

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: P1498593

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498593
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-STD-40
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

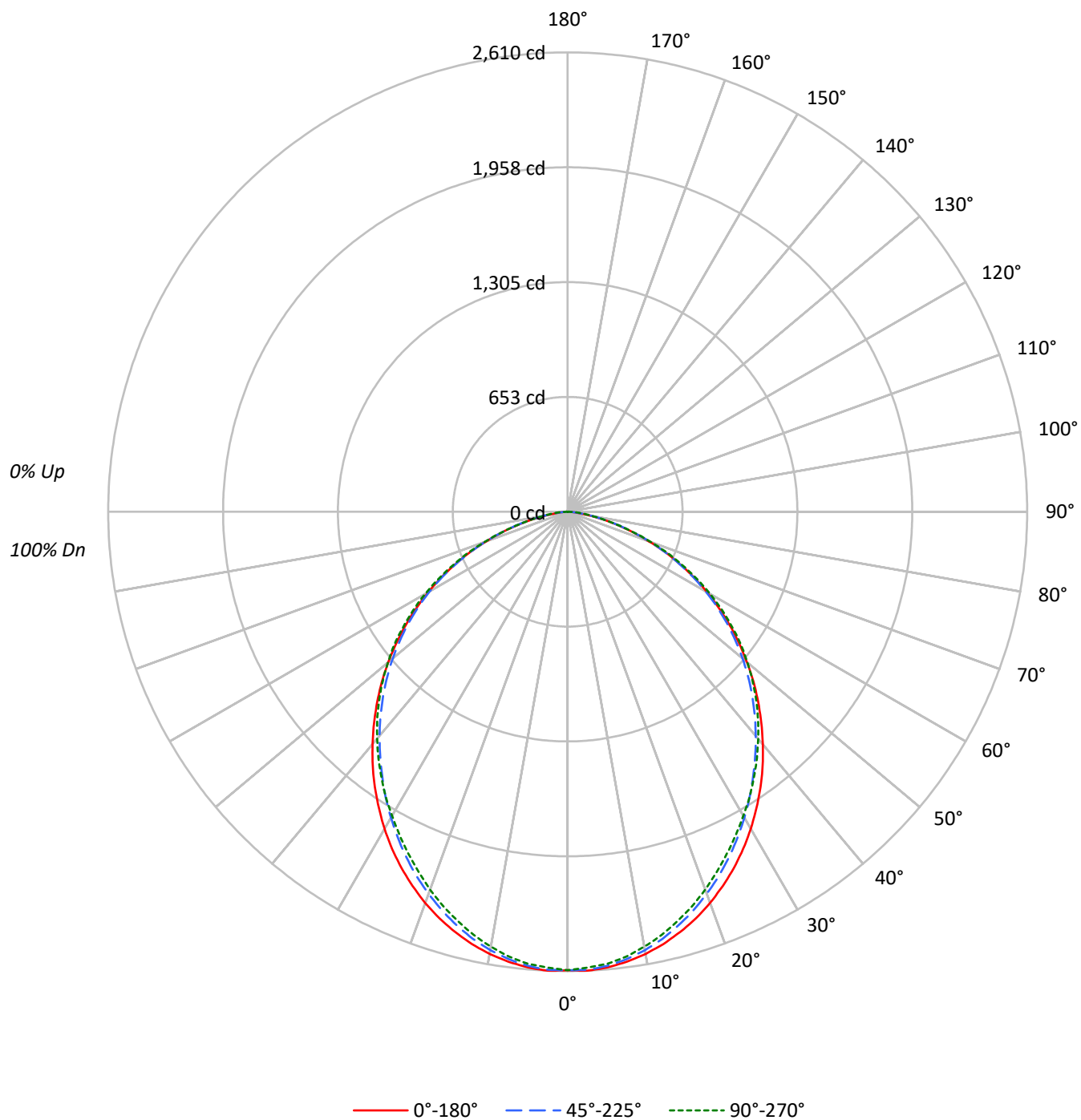
Lumens per Lamp: N/A
Luminaire Lumens: 6329.0 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 69.6
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	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	81	98	90	85	80	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	57		67	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	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7009	7009	7009
5°	7019	6996	6964
10°	6970	6911	6856
15°	6885	6778	6708
20°	6773	6615	6542
25°	6631	6434	6361
30°	6463	6236	6198
35°	6274	6032	6057
40°	6056	5839	5915
45°	5823	5642	5765
50°	5568	5429	5578
55°	5274	5178	5347
60°	4921	4865	5044
65°	4476	4453	4585
70°	3868	3898	3969
75°	3084	3175	3163
80°	2092	2232	2266
85°	1081	1510	1942

