

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: P1498339

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498339
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-HI-30-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

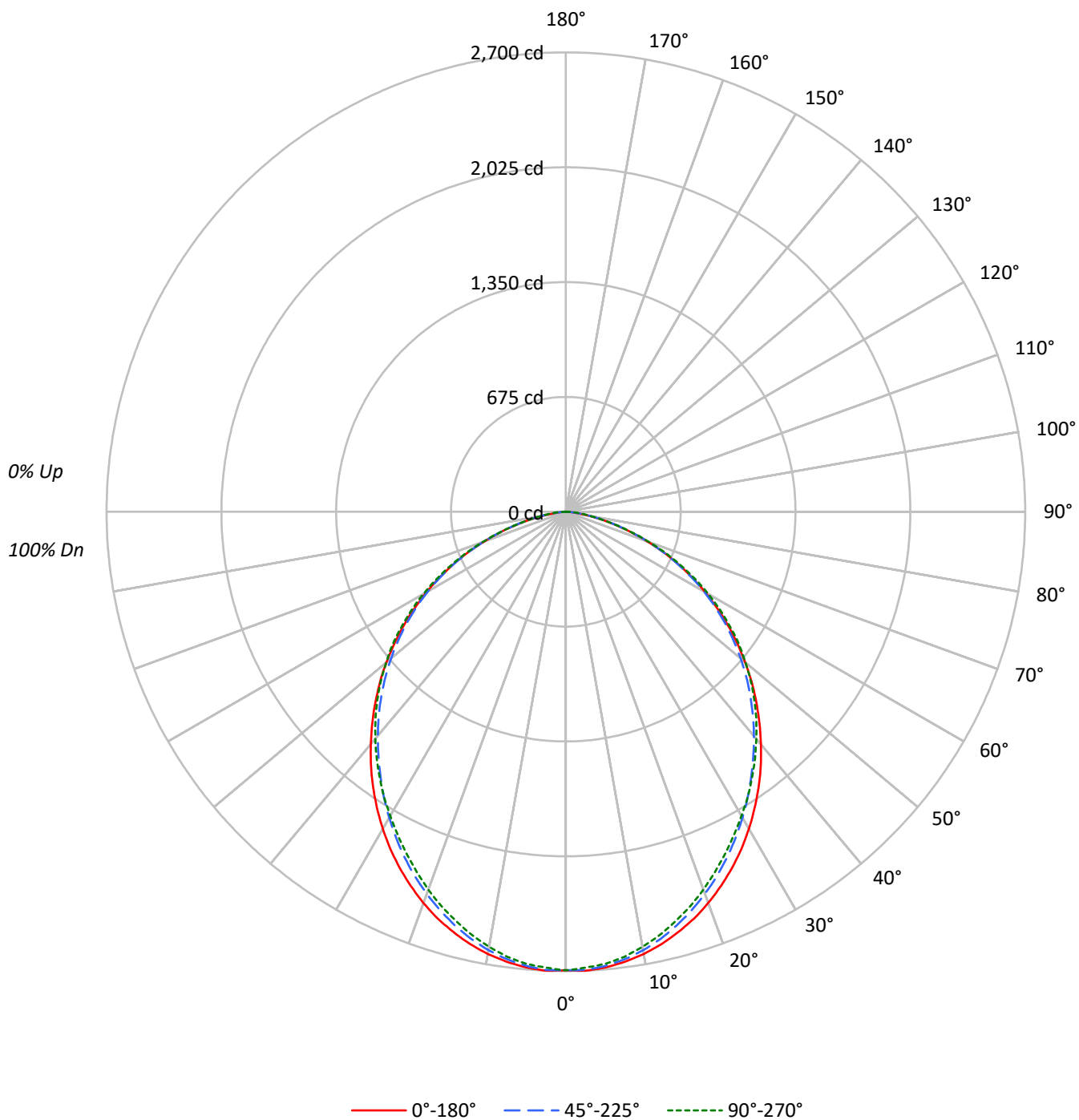
Lumens per Lamp: N/A
Luminaire Lumens: 6548.0 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 87.7
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	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°	7252	7252	7252
5°	7262	7238	7205
10°	7212	7150	7094
15°	7123	7013	6940
20°	7008	6844	6768
25°	6861	6656	6581
30°	6687	6452	6413
35°	6490	6241	6267
40°	6266	6041	6119
45°	6024	5837	5965
50°	5761	5617	5771
55°	5457	5356	5531
60°	5092	5034	5218
65°	4632	4608	4744
70°	4002	4033	4106
75°	3191	3284	3272
80°	2165	2307	2343
85°	1115	1562	2007

