

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: P1498563

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2STD-LO-35
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

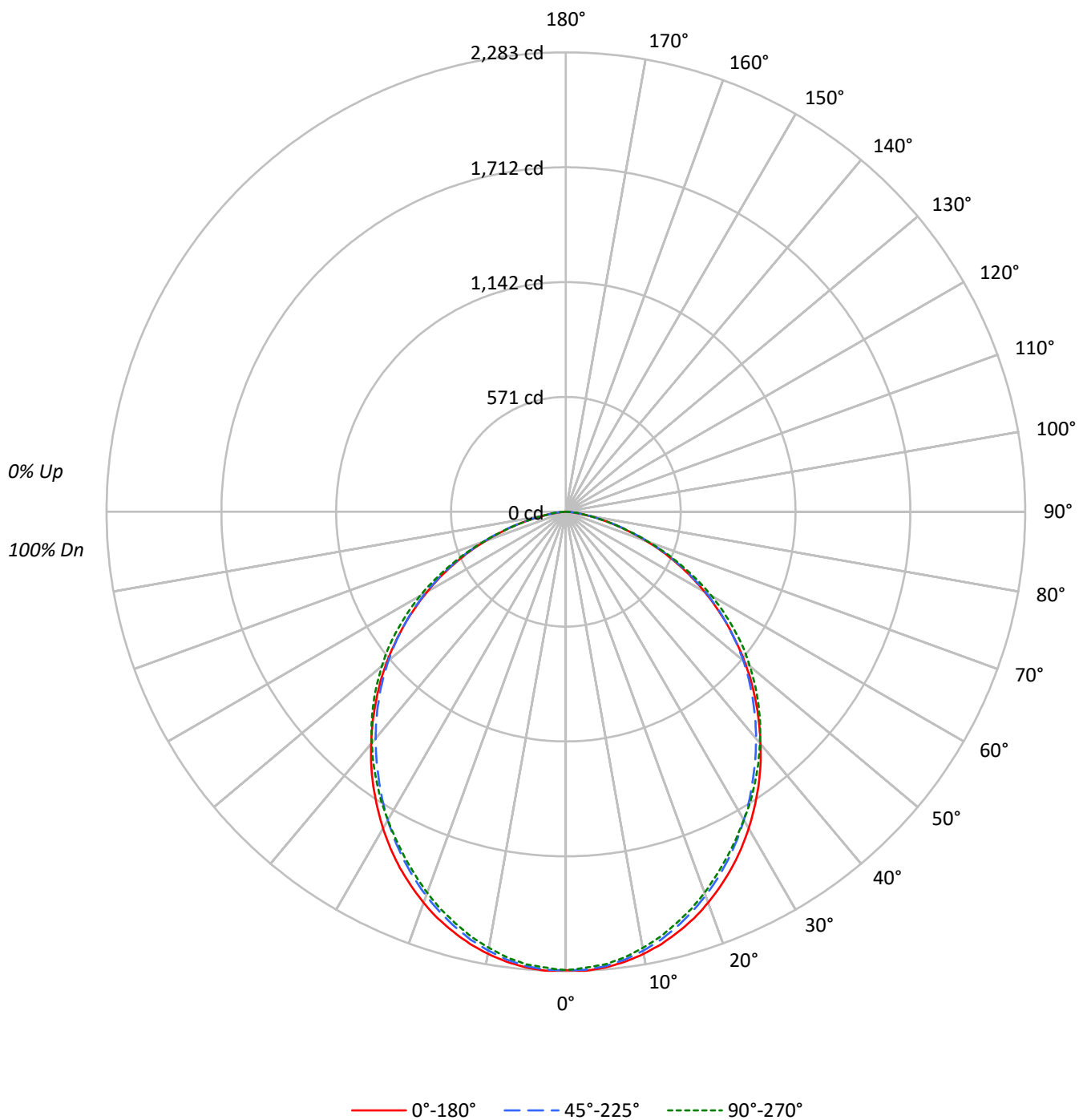
Lumens per Lamp: N/A
Luminaire Lumens: 5571.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 59.3
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			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	101	98	107	103	99	96	99	96	93		95	92	90		91	89	88	86
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72	67	64	62
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64	59	55	53
5	78	65	56	50	75	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	45	39	51	44	38		50	43	38		48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6131	6131	6131
5°	6140	6121	6096
10°	6096	6053	6014
15°	6021	5946	5900
20°	5922	5814	5770
25°	5796	5664	5625
30°	5647	5500	5496
35°	5479	5327	5385
40°	5287	5166	5272
45°	5081	4999	5152
50°	4858	4818	4996
55°	4599	4600	4792
60°	4289	4326	4508
65°	3896	3954	4055
70°	3359	3431	3445
75°	2672	2743	2651
80°	1801	1847	1787
85°	914	1186	1485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5152 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	3.8
10°-20°	601.3	10.8
20°-30°	881.0	15.8
30°-40°	1023.8	18.4
40°-50°	1024.0	18.4
50°-60°	883.3	15.9
60°-70°	614.5	11.0
70°-80°	278.9	5.0
80°-90°	50.0	0.9
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°	1696.7	30.5
0°-40°	2720.4	48.8
0°-60°	4627.7	83.1
0°-90°	5571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2278	2278	2278	2278	2278	
5°	2273	2264	2266	2254	2257	216
15°	2161	2147	2134	2116	2118	609
25°	1952	1933	1908	1890	1894	898
35°	1668	1644	1622	1626	1639	1042
45°	1335	1315	1314	1337	1354	1030
55°	980	966	980	1009	1022	875
65°	612	607	621	631	637	605
75°	257	256	264	258	255	277
85°	30	33	38	45	48	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2278.3	2278.3	2278.3	2278.3	2278.3
2.5°	2283.1	2274.8	2278.3	2269.4	2268.0
5°	2273.0	2264.2	2266.1	2254.3	2256.9
7.5°	2255.5	2245.6	2244.6	2231.6	2234.2
10°	2231.1	2219.3	2215.2	2199.4	2201.0
12.5°	2199.9	2187.0	2179.1	2161.1	2163.9
15°	2161.1	2146.9	2134.4	2116.1	2117.9
17.5°	2118.5	2103.5	2085.0	2065.9	2070.2
20°	2067.8	2051.8	2030.2	2010.1	2015.0
