

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: P1498251

Luminaire Tested: MAE-G-2-120-1STD-HI-35

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498251
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-2-120-1STD-HI-35
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

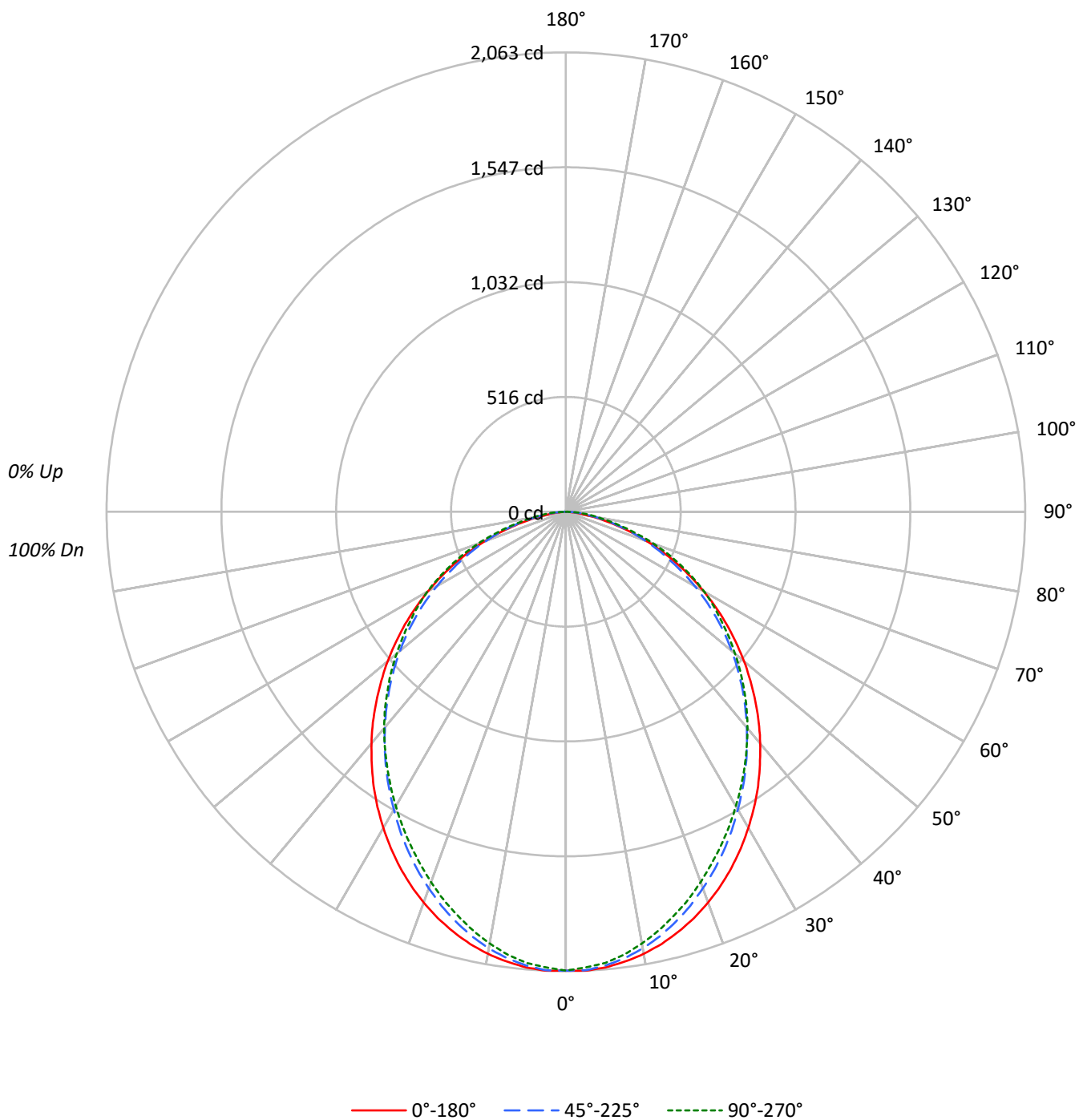
Lumens per Lamp: N/A
Luminaire Lumens: 4901.0 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 59.9
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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56		66	60	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	39		50	43	38		48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45	39	34	32
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38	32	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5545	5545	5545
5°	5548	5525	5494
10°	5508	5440	5379
15°	5441	5311	5229
20°	5348	5153	5068
25°	5232	4984	4904
30°	5093	4799	4744
35°	4944	4623	4597
40°	4771	4441	4459
45°	4580	4262	4309
50°	4375	4073	4153
55°	4137	3855	3995
60°	3846	3605	3866
65°	3506	3294	3636
70°	3048	2986	3304
75°	2439	2586	2812
80°	1695	2061	2325
85°	951	1615	2143

