

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: P1498194

Luminaire Tested: MAE-G-2-120-1LO-STD-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498194
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-30-90
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

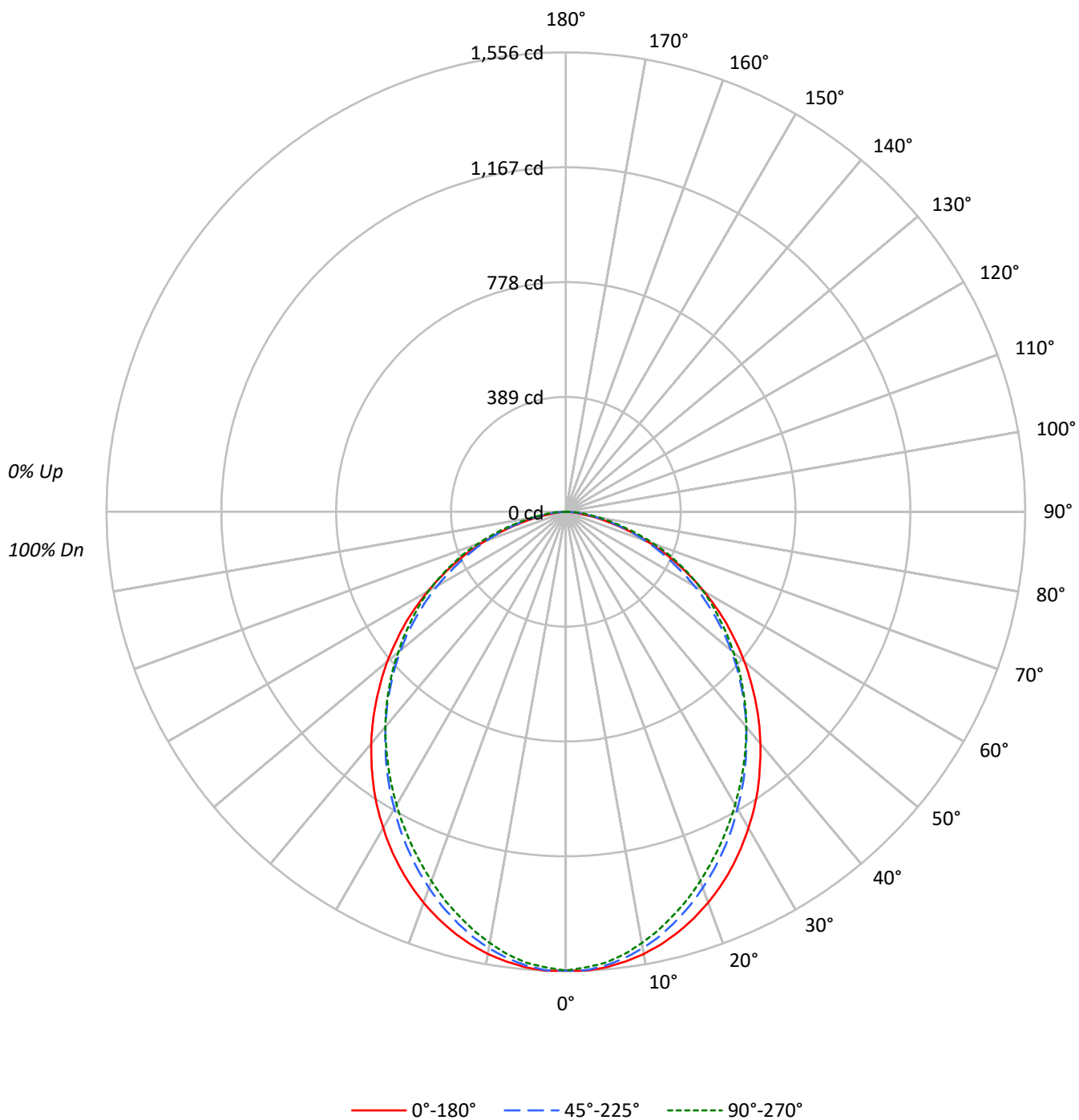
Lumens per Lamp: N/A
Luminaire Lumens: 3690.0 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	4183	4183	4183
5°	4185	4167	4143
10°	4155	4102	4054
15°	4105	4003	3937
20°	4035	3881	3812
25°	3948	3752	3684
30°	3845	3611	3562
35°	3732	3477	3448
40°	3603	3339	3341
45°	3459	3202	3226
50°	3306	3059	3105
55°	3127	2895	2987
60°	2908	2708	2891
65°	2652	2476	2728
70°	2307	2249	2494
75°	1849	1959	2145
80°	1286	1576	1793
85°	726	1241	1655

