

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: P1498113

Luminaire Tested: MAE-G-2-120-1HI-STD-40

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498113
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-2-120-1HI-STD-40
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

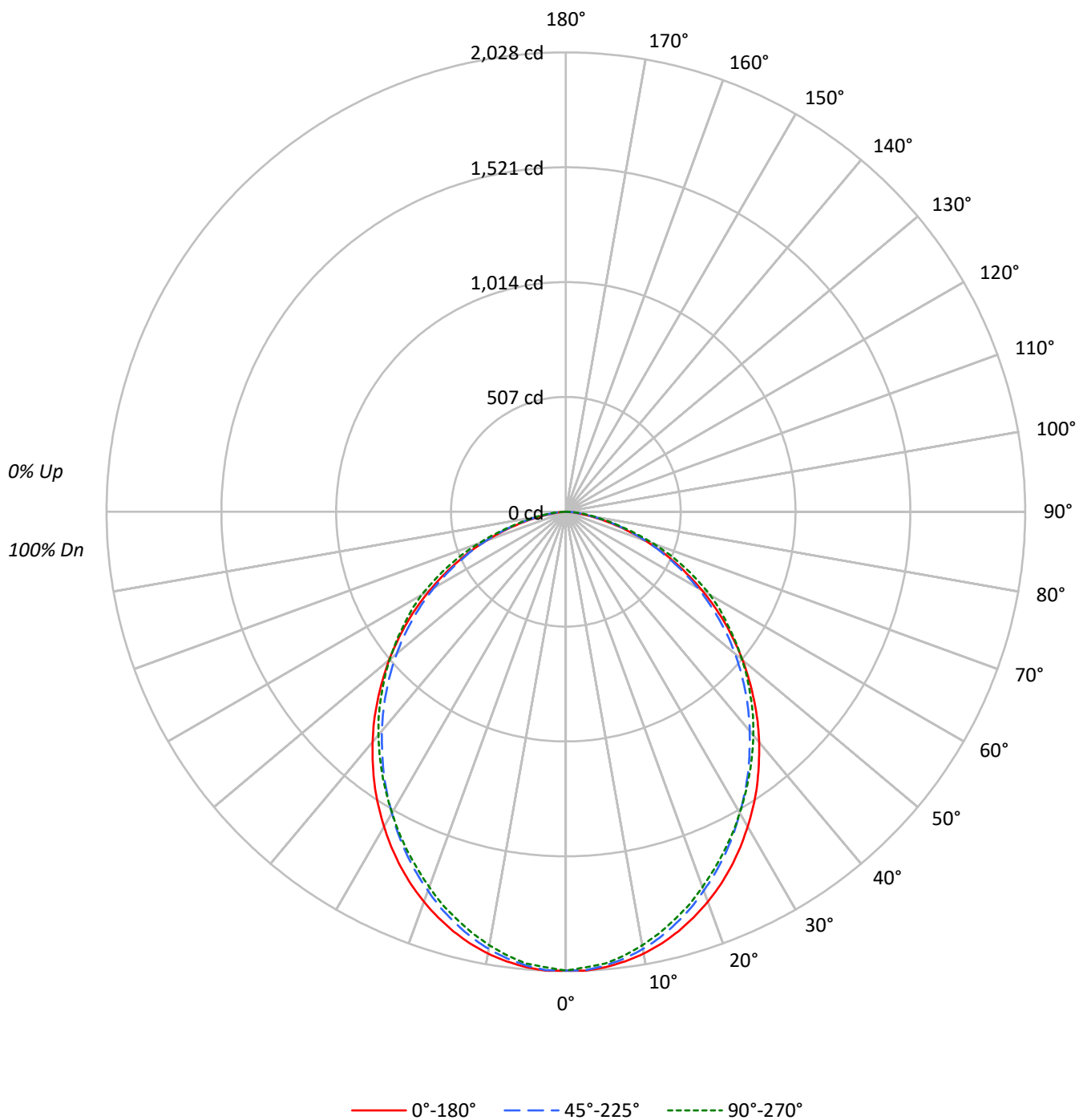
Lumens per Lamp: N/A
Luminaire Lumens: 4860.0 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 57.4
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	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	84	79	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	56		66	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	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°	5450	5450	5450
5°	5451	5431	5407
10°	5412	5356	5310
15°	5343	5241	5187
20°	5247	5099	5050
25°	5130	4945	4910
30°	4988	4772	4771
35°	4838	4609	4643
40°	4664	4437	4523
45°	4471	4266	4389
50°	4266	4083	4250
55°	4027	3868	4100
60°	3734	3620	3962
65°	3395	3296	3665
70°	2944	2951	3238
75°	2347	2491	2614
80°	1618	1895	2030
85°	905	1426	1837

