

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: P1498533

Luminaire Tested: MAE-G-2-120-2STD-HI-30

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498533
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-HI-30
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

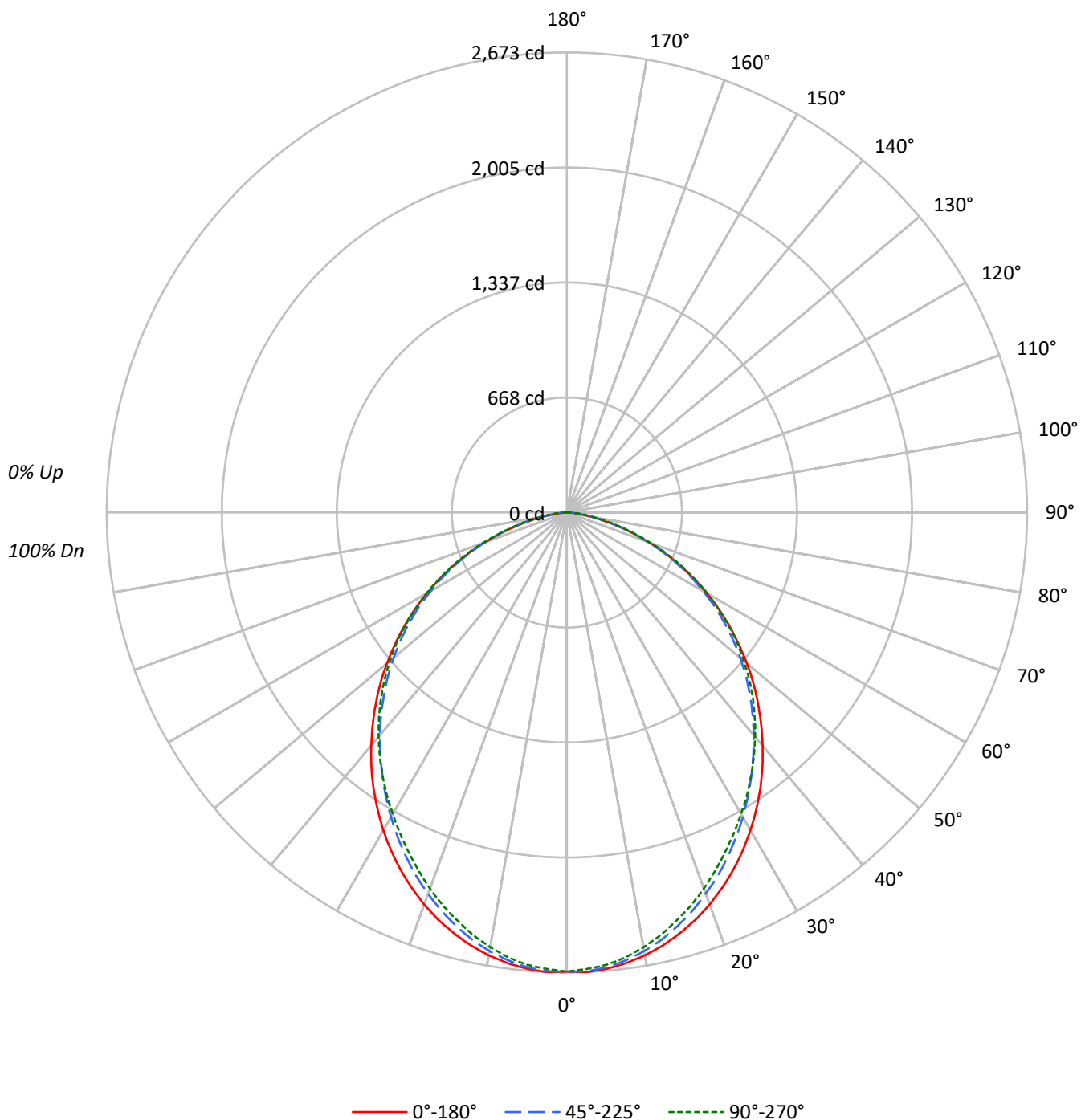
Lumens per Lamp: N/A
Luminaire Lumens: 6452.0 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 77.3
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	98	90	85	79	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	61
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7179	7179	7179
5°	7189	7164	7128
10°	7139	7072	7007
15°	7053	6928	6841
20°	6940	6751	6659
25°	6795	6558	6462
30°	6625	6349	6285
35°	6432	6134	6130
40°	6211	5930	5974
45°	5974	5724	5811
50°	5714	5502	5612
55°	5414	5242	5377
60°	5054	4923	5084
65°	4602	4511	4658
70°	3981	3974	4087
75°	3180	3281	3337
80°	2168	2373	2487
85°	1130	1661	2167

