

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: P1498532

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498532
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-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

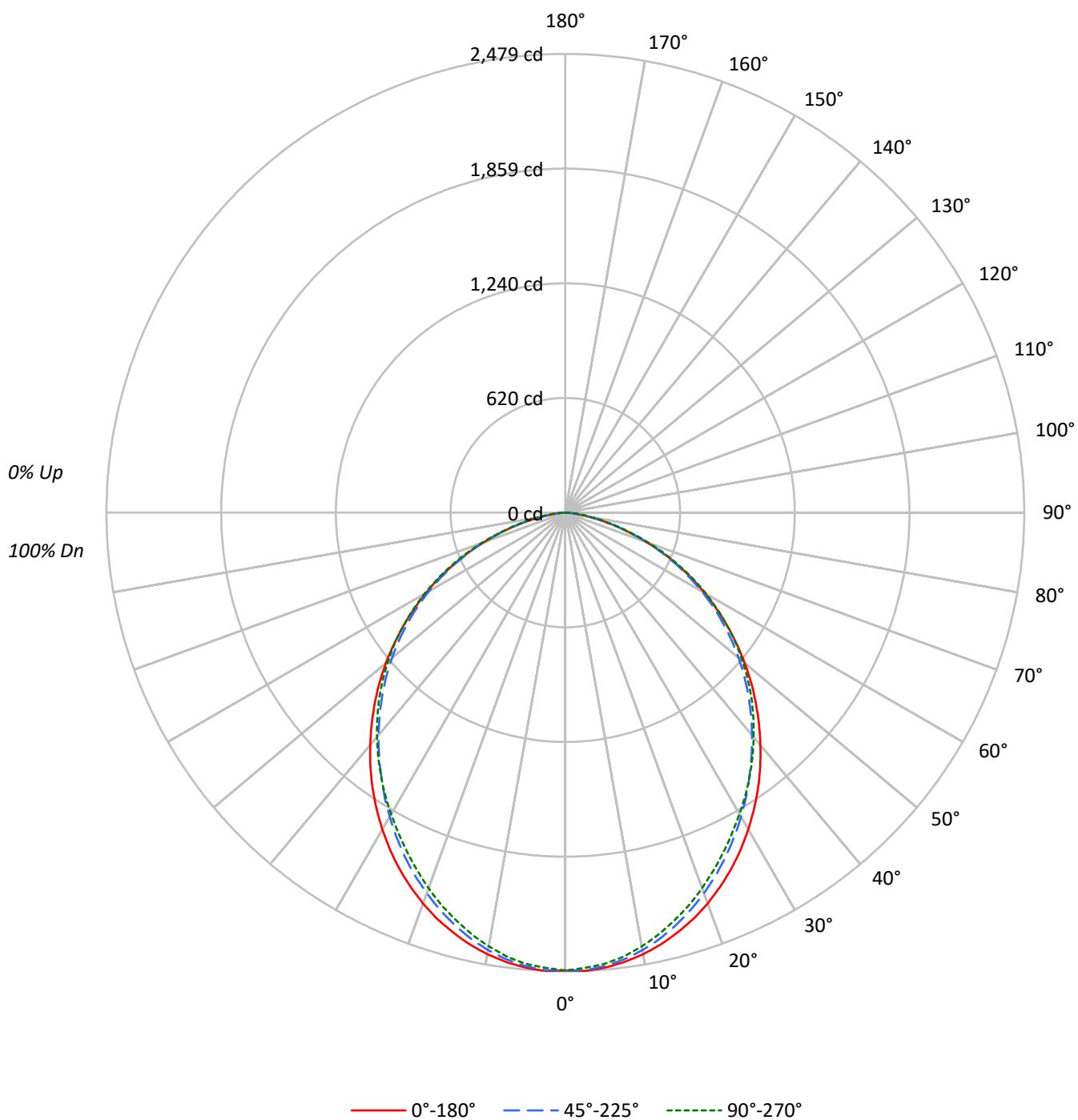
Lumens per Lamp: N/A
Luminaire Lumens: 5990.9 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 80
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	80	98	90	85	79	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	56		66	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	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6658	6658	6658
5°	6668	6644	6612
10°	6621	6560	6502
15°	6541	6428	6352
20°	6436	6267	6186
25°	6302	6089	6006
30°	6143	5897	5844
35°	5964	5699	5703
40°	5759	5512	5560
45°	5538	5321	5411
50°	5297	5117	5228
55°	5019	4876	5010
60°	4684	4581	4735
65°	4264	4195	4329
70°	3688	3690	3785
75°	2944	3036	3071
80°	2005	2179	2267
85°	1041	1513	1967

