

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: P1498377

Luminaire Tested: MAE-G-2-120-2HI-LO-40

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498377
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-2-120-2HI-LO-40
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

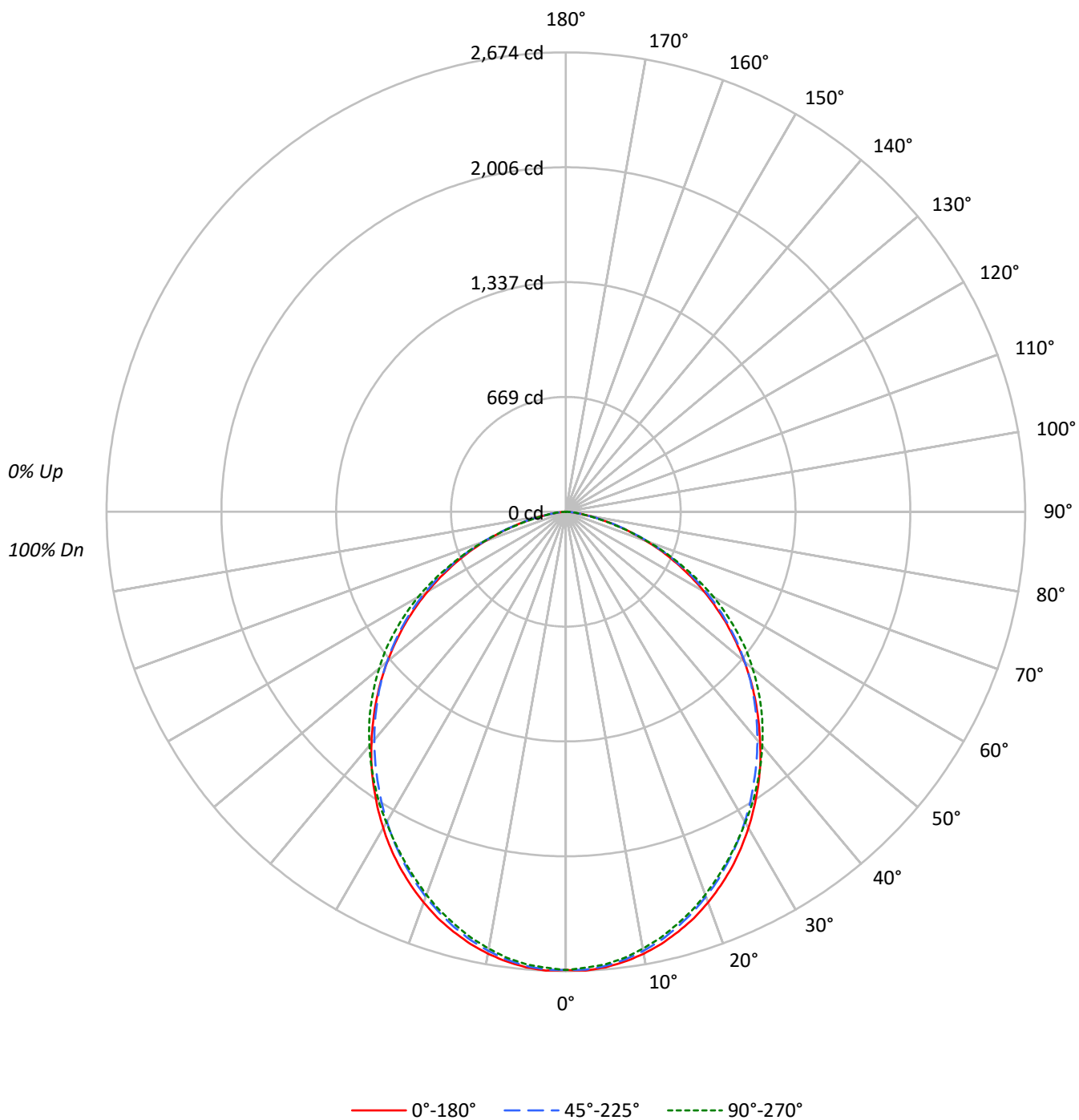
Lumens per Lamp: N/A
Luminaire Lumens: 6550.0 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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	93	90		91
2	100	92	86	81	98	91	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	41	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7178	7178	7178
5°	7189	7169	7143
10°	7138	7094	7055
15°	7048	6976	6934
20°	6931	6828	6794
25°	6783	6660	6633
30°	6607	6474	6492
35°	6410	6277	6372
40°	6183	6094	6248
45°	5941	5903	6116
50°	5677	5694	5940
55°	5374	5439	5700
60°	5009	5119	5352
65°	4546	4675	4782
70°	3915	4034	4013
75°	3109	3185	3017
80°	2087	2084	1943
85°	1050	1288	1581