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4471 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.2	3.9
10°-20°	530.7	10.9
20°-30°	771.9	15.9
30°-40°	889.4	18.3
40°-50°	881.3	18.1
50°-60°	755.2	15.5
60°-70°	531.6	10.9
70°-80°	255.3	5.3
80°-90°	54.4	1.1
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°	1492.7	30.7
0°-40°	2382.2	49.0
0°-60°	4018.7	82.7
0°-90°	4860.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4860.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2025	2025	2025	2025	2025	
5°	2018	2016	2011	1997	2002	191
15°	1918	1908	1881	1858	1862	540
25°	1728	1704	1665	1648	1654	795
35°	1473	1441	1403	1402	1413	920
45°	1175	1146	1121	1139	1153	906
55°	858	832	824	853	874	766
65°	533	513	518	558	576	528
75°	226	217	240	252	251	244
85°	29	35	46	56	60	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2025.2	2025.2	2025.2	2025.2	2025.2
2.5°	2027.5	2029.1	2025.2	2010.4	2012.7
5°	2018.1	2016.4	2010.7	1997.2	2001.6
7.5°	2001.9	1999.3	1989.0	1973.2	1976.2
10°	1980.5	1975.3	1960.1	1940.6	1943.2
12.5°	1952.6	1945.8	1924.6	1902.7	1905.7
15°	1917.8	1907.9	1881.1	1858.5	1861.7
17.5°	1877.8	1866.6	1834.5	1810.1	1816.5
20°	1832.4	1817.3	1780.5	1757.7	1763.5
22.5°	1782.5	1763.4	1725.1	1703.4	1708.4
25°	1727.7	1704.3	1665.4	1647.7	1653.5
27.5°	1668.4	1642.8	1603.2	1587.4	1595.9
30°	1605.3	1577.8	1535.8	1526.3	1535.5
32.5°	1540.6	1511.5	1470.2	1465.7	1474.9
35°	1472.6	1440.8	1403.0	1401.9	1413.3
37.5°	1399.8	1369.4	1332.3	1340.0	1350.9
40°	1327.8	1296.3	1263.0	1274.8	1287.7
42.5°	1253.0	1222.8	1192.9	1207.6	1222.5
45°	1174.9	1146.4	1120.9	1139.0	1153.4
47.5°	1096.6	1068.3	1048.7	1069.1	1085.9
50°	1018.9	992.0	975.2	999.1	1015.2
52.5°	937.6	911.8	901.2	926.2	946.1
55°	858.4	832.2	824.5	853.2	873.9
57.5°	776.8	755.9	749.4	782.1	807.6
60°	693.8	673.0	672.7	712.6	736.2
62.5°	613.0	592.5	594.0	639.4	655.7
65°	533.2	512.9	517.6	557.9	575.6
67.5°	454.6	435.6	447.5	485.3	496.7
70°	374.2	357.5	375.1	406.5	411.5
72.5°	298.9	284.6	307.4	328.2	328.8
75°	225.7	217.1	239.6	252.4	251.4
77.5°	161.4	156.9	177.1	185.0	184.3
80°	104.4	106.9	122.3	128.1	131.0
82.5°	60.8	65.9	77.9	90.1	93.2
85°	29.3	35.4	46.2	55.7	59.5
87.5°	10.2	14.3	19.2	21.3	20.7
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	16.68	18.26	17.04	18.57	18.89	16.93	18.51	17.30	18.83	19.14
	3H	18.12	19.55	18.50	19.87	20.23	18.55	19.98	18.93	20.30	20.66
	4H	18.55	19.88	18.95	20.23	20.61	19.03	20.37	19.43	20.72	21.09
	6H	18.76	20.00	19.17	20.37	20.76	19.30	20.54	19.71	20.91	21.30
	8H	18.80	19.98	19.22	20.37	20.77	19.38	20.56	19.81	20.95	21.35
	12H	18.80	19.93	19.23	20.31	20.74	19.43	20.56	19.86	20.95	21.37
4H	2H	17.20	18.54	17.60	18.89	19.26	17.41	18.75	17.81	19.09	19.47
	3H	18.83	19.94	19.24	20.34	20.74	19.23	20.34	19.64	20.74	21.14
	4H	19.34	20.34	19.77	20.76	21.19	19.82	20.82	20.25	21.24	21.68
	6H	19.63	20.51	20.09	20.95	21.41	20.19	21.06	20.65	21.51	21.96
	8H	19.69	20.50	20.15	20.95	21.41	20.30	21.12	20.76	21.56	22.03
	12H	19.71	20.44	20.19	20.92	21.39	20.39	21.12	20.87	21.60	22.07
8H	4H	19.56	20.37	20.02	20.82	21.28	20.00	20.81	20.46	21.26	21.72
	6H	19.92	20.59	20.42	21.08	21.56	20.44	21.12	20.94	21.61	22.08
	8H	20.01	20.61	20.52	21.12	21.60	20.60	21.21	21.11	21.72	22.20
	12H	20.06	20.59	20.56	21.08	21.64	20.75	21.28	21.26	21.77	22.33
12H	4H	19.57	20.30	20.05	20.78	21.25	19.99	20.72	20.48	21.20	21.67
	6H	19.94	20.54	20.45	21.05	21.54	20.45	21.05	20.96	21.56	22.05
	8H	20.06	20.60	20.57	21.09	21.65	20.65	21.18	21.16	21.67	22.24