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5823 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.9	3.9
10°-20°	685.4	10.8
20°-30°	1001.5	15.8
30°-40°	1160.6	18.3
40°-50°	1157.7	18.3
50°-60°	996.8	15.7
60°-70°	696.4	11.0
70°-80°	323.9	5.1
80°-90°	61.7	1.0
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°	1931.8	30.5
0°-40°	3092.5	48.9
0°-60°	5247.0	82.9
0°-90°	6329.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6329.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2605	2605	2605	2605	2605	
5°	2598	2589	2590	2574	2578	246
15°	2471	2454	2433	2406	2408	697
25°	2233	2207	2167	2140	2142	1028
35°	1910	1875	1836	1833	1844	1194
45°	1530	1499	1483	1500	1515	1180
55°	1124	1100	1104	1128	1140	1004
65°	703	690	699	712	720	696
75°	297	292	305	305	304	319
85°	35	40	49	59	63	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2604.7	2604.7	2604.7	2604.7	2604.7
2.5°	2609.9	2601.7	2604.7	2592.9	2592.4
5°	2598.5	2589.4	2589.9	2574.4	2578.0
7.5°	2578.6	2567.8	2564.2	2546.5	2549.7
10°	2550.9	2537.6	2529.2	2507.5	2509.1
12.5°	2515.4	2500.1	2486.0	2460.8	2463.4
15°	2471.4	2454.0	2433.1	2406.4	2407.8
17.5°	2422.7	2403.5	2374.6	2346.2	2350.2
20°	2365.2	2344.1	2309.9	2280.4	2284.6
22.5°	2301.5	2277.4	2241.6	2212.1	2214.1
25°	2233.4	2206.6	2166.8	2139.8	2142.3
27.5°	2159.5	2129.6	2088.7	2064.2	2068.9
30°	2080.0	2048.5	2007.0	1988.3	1994.8
32.5°	1996.3	1963.8	1923.4	1912.4	1922.4
35°	1909.7	1875.1	1836.2	1832.7	1843.9
37.5°	1819.4	1785.4	1749.9	1753.8	1765.5
40°	1724.0	1691.8	1662.2	1671.0	1683.8
42.5°	1628.0	1596.9	1573.4	1587.5	1601.2
45°	1530.1	1499.0	1482.6	1500.2	1514.9
47.5°	1432.5	1401.4	1391.3	1412.0	1425.3
50°	1330.0	1302.0	1296.8	1319.6	1332.4
52.5°	1226.4	1200.3	1201.0	1225.8	1241.7
55°	1124.2	1099.8	1103.6	1128.3	1139.6
57.5°	1019.1	999.3	1005.5	1027.8	1039.1
60°	914.4	896.1	904.0	925.9	937.2
62.5°	808.6	792.5	802.5	821.4	829.2
65°	703.0	690.4	699.4	712.4	720.1
67.5°	599.0	587.2	597.9	611.0	614.0
70°	491.6	483.7	495.4	503.9	504.4
72.5°	392.6	385.2	397.1	401.4	400.0
75°	296.6	292.4	305.4	304.6	304.2
77.5°	209.4	210.4	218.2	217.9	218.0
80°	135.0	139.7	144.0	146.7	146.2
82.5°	76.0	80.6	86.0	96.7	100.9
85°	35.0	39.5	48.9	58.7	62.9
87.5°	11.8	15.4	20.6	22.2	21.0
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	17.69	19.28	18.06	19.59	19.90	17.88	19.46	18.24	19.78	20.09
	3H	19.16	20.58	19.54	20.91	21.27	19.36	20.79	19.74	21.11	21.47
	4H	19.59	20.92	19.98	21.27	21.65	19.79	21.13	20.19	21.47	21.85
	6H	19.80	21.03	20.21	21.40	21.79	20.01	21.24	20.42	21.61	22.00
	8H	19.82	21.00	20.25	21.39	21.79	20.06	21.24	20.48	21.63	22.03
	12H	19.82	20.95	20.25	21.33	21.76	20.09	21.22	20.52	21.60	22.03
4H	2H	18.25	19.58	18.65	19.93	20.31	18.40	19.74	18.80	20.08	20.46
	3H	19.89	21.00	20.30	21.40	21.80	20.07	21.18	20.48	21.58	21.98
	4H	20.40	21.40	20.84	21.82	22.26	20.59	21.59	21.02	22.00	22.44
	6H	20.69	21.56	21.15	22.00	22.46	20.89	21.76	21.34	22.20	22.66
	8H	20.74	21.55	21.20	21.99	22.46	20.96	21.78	21.43	22.22	22.69
	12H	20.75	21.48	21.23	21.95	22.42	21.02	21.75	21.50	22.22	22.70
8H	4H	20.59	21.41	21.06	21.85	22.32	20.76	21.58	21.22	22.02	22.48
	6H	20.94	21.61	21.43	22.10	22.58	21.12	21.80	21.62	22.29	22.76
	8H	21.01	21.61	21.52	22.12	22.61	21.23	21.84	21.75	22.35	22.83
	12H	21.05	21.58	21.56	22.07	22.63	21.33	21.86	21.84	22.36	22.92
12H	4H	20.60	21.32	21.08	21.80	22.27	20.76	21.49	21.24	21.96	22.43
	6H	20.94	21.54	21.45	22.05	22.54	21.12	21.73	21.63	22.23	22.72
	8H	21.05	21.58	21.56	22.07	22.63	21.27	21.80	21.78	22.29	22.86