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6116 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.1	3.8
10°-20°	705.4	10.8
20°-30°	1035.4	15.8
30°-40°	1205.3	18.4
40°-50°	1207.6	18.4
50°-60°	1042.9	15.9
60°-70°	723.5	11.0
70°-80°	323.2	4.9
80°-90°	55.4	0.8
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°	1991.9	30.4
0°-40°	3197.3	48.8
0°-60°	5447.8	83.2
0°-90°	6550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6550.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2668	2668	2668	2668	2668	
5°	2662	2650	2654	2641	2644	252
15°	2530	2514	2504	2486	2489	713
25°	2285	2265	2243	2228	2234	1051
35°	1951	1928	1911	1922	1940	1219
45°	1561	1543	1551	1585	1607	1204
55°	1146	1134	1159	1199	1215	1023
65°	714	713	734	744	751	707
75°	299	300	306	295	290	322
85°	34	37	42	48	51	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2667.6	2667.6	2667.6	2667.6	2667.6
2.5°	2673.5	2662.8	2667.6	2658.2	2656.0
5°	2661.5	2650.5	2653.9	2641.4	2644.2
7.5°	2641.0	2629.0	2629.6	2616.1	2619.3
10°	2612.3	2598.4	2596.1	2580.0	2582.0
12.5°	2575.7	2560.9	2555.0	2537.1	2540.7
15°	2530.0	2514.0	2503.9	2486.4	2489.0
17.5°	2480.0	2463.7	2447.5	2429.4	2435.1
20°	2420.3	2403.5	2384.5	2365.5	2372.3
22.5°	2354.6	2336.0	2317.0	2298.9	2304.1
25°	2284.6	2264.8	2243.0	2227.9	2234.0
27.5°	2208.3	2186.4	2165.5	2153.4	2162.0
30°	2126.3	2104.0	2083.6	2077.9	2089.3
32.5°	2040.0	2018.1	1999.1	2002.4	2018.0
35°	1951.1	1927.7	1910.9	1922.5	1939.7
37.5°	1858.7	1836.0	1823.6	1843.2	1861.3
40°	1760.2	1740.3	1734.7	1759.6	1778.6
42.5°	1661.8	1643.2	1644.0	1674.6	1695.2
45°	1561.2	1543.1	1551.2	1585.2	1607.2
47.5°	1461.8	1442.9	1457.2	1494.6	1514.2
50°	1356.1	1340.9	1360.0	1398.8	1418.8
52.5°	1250.7	1236.9	1260.7	1301.5	1324.1
55°	1145.5	1133.8	1159.4	1199.0	1215.0
57.5°	1037.8	1030.6	1057.3	1091.3	1106.4
60°	930.7	924.6	951.1	981.2	994.5
62.5°	822.4	818.3	843.9	866.3	873.0
65°	713.9	713.4	734.2	744.2	751.0
67.5°	608.0	606.6	624.8	631.7	632.6
70°	497.6	499.7	512.7	513.2	510.1
72.5°	397.0	397.3	405.5	400.1	394.9
75°	299.0	300.5	306.3	294.7	290.2
77.5°	210.1	214.8	212.7	202.2	198.2
80°	134.7	139.9	134.5	128.7	125.4
82.5°	74.9	78.1	75.7	81.8	84.3
85°	34.0	36.7	41.7	48.5	51.2
87.5°	11.5	13.9	17.3	18.3	17.2
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	17.77	19.36	18.14	19.67	19.98	18.18	19.76	18.54	20.08	20.39
	3H	19.23	20.65	19.60	20.98	21.34	19.57	21.00	19.95	21.32	21.68
	4H	19.64	20.98	20.04	21.33	21.71	19.93	21.27	20.33	21.62	22.00
	6H	19.84	21.08	20.25	21.44	21.83	20.09	21.32	20.50	21.69	22.08
	8H	19.87	21.04	20.29	21.43	21.83	20.11	21.29	20.53	21.68	22.08
	12H	19.86	20.99	20.29	21.37	21.80	20.12	21.25	20.55	21.63	22.06
4H	2H	18.36	19.69	18.75	20.04	20.42	18.68	20.02	19.08	20.37	20.75
	3H	19.98	21.09	20.39	21.49	21.89	20.26	21.37	20.67	21.77	22.17
	4H	20.48	21.48	20.92	21.90	22.33	20.70	21.70	21.13	22.12	22.55
	6H	20.76	21.63	21.21	22.07	22.53	20.92	21.79	21.38	22.23	22.69
	8H	20.80	21.61	21.26	22.05	22.52	20.96	21.77	21.42	22.21	22.68
	12H	20.80	21.53	21.29	22.01	22.48	20.99	21.71	21.47	22.19	22.66
8H	4H	20.66	21.47	21.12	21.91	22.38	20.86	21.67	21.32	22.11	22.58
	6H	20.98	21.65	21.48	22.14	22.62	21.12	21.79	21.62	22.28	22.76
	8H	21.05	21.64	21.56	22.15	22.64	21.19	21.79	21.70	22.29	22.78
	12H	21.08	21.60	21.58	22.10	22.66	21.24	21.77	21.75	22.26	22.83
12H	4H	20.65	21.38	21.13	21.86	22.33	20.85	21.58	21.34	22.06	22.53
	6H	20.98	21.58	21.49	22.08	22.57	21.11	21.71	21.63	22.22	22.71
	8H	21.07	21.60	21.58	22.09	22.65	21.21	21.74	21.72	22.23	22.79