22.5°	2011.7	1993.8	1971.6	1952.1	1955.4
25°	1952.1	1932.6	1907.5	1890.4	1894.4
27.5°	1887.1	1865.5	1840.5	1825.8	1831.9
30°	1817.3	1794.9	1770.0	1760.6	1768.7
32.5°	1743.8	1721.2	1697.4	1695.3	1706.9
35°	1667.9	1643.8	1621.7	1626.5	1639.3
37.5°	1589.0	1565.5	1546.9	1558.2	1571.7
40°	1505.1	1483.8	1470.6	1486.6	1500.7
42.5°	1421.1	1400.7	1393.0	1413.8	1429.1
45°	1335.2	1315.3	1313.7	1337.4	1353.8
47.5°	1250.3	1229.7	1233.6	1260.1	1274.8
50°	1160.3	1142.7	1150.8	1178.7	1193.4
52.5°	1070.0	1053.8	1066.3	1096.0	1113.1
55°	980.2	965.8	980.4	1009.4	1021.5
57.5°	888.3	877.8	893.7	919.0	930.7
60°	796.9	787.3	803.8	826.9	837.6
62.5°	704.3	696.6	713.3	731.4	737.6
65°	611.8	607.2	621.0	630.7	636.8
67.5°	521.1	516.4	529.5	537.5	539.0
70°	426.9	425.3	436.1	439.3	437.9
72.5°	340.7	338.3	346.7	345.4	342.3
75°	257.0	256.4	263.8	257.5	255.0
77.5°	180.9	183.7	185.2	179.8	177.8
80°	116.2	120.6	119.2	117.2	115.3
82.5°	65.0	68.2	68.9	75.7	78.4
85°	29.6	32.6	38.4	45.4	48.1
87.5°	10.0	12.5	16.1	17.1	16.2
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	17.23	18.81	17.59	19.12	19.44	17.55	19.13	17.91	19.44	19.76
	3H	18.68	20.11	19.06	20.44	20.80	18.97	20.40	19.35	20.73	21.09
	4H	19.11	20.44	19.50	20.79	21.17	19.36	20.70	19.76	21.05	21.42
	6H	19.31	20.54	19.72	20.91	21.30	19.54	20.77	19.95	21.14	21.53
	8H	19.33	20.51	19.76	20.90	21.30	19.57	20.75	20.00	21.14	21.54
	12H	19.33	20.46	19.76	20.84	21.27	19.59	20.72	20.02	21.10	21.53
4H	2H	17.80	19.13	18.20	19.48	19.86	18.06	19.39	18.46	19.74	20.12
	3H	19.43	20.54	19.84	20.94	21.34	19.67	20.78	20.08	21.18	21.58
	4H	19.94	20.94	20.37	21.35	21.79	20.14	21.14	20.57	21.55	21.99
	6H	20.22	21.09	20.67	21.53	21.99	20.39	21.26	20.85	21.70	22.16
	8H	20.26	21.07	20.72	21.51	21.98	20.44	21.26	20.91	21.70	22.16
	12H	20.27	20.99	20.75	21.47	21.94	20.48	21.21	20.96	21.69	22.16
8H	4H	20.12	20.93	20.58	21.37	21.84	20.30	21.12	20.77	21.56	22.03
	6H	20.45	21.12	20.95	21.61	22.09	20.61	21.28	21.10	21.77	22.24
	8H	20.52	21.12	21.03	21.62	22.11	20.69	21.29	21.20	21.80	22.28
	12H	20.55	21.08	21.06	21.57	22.13	20.76	21.29	21.27	21.78	22.34
12H	4H	20.11	20.84	20.60	21.32	21.79	20.30	21.03	20.78	21.50	21.97
	6H	20.45	21.05	20.96	21.56	22.04	20.60	21.20	21.11	21.71	22.20
	8H	20.55	21.07	21.05	21.57	22.13	20.72	21.25	21.22	21.74	22.30