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3459 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.8	4.0
10°-20°	405.1	11.0
20°-30°	586.3	15.9
30°-40°	672.4	18.2
40°-50°	663.4	18.0
50°-60°	566.7	15.4
60°-70°	402.1	10.9
70°-80°	201.7	5.5
80°-90°	46.5	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°	1137.2	30.8
0°-40°	1809.7	49.0
0°-60°	3039.8	82.4
0°-90°	3690.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3690.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1554	1554	1554	1554	1554	
5°	1549	1548	1543	1530	1534	147
15°	1473	1464	1437	1412	1413	415
25°	1330	1306	1264	1240	1241	612
35°	1136	1104	1058	1046	1050	710
45°	909	878	842	842	848	701
55°	666	638	617	626	637	595
65°	416	394	389	416	428	412
75°	178	168	188	204	206	192
85°	24	29	40	50	54	33
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1554.3	1554.3	1554.3	1554.3	1554.3
2.5°	1556.1	1557.5	1554.3	1541.9	1544.6
5°	1549.1	1548.0	1542.7	1530.1	1533.7
7.5°	1536.9	1534.5	1524.9	1509.6	1511.9
10°	1520.7	1515.8	1501.3	1482.0	1483.5
12.5°	1499.7	1492.7	1471.9	1449.6	1450.8
15°	1473.4	1463.6	1436.7	1412.1	1413.1
17.5°	1443.3	1431.4	1398.5	1371.7	1374.8
20°	1409.2	1393.5	1355.3	1329.1	1331.1
22.5°	1371.3	1352.0	1311.3	1285.2	1285.9
25°	1329.8	1306.5	1263.8	1239.9	1240.9
27.5°	1285.1	1259.3	1214.5	1191.8	1194.4
30°	1237.3	1209.2	1162.1	1143.5	1146.3
32.5°	1188.0	1158.0	1111.0	1095.6	1098.4
35°	1136.1	1103.5	1058.4	1045.7	1049.6
37.5°	1080.7	1049.0	1004.0	997.1	1000.5
40°	1025.7	992.9	950.5	946.5	951.2
42.5°	968.4	936.3	896.7	894.9	900.5
45°	909.0	877.6	841.5	842.5	847.6
47.5°	849.1	818.3	786.7	789.3	796.1
50°	789.6	759.6	730.7	736.1	741.8
52.5°	726.8	698.3	674.7	681.0	689.8
55°	666.5	637.6	617.0	626.4	636.6
57.5°	603.8	578.9	560.6	574.1	587.6
60°	540.4	516.1	503.1	523.3	537.1
62.5°	478.0	454.4	445.0	471.4	482.8
65°	416.5	393.7	388.8	416.3	428.4
67.5°	355.2	334.6	337.4	365.9	374.6
70°	293.2	274.6	285.8	311.2	317.0
72.5°	234.6	219.2	237.1	257.1	260.1
75°	177.8	167.8	188.4	203.8	206.3
77.5°	127.4	122.3	142.6	154.8	157.7
80°	83.0	84.8	101.7	112.0	115.7
82.5°	48.6	53.4	67.0	79.4	83.3
85°	23.5	29.2	40.2	49.6	53.6
87.5°	8.1	11.9	17.0	18.9	18.3
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	15.80	17.38	16.16	17.70	18.01	15.73	17.31	16.09	17.63	17.94
	3H	17.27	18.69	17.64	19.02	19.38	17.45	18.87	17.82	19.20	19.56
	4H	17.70	19.04	18.10	19.39	19.77	18.01	19.35	18.41	19.70	20.08
	6H	17.93	19.17	18.34	19.54	19.93	18.38	19.62	18.79	19.99	20.38
	8H	17.97	19.15	18.39	19.54	19.94	18.50	19.68	18.92	20.07	20.47
	12H	17.98	19.11	18.41	19.49	19.92	18.58	19.71	19.01	20.09	20.52
4H	2H	16.29	17.63	16.69	17.98	18.36	16.23	17.57	16.63	17.92	18.30
	3H	17.95	19.07	18.36	19.46	19.86	18.16	19.28	18.57	19.68	20.08
	4H	18.47	19.48	18.90	19.89	20.33	18.85	19.86	19.28	20.27	20.71
	6H	18.79	19.66	19.24	20.10	20.56	19.33	20.21	19.79	20.65	21.11
	8H	18.85	19.67	19.31	20.11	20.57	19.49	20.31	19.95	20.75	21.22
	12H	18.87	19.61	19.35	20.08	20.55	19.61	20.35	20.10	20.83	21.30
8H	4H	18.71	19.53	19.17	19.97	20.44	19.05	19.87	19.51	20.31	20.78
	6H	19.09	19.77	19.59	20.26	20.74	19.62	20.30	20.12	20.79	21.27
	8H	19.19	19.80	19.70	20.30	20.79	19.84	20.45	20.36	20.96	21.45
	12H	19.25	19.78	19.75	20.27	20.84	20.04	20.58	20.55	21.07	21.63
12H	4H	18.73	19.46	19.21	19.94	20.41	19.05	19.78	19.53	20.26	20.73
	6H	19.12	19.73	19.63	20.24	20.73	19.63	20.24	20.15	20.75	21.24
	8H	19.26	19.80	19.77	20.29	20.85	19.90	20.44	20.41	20.93	21.49