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5538 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.5	3.9
10°-20°	650.1	10.9
20°-30°	948.3	15.8
30°-40°	1097.4	18.3
40°-50°	1093.0	18.2
50°-60°	940.0	15.7
60°-70°	658.4	11.0
70°-80°	310.2	5.2
80°-90°	61.0	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°	1830.9	30.6
0°-40°	2928.3	48.9
0°-60°	4961.4	82.8
0°-90°	5990.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5990.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2474	2474	2474	2474	2474	
5°	2468	2460	2460	2444	2448	234
15°	2348	2331	2308	2279	2280	662
25°	2122	2094	2051	2021	2023	977
35°	1815	1779	1735	1727	1736	1135
45°	1455	1422	1398	1410	1422	1122
55°	1070	1042	1039	1058	1068	955
65°	670	654	659	672	680	662
75°	283	277	292	295	295	305
85°	34	39	49	59	64	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2474.2	2474.2	2474.2	2474.2	2474.2
2.5°	2478.9	2472.0	2474.2	2462.1	2462.2
5°	2468.3	2460.1	2459.7	2444.0	2447.6
7.5°	2449.4	2439.5	2434.8	2416.6	2419.6
10°	2423.2	2410.6	2400.8	2378.2	2379.6
12.5°	2389.6	2374.8	2358.7	2332.4	2334.5
15°	2347.8	2330.8	2307.5	2279.1	2279.9
17.5°	2301.7	2282.5	2251.0	2220.5	2223.9
20°	2247.4	2225.7	2188.5	2156.9	2160.0
22.5°	2187.0	2162.2	2122.8	2091.1	2092.0
25°	2122.4	2094.5	2050.9	2021.3	2022.7
27.5°	2052.2	2021.2	1976.0	1948.8	1952.0
30°	1976.9	1943.9	1897.8	1875.8	1880.8
32.5°	1897.6	1863.4	1818.1	1803.1	1811.1
35°	1815.4	1778.9	1734.8	1726.9	1735.9
37.5°	1729.6	1693.7	1652.5	1651.4	1660.7
40°	1639.3	1604.7	1569.0	1572.6	1582.8
42.5°	1548.2	1514.6	1484.6	1493.0	1504.0
45°	1455.2	1421.5	1398.2	1410.2	1421.9
47.5°	1362.4	1328.8	1311.7	1326.5	1337.1
50°	1265.2	1234.4	1222.2	1239.1	1248.9
52.5°	1166.6	1137.9	1131.5	1150.2	1163.4
55°	1069.7	1042.3	1039.3	1058.5	1067.8
57.5°	969.9	947.1	946.7	964.5	974.1
60°	870.4	849.1	851.1	869.4	879.7
62.5°	769.9	750.8	755.6	772.5	780.2
65°	669.7	653.9	658.9	672.2	679.9
67.5°	570.5	556.3	564.1	578.5	582.2
70°	468.7	458.0	469.0	479.5	481.1
72.5°	374.4	365.0	377.6	384.6	384.5
75°	283.2	277.4	292.0	294.6	295.4
77.5°	200.3	200.0	210.5	213.4	214.9
80°	129.4	133.6	140.6	145.9	146.3
82.5°	73.1	77.9	85.5	97.2	101.7
85°	33.7	38.7	49.0	59.3	63.7
87.5°	11.4	15.1	20.7	22.4	21.3
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	17.52	19.10	17.88	19.41	19.73	17.63	19.21	17.99	19.52	19.84
	3H	18.99	20.41	19.36	20.74	21.10	19.14	20.56	19.52	20.89	21.25
	4H	19.42	20.75	19.81	21.10	21.48	19.59	20.93	19.99	21.28	21.65
	6H	19.63	20.87	20.04	21.23	21.62	19.83	21.07	20.25	21.44	21.83
	8H	19.66	20.84	20.08	21.23	21.63	19.89	21.07	20.32	21.46	21.86
	12H	19.66	20.79	20.09	21.17	21.60	19.93	21.06	20.36	21.44	21.87
4H	2H	18.06	19.40	18.46	19.75	20.12	18.15	19.49	18.55	19.84	20.21
	3H	19.71	20.82	20.12	21.22	21.62	19.85	20.97	20.26	21.36	21.77
	4H	20.23	21.23	20.66	21.64	22.08	20.40	21.40	20.83	21.82	22.25
	6H	20.52	21.39	20.97	21.83	22.29	20.73	21.60	21.19	22.05	22.50
	8H	20.56	21.38	21.03	21.82	22.29	20.82	21.63	21.28	22.08	22.54
	12H	20.58	21.31	21.06	21.79	22.26	20.89	21.61	21.37	22.09	22.56
8H	4H	20.42	21.24	20.88	21.68	22.15	20.58	21.39	21.04	21.84	22.30
	6H	20.77	21.45	21.27	21.94	22.41	20.98	21.65	21.47	22.14	22.62
	8H	20.85	21.45	21.36	21.96	22.45	21.11	21.71	21.62	22.22	22.70
	12H	20.89	21.42	21.40	21.91	22.47	21.22	21.75	21.73	22.24	22.80
12H	4H	20.42	21.15	20.91	21.63	22.10	20.58	21.31	21.06	21.78	22.25
	6H	20.78	21.38	21.29	21.89	22.38	20.98	21.58	21.49	22.09	22.58
	8H	20.89	21.42	21.40	21.91	22.48	21.14	21.68	21.65	22.17	22.73