0	713.6	722.8
55°	698.2	667.9	646.6	656.3	667.0
57.5°	632.6	606.5	587.3	601.5	615.8
60°	566.1	540.7	527.0	548.3	562.8
62.5°	500.7	476.0	466.3	493.9	505.9
65°	436.4	412.4	407.3	436.1	448.8
67.5°	372.1	350.6	353.5	383.3	392.6
70°	307.2	287.7	299.5	326.0	332.0
72.5°	245.7	229.7	248.4	269.4	272.4
75°	186.3	175.9	197.4	213.5	216.0
77.5°	133.5	128.1	149.4	162.2	165.2
80°	87.0	88.8	106.4	117.3	121.2
82.5°	50.9	55.9	70.1	83.1	87.2
85°	24.6	30.6	42.2	52.0	56.2
87.5°	8.4	12.4	17.8	19.8	19.2
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	15.96	17.55	16.33	17.86	18.17	15.89	17.47	16.26	17.79	18.10
	3H	17.43	18.85	17.81	19.18	19.54	17.61	19.03	17.99	19.36	19.72
	4H	17.87	19.21	18.26	19.55	19.93	18.17	19.51	18.57	19.86	20.24
	6H	18.09	19.33	18.51	19.70	20.09	18.54	19.78	18.95	20.15	20.54
	8H	18.13	19.31	18.56	19.70	20.10	18.66	19.84	19.08	20.23	20.63
	12H	18.14	19.27	18.57	19.65	20.08	18.74	19.87	19.17	20.26	20.68
4H	2H	16.45	17.79	16.85	18.14	18.52	16.40	17.74	16.80	18.08	18.46
	3H	18.11	19.23	18.52	19.63	20.03	18.32	19.44	18.73	19.84	20.24
	4H	18.64	19.64	19.07	20.06	20.49	19.01	20.02	19.44	20.43	20.87
	6H	18.95	19.82	19.40	20.27	20.72	19.49	20.37	19.95	20.81	21.27
	8H	19.01	19.83	19.47	20.27	20.74	19.65	20.47	20.11	20.91	21.38
	12H	19.03	19.77	19.51	20.24	20.71	19.78	20.51	20.26	20.99	21.46
8H	4H	18.87	19.69	19.33	20.13	20.60	19.21	20.03	19.67	20.47	20.94
	6H	19.25	19.93	19.75	20.42	20.90	19.78	20.46	20.28	20.95	21.43
	8H	19.35	19.96	19.86	20.47	20.95	20.01	20.61	20.52	21.12	21.61
	12H	19.41	19.94	19.92	20.44	21.00	20.20	20.74	20.71	21.23	21.79
12H	4H	18.89	19.62	19.37	20.10	20.57	19.21	19.95	19.69	20.42	20.89
	6H	19.28	19.89	19.80	20.40	20.89	19.80	20.40	20.31	20.91	21.40
	8H	19.42	19.96	19.93	20.45	21.01	20.06	20.60	20.57	21.09	21.65