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6024 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.4	3.9
10°-20°	709.2	10.8
20°-30°	1036.1	15.8
30°-40°	1200.8	18.3
40°-50°	1197.8	18.3
50°-60°	1031.3	15.7
60°-70°	720.5	11.0
70°-80°	335.1	5.1
80°-90°	63.8	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°	1998.7	30.5
0°-40°	3199.5	48.9
0°-60°	5428.5	82.9
0°-90°	6548.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6548.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2695	2695	2695	2695	2695	
5°	2688	2679	2680	2664	2667	255
15°	2557	2539	2517	2490	2491	721
25°	2311	2283	2242	2214	2216	1064
35°	1976	1940	1900	1896	1908	1235
45°	1583	1551	1534	1552	1567	1221
55°	1163	1138	1142	1167	1179	1039
65°	727	714	724	737	745	720
75°	307	302	316	315	315	330
85°	36	41	51	61	65	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2694.9	2694.9	2694.9	2694.9	2694.9
2.5°	2700.2	2691.8	2694.9	2682.6	2682.1
5°	2688.5	2679.0	2679.5	2663.5	2667.2
7.5°	2667.9	2656.7	2653.0	2634.8	2638.0
10°	2639.2	2625.4	2616.8	2594.3	2596.0
12.5°	2602.5	2586.7	2572.0	2546.0	2548.6
15°	2556.9	2538.9	2517.3	2489.7	2491.0
17.5°	2506.6	2486.8	2456.9	2427.4	2431.6
20°	2447.1	2425.2	2389.9	2359.3	2363.5
22.5°	2381.2	2356.2	2319.2	2288.7	2290.7
25°	2310.7	2282.9	2241.7	2213.7	2216.4
27.5°	2234.2	2203.3	2161.0	2135.7	2140.4
30°	2152.0	2119.3	2076.4	2057.0	2063.9
32.5°	2065.4	2031.8	1990.0	1978.5	1989.0
35°	1975.7	1940.0	1899.7	1896.1	1907.8
37.5°	1882.3	1847.2	1810.4	1814.4	1826.5
40°	1783.7	1750.4	1719.7	1728.9	1742.0
42.5°	1684.4	1652.2	1627.8	1642.4	1656.6
45°	1583.0	1550.9	1533.9	1552.1	1567.3
47.5°	1482.1	1449.9	1439.5	1460.9	1474.5
50°	1376.0	1347.1	1341.8	1365.3	1378.4
52.5°	1268.8	1241.9	1242.6	1268.2	1284.6
55°	1163.1	1137.8	1141.7	1167.4	1179.0
57.5°	1054.4	1033.9	1040.3	1063.4	1075.1
60°	946.1	927.1	935.4	957.9	969.6
62.5°	836.6	820.0	830.3	849.8	857.8
65°	727.4	714.3	723.7	737.0	745.0
67.5°	619.6	607.6	618.6	632.1	635.3
70°	508.6	500.4	512.6	521.3	521.9
72.5°	406.1	398.5	410.8	415.3	413.9
75°	306.9	302.5	315.9	315.1	314.7
77.5°	216.7	217.6	225.7	225.5	225.7
80°	139.7	144.5	148.9	151.7	151.2
82.5°	78.6	83.4	89.0	100.1	104.4
85°	36.1	40.9	50.6	60.7	65.0
87.5°	12.2	15.9	21.3	22.9	21.8
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	17.81	19.39	18.18	19.71	20.02	18.00	19.58	18.36	19.90	20.21
	3H	19.28	20.70	19.66	21.03	21.39	19.48	20.90	19.86	21.23	21.59
	4H	19.70	21.04	20.10	21.39	21.77	19.91	21.24	20.31	21.59	21.97
	6H	19.91	21.15	20.32	21.52	21.91	20.13	21.36	20.54	21.73	22.12
	8H	19.94	21.12	20.37	21.51	21.91	20.18	21.36	20.60	21.74	22.14
	12H	19.94	21.07	20.37	21.45	21.88	20.21	21.34	20.64	21.72	22.15
4H	2H	18.37	19.70	18.76	20.05	20.43	18.52	19.85	18.92	20.20	20.58
	3H	20.01	21.12	20.42	21.52	21.92	20.19	21.30	20.60	21.70	22.10
	4H	20.52	21.52	20.95	21.94	22.37	20.71	21.71	21.14	22.12	22.56
	6H	20.81	21.68	21.26	22.12	22.58	21.01	21.88	21.46	22.32	22.78
	8H	20.85	21.67	21.32	22.11	22.58	21.08	21.90	21.54	22.34	22.80
	12H	20.87	21.60	21.35	22.07	22.54	21.14	21.87	21.62	22.34	22.81
8H	4H	20.71	21.53	21.17	21.97	22.44	20.88	21.69	21.34	22.14	22.60
	6H	21.06	21.73	21.55	22.22	22.70	21.24	21.91	21.74	22.40	22.88
	8H	21.13	21.73	21.64	22.24	22.73	21.35	21.95	21.87	22.46	22.95
	12H	21.17	21.70	21.67	22.19	22.75	21.45	21.98	21.96	22.47	23.04
12H	4H	20.71	21.44	21.19	21.92	22.39	20.88	21.61	21.36	22.08	22.55
	6H	21.06	21.66	21.57	22.17	22.66	21.24	21.84	21.75	22.35	22.84
	8H	21.17	21.70	21.67	22.19	22.75	21.39	21.92	21.90	22.41	22.97