

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: P1498149

Luminaire Tested: MAE-G-2-120-1LO-HI-30

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498149
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-HI-30
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

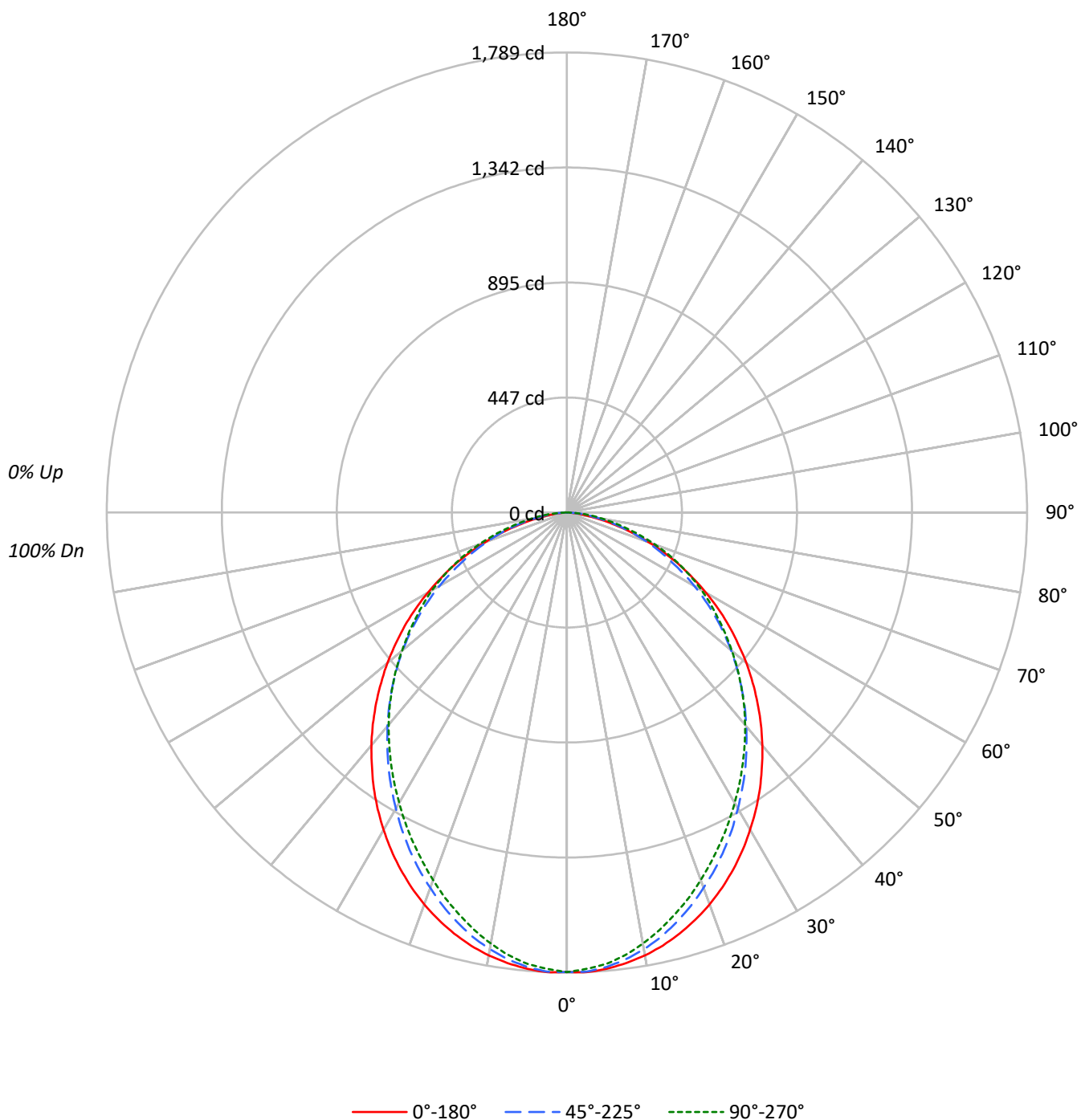
Lumens per Lamp: N/A
Luminaire Lumens: 4226.0 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.1 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 54.7
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
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		83	79	76		80
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	84	72	64	58	82	71	63	57	69	62	56		66	60	56		64
5	77	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°	4810	4810	4810
5°	4812	4791	4761
10°	4779	4714	4652
15°	4722	4594	4508
20°	4644	4449	4356
25°	4545	4296	4201
30°	4428	4130	4053
35°	4300	3972	3915
40°	4153	3811	3786
45°	3990	3652	3648
50°	3815	3486	3504
55°	3611	3297	3365
60°	3362	3083	3260
65°	3070	2823	3100
70°	2673	2579	2871
75°	2146	2273	2525
80°	1499	1863	2162
85°	846	1491	2010