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4580 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.3	3.9
10°-20°	537.6	11.0
20°-30°	778.7	15.9
30°-40°	893.8	18.2
40°-50°	882.4	18.0
50°-60°	754.2	15.4
60°-70°	534.4	10.9
70°-80°	266.1	5.4
80°-90°	60.5	1.2
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°	1509.6	30.8
0°-40°	2403.4	49.0
0°-60°	4040.0	82.4
0°-90°	4901.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4901.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2061	2061	2061	2061	2061	
5°	2054	2052	2045	2029	2034	195
15°	1953	1940	1906	1875	1877	550
25°	1762	1732	1679	1649	1652	811
35°	1505	1464	1407	1393	1399	940
45°	1204	1164	1120	1124	1132	928
55°	882	846	822	837	852	787
65°	551	522	517	554	571	545
75°	235	222	249	268	270	253
85°	31	38	52	64	69	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2060.6	2060.6	2060.6	2060.6	2060.6
2.5°	2062.9	2064.8	2060.6	2044.4	2047.7
5°	2053.7	2052.1	2045.2	2029.0	2033.8
7.5°	2037.4	2034.3	2022.0	2002.5	2005.5
10°	2015.9	2009.6	1991.0	1966.4	1968.5
12.5°	1987.9	1979.1	1952.6	1924.1	1926.1
15°	1953.0	1940.5	1906.3	1875.3	1877.0
17.5°	1912.9	1898.0	1856.2	1822.5	1827.0
20°	1867.6	1847.7	1799.3	1766.5	1769.7
22.5°	1817.4	1792.8	1741.3	1708.9	1710.5
25°	1762.1	1732.4	1678.7	1649.3	1651.5
27.5°	1702.7	1669.8	1613.7	1586.0	1590.3
30°	1639.1	1603.6	1544.4	1522.3	1526.9
32.5°	1573.8	1535.6	1476.8	1459.1	1463.8
35°	1505.0	1463.5	1407.4	1393.1	1399.4
37.5°	1431.4	1391.1	1335.3	1329.0	1334.5
40°	1358.3	1316.8	1264.3	1262.0	1269.3
42.5°	1282.4	1241.8	1193.0	1193.5	1202.3
45°	1203.5	1164.0	1119.9	1124.1	1132.2
47.5°	1124.0	1085.2	1047.0	1053.5	1063.9
50°	1045.1	1007.4	972.8	982.8	991.9
52.5°	961.9	926.1	898.4	909.5	922.8
55°	881.8	845.5	821.6	836.9	851.6
57.5°	798.8	767.8	746.5	767.0	786.3
60°	714.6	684.3	669.9	699.0	718.3
62.5°	631.9	602.5	592.5	629.3	644.7
65°	550.6	521.9	517.3	554.5	571.0
67.5°	469.5	443.6	448.7	486.5	498.2
70°	387.4	364.1	379.5	412.7	419.9
72.5°	309.8	290.5	314.1	339.7	343.1
75°	234.6	222.2	248.7	267.9	270.5
77.5°	168.2	161.7	187.5	202.4	205.5
80°	109.4	111.8	133.0	145.4	150.0
82.5°	64.0	70.2	87.2	102.9	107.7
85°	30.8	38.2	52.3	64.2	69.4
87.5°	10.6	15.5	22.0	24.4	23.7
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	16.77	18.36	17.14	18.67	18.98	16.76	18.34	17.12	18.65	18.97
	3H	18.24	19.66	18.61	19.99	20.35	18.46	19.88	18.84	20.21	20.57
	4H	18.67	20.01	19.07	20.36	20.74	19.01	20.35	19.41	20.70	21.07
	6H	18.90	20.14	19.31	20.50	20.89	19.36	20.60	19.77	20.96	21.36
	8H	18.93	20.12	19.36	20.50	20.90	19.47	20.65	19.89	21.04	21.44
	12H	18.94	20.07	19.37	20.45	20.88	19.55	20.68	19.98	21.06	21.49
4H	2H	17.27	18.61	17.67	18.96	19.34	17.26	18.60	17.66	18.95	19.32
	3H	18.92	20.04	19.33	20.44	20.84	19.17	20.28	19.58	20.68	21.08
	4H	19.44	20.45	19.88	20.86	21.30	19.84	20.84	20.27	21.26	21.70
	6H	19.75	20.63	20.21	21.07	21.53	20.30	21.18	20.75	21.62	22.07
	8H	19.81	20.63	20.27	21.07	21.54	20.45	21.27	20.91	21.71	22.18
	12H	19.84	20.57	20.32	21.05	21.52	20.57	21.30	21.05	21.78	22.25
8H	4H	19.68	20.50	20.14	20.94	21.40	20.03	20.85	20.49	21.29	21.76
	6H	20.06	20.73	20.55	21.22	21.70	20.58	21.26	21.08	21.75	22.23
	8H	20.15	20.76	20.66	21.27	21.75	20.79	21.40	21.31	21.91	22.40
	12H	20.21	20.74	20.72	21.23	21.80	20.98	21.52	21.49	22.01	22.57
12H	4H	19.69	20.43	20.17	20.90	21.37	20.03	20.77	20.51	21.24	21.71
	6H	20.09	20.69	20.60	21.20	21.69	20.59	21.20	21.11	21.71	22.20
	8H	20.22	20.76	20.73	21.25	21.81	20.85	21.39	21.36	21.88	22.44