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5974 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.7	3.9
10°-20°	700.5	10.9
20°-30°	1021.4	15.8
30°-40°	1181.3	18.3
40°-50°	1176.1	18.2
50°-60°	1011.1	15.7
60°-70°	708.7	11.0
70°-80°	335.4	5.2
80°-90°	66.7	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°	1972.7	30.6
0°-40°	3154.0	48.9
0°-60°	5341.2	82.8
0°-90°	6452.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6452.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2668	2668	2668	2668	2668	
5°	2661	2653	2652	2635	2639	252
15°	2532	2513	2487	2455	2456	714
25°	2289	2258	2209	2175	2176	1053
35°	1958	1917	1867	1857	1866	1224
45°	1570	1532	1504	1515	1527	1211
55°	1154	1123	1117	1136	1146	1031
65°	723	704	708	723	732	715
75°	306	299	316	320	321	329
85°	37	42	54	65	70	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2667.7	2667.7	2667.7	2667.7	2667.7
2.5°	2672.8	2665.6	2667.7	2654.4	2654.7
5°	2661.3	2652.6	2652.0	2634.7	2638.6
7.5°	2640.9	2630.3	2624.8	2604.7	2608.0
10°	2612.8	2599.2	2588.0	2562.9	2564.4
12.5°	2576.5	2560.5	2542.3	2512.9	2515.1
15°	2531.6	2512.9	2486.7	2454.9	2455.7
17.5°	2481.9	2460.8	2425.3	2391.2	2394.7
20°	2423.4	2399.5	2357.5	2322.3	2325.3
22.5°	2358.3	2330.8	2286.5	2251.0	2251.6
25°	2288.6	2257.8	2208.6	2175.4	2176.4
27.5°	2213.2	2178.7	2127.6	2096.8	2099.9
30°	2132.0	2095.3	2043.2	2017.9	2022.7
32.5°	2046.5	2008.4	1957.0	1939.3	1947.2
35°	1957.9	1917.2	1867.1	1856.9	1865.9
37.5°	1865.4	1825.2	1778.3	1775.4	1784.7
40°	1768.1	1729.4	1688.2	1690.2	1700.5
42.5°	1669.9	1632.2	1597.1	1604.3	1615.5
45°	1569.7	1531.8	1504.0	1515.0	1527.0
47.5°	1469.5	1431.9	1410.6	1424.9	1435.6
50°	1364.8	1330.1	1314.2	1330.7	1340.6
52.5°	1258.4	1226.0	1216.5	1235.1	1248.5
55°	1154.0	1123.1	1117.3	1136.5	1146.0
57.5°	1046.4	1020.4	1017.7	1035.6	1045.6
60°	939.1	914.8	914.8	933.8	944.6
62.5°	830.7	808.8	812.3	830.2	838.6
65°	722.7	704.4	708.4	723.2	731.6
67.5°	615.8	599.2	606.8	623.1	627.3
70°	506.0	493.4	505.1	517.3	519.4
72.5°	404.3	393.2	407.3	416.0	416.2
75°	305.9	299.1	315.6	319.5	321.0
77.5°	216.4	215.7	228.1	232.5	234.4
80°	139.9	144.5	153.1	159.8	160.5
82.5°	79.2	84.5	93.5	106.7	111.8
85°	36.6	42.2	53.8	65.3	70.2
87.5°	12.4	16.6	22.8	24.7	23.6
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	17.78	19.36	18.14	19.68	19.99	17.86	19.45	18.23	19.76	20.08
	3H	19.25	20.67	19.63	21.00	21.36	19.39	20.81	19.76	21.14	21.50
	4H	19.68	21.02	20.08	21.37	21.74	19.84	21.18	20.24	21.53	21.91
	6H	19.89	21.13	20.31	21.50	21.89	20.10	21.33	20.51	21.70	22.09
	8H	19.92	21.10	20.35	21.49	21.89	20.16	21.34	20.59	21.73	22.13
	12H	19.92	21.05	20.35	21.44	21.86	20.20	21.33	20.63	21.71	22.14
4H	2H	18.32	19.66	18.72	20.01	20.38	18.39	19.73	18.79	20.08	20.45
	3H	19.97	21.08	20.38	21.48	21.88	20.10	21.22	20.51	21.61	22.01
	4H	20.49	21.49	20.92	21.91	22.34	20.66	21.66	21.09	22.08	22.51
	6H	20.78	21.65	21.24	22.10	22.55	21.00	21.87	21.46	22.31	22.77
	8H	20.83	21.64	21.29	22.09	22.55	21.09	21.91	21.55	22.35	22.82
	12H	20.84	21.57	21.33	22.05	22.52	21.16	21.89	21.64	22.37	22.84
8H	4H	20.69	21.50	21.15	21.94	22.41	20.84	21.66	21.30	22.10	22.56
	6H	21.04	21.71	21.53	22.20	22.68	21.25	21.92	21.75	22.41	22.89
	8H	21.12	21.72	21.63	22.23	22.71	21.38	21.99	21.90	22.50	22.98
	12H	21.16	21.69	21.66	22.18	22.74	21.50	22.03	22.01	22.53	23.09
12H	4H	20.69	21.42	21.17	21.90	22.37	20.84	21.57	21.32	22.05	22.52
	6H	21.05	21.65	21.56	22.16	22.65	21.25	21.86	21.76	22.36	22.85
	8H	21.16	21.69	21.67	22.18	22.75	21.42	21.96	21.93	22.45	23.01