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3990 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.5	4.0
10°-20°	464.9	11.0
20°-30°	671.6	15.9
30°-40°	768.9	18.2
40°-50°	757.3	17.9
50°-60°	646.1	15.3
60°-70°	459.8	10.9
70°-80°	234.4	5.5
80°-90°	55.4	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°	1304.1	30.9
0°-40°	2073.0	49.1
0°-60°	3476.3	82.3
0°-90°	4226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4226.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1787	1787	1787	1787	1787	
5°	1781	1780	1774	1758	1762	169
15°	1695	1683	1649	1618	1618	478
25°	1531	1502	1447	1415	1415	705
35°	1309	1268	1209	1190	1192	818
45°	1048	1008	960	955	958	809
55°	770	733	703	708	717	687
65°	482	453	443	474	487	477
75°	206	194	219	239	243	222
85°	27	34	48	60	65	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1787.3	1787.3	1787.3	1787.3	1787.3
2.5°	1789.3	1791.1	1787.3	1772.6	1776.0
5°	1781.4	1780.2	1773.7	1758.3	1762.5
7.5°	1767.5	1764.5	1752.8	1733.9	1736.5
10°	1749.0	1743.0	1725.0	1701.0	1702.5
12.5°	1724.9	1716.2	1690.4	1662.2	1663.3
15°	1694.9	1682.7	1649.0	1617.7	1618.2
17.5°	1660.6	1645.5	1604.1	1569.8	1572.6
20°	1621.7	1601.9	1553.6	1519.8	1521.0
22.5°	1578.3	1554.0	1502.4	1468.4	1467.9
25°	1530.8	1501.7	1447.0	1415.2	1414.9
27.5°	1479.7	1447.4	1389.7	1359.1	1360.4
30°	1425.0	1389.7	1329.2	1302.9	1304.3
32.5°	1368.5	1330.7	1270.1	1247.3	1248.6
35°	1309.0	1268.0	1209.2	1189.5	1191.9
37.5°	1245.5	1205.3	1146.6	1133.2	1134.9
40°	1182.3	1140.8	1084.9	1074.7	1077.8
42.5°	1116.5	1075.8	1023.0	1015.3	1019.3
45°	1048.5	1008.2	959.7	955.1	958.5
47.5°	979.6	940.2	896.8	894.3	899.5
50°	911.2	872.7	832.7	833.3	837.0
52.5°	838.8	802.3	768.6	770.3	777.7
55°	769.6	732.6	702.8	708.2	717.3
57.5°	697.6	665.1	638.4	648.9	661.9
60°	624.7	593.2	572.8	591.6	605.7
62.5°	552.8	522.4	507.1	533.8	546.4
65°	482.1	452.7	443.4	473.6	486.9
67.5°	411.2	384.8	385.3	417.9	427.9
70°	339.7	315.9	327.8	357.5	364.9
72.5°	271.9	252.4	273.2	297.9	302.4
75°	206.4	193.5	218.6	238.6	242.9
77.5°	148.1	141.4	166.8	183.6	188.3
80°	96.7	98.7	120.2	134.6	139.5
82.5°	56.7	62.6	80.1	95.7	100.7
85°	27.4	34.5	48.3	60.0	65.1
87.5°	9.4	14.1	20.5	22.8	22.2
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	16.30	17.88	16.67	18.20	18.51	16.10	17.69	16.47	18.00	18.32
	3H	17.78	19.20	18.15	19.53	19.89	17.86	19.29	18.24	19.61	19.98
	4H	18.22	19.56	18.62	19.91	20.28	18.46	19.80	18.86	20.15	20.53
	6H	18.45	19.69	18.86	20.06	20.45	18.87	20.11	19.28	20.47	20.87
	8H	18.49	19.67	18.91	20.06	20.46	19.00	20.18	19.43	20.57	20.97
	12H	18.50	19.63	18.93	20.01	20.44	19.10	20.23	19.53	20.61	21.04
4H	2H	16.78	18.12	17.18	18.47	18.85	16.62	17.96	17.02	18.31	18.69
	3H	18.45	19.57	18.86	19.97	20.37	18.59	19.71	19.00	20.11	20.51
	4H	18.98	19.99	19.41	20.40	20.84	19.32	20.32	19.75	20.74	21.18
	6H	19.30	20.18	19.75	20.62	21.07	19.84	20.72	20.30	21.16	21.62
	8H	19.36	20.18	19.82	20.62	21.09	20.02	20.84	20.48	21.28	21.75
	12H	19.39	20.12	19.87	20.60	21.07	20.16	20.90	20.64	21.37	21.84
8H	4H	19.22	20.04	19.68	20.48	20.95	19.52	20.34	19.99	20.79	21.25
	6H	19.61	20.29	20.11	20.78	21.26	20.15	20.83	20.65	21.32	21.80
	8H	19.71	20.32	20.22	20.83	21.32	20.39	21.00	20.91	21.51	22.00
	12H	19.77	20.31	20.28	20.80	21.36	20.61	21.15	21.12	21.64	22.20
12H	4H	19.24	19.98	19.72	20.45	20.92	19.53	20.26	20.01	20.74	21.21
	6H	19.65	20.26	20.16	20.77	21.25	20.16	20.77	20.68	21.28	21.77
	8H	19.79	20.33	20.30	20.82	21.38	20.46	21.00	20.97	21.49	22.05