

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: P1498652

Luminaire Tested: MAE-G-2-120-3HI-LO-30-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3HI-LO-30-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

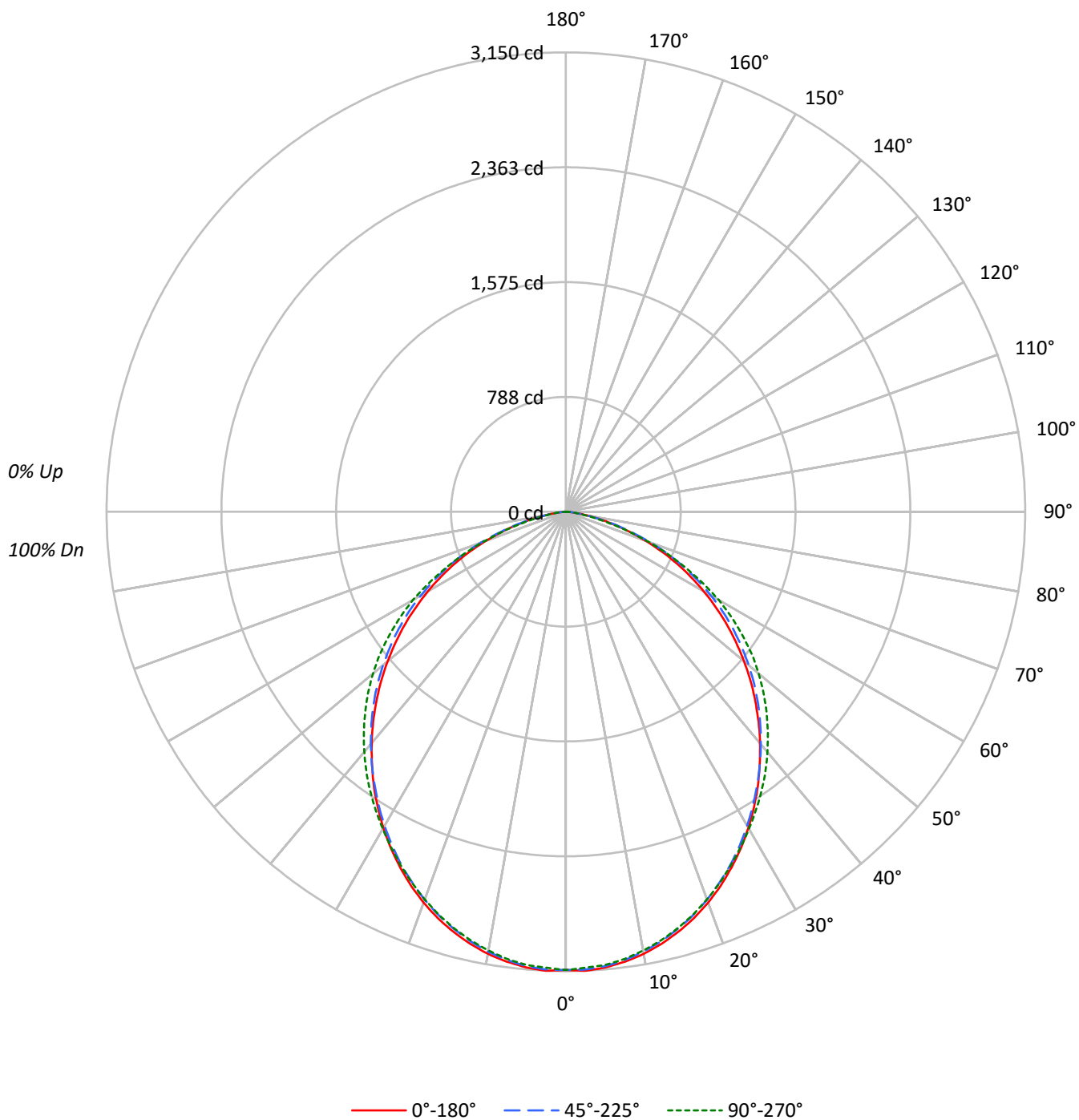
Lumens per Lamp: N/A
Luminaire Lumens: 7801.0 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 92.3
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
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	93	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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8455	8455	8455
5°	8471	8447	8426
10°	8411	8371	8348
15°	8307	8252	8240
20°	8169	8107	8102
25°	7987	7929	7947
30°	7778	7725	7803
35°	7543	7513	7684
40°	7277	7308	7555
45°	6989	7095	7407
50°	6674	6849	7228
55°	6322	6561	6937
60°	5882	6184	6519
65°	5334	5657	5751
70°	4581	4862	4732
75°	3628	3764	3352
80°	2421	2312	1956
85°	1220	1318	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7407 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.1	3.8
10°-20°	834.6	10.7
20°-30°	1230.4	15.8
30°-40°	1437.8	18.4
40°-50°	1446.2	18.5
50°-60°	1253.0	16.1
60°-70°	867.2	11.1
70°-80°	376.6	4.8
80°-90°	59.1	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°	2361.1	30.3
0°-40°	3798.9	48.7
0°-60°	6498.1	83.3
0°-90°	7801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7801.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3142	3142	3142	3142	3142	
5°	3136	3121	3127	3116	3119	297
15°	2982	2965	2962	2952	2958	840
25°	2690	2673	2671	2662	2676	1238
35°	2296	2279	2287	2312	2339	1434
45°	1837	1829	1864	1916	1946	1417
55°	1348	1346	1398	1458	1479	1203
65°	838	847	888	902	903	828
75°	349	358	362	338	322	375
85°	40	40	43	47	49	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3141.9	3141.9	3141.9	3141.9	3141.9
2.5°	3150.4	3135.0	3141.9	3133.2	3129.3
5°	3135.9	3120.8	3126.9	3115.7	3119.2
7.5°	3111.5	3096.3	3099.9	3088.7	3092.5
10°	3078.1	3061.1	3063.4	3051.6	3055.0
12.5°	3033.8	3017.3	3017.6	3005.0	3011.1
15°	2981.9	2964.7	2962.1	2951.5	2957.6
17.5°	2921.8	2903.7	2901.1	2888.1	2897.3
20°	2852.5	2834.3	2831.0	2816.7	2829.3
22.5°	2775.1	2757.2	2752.3	2741.6	2755.1
25°	2689.9	2673.3	2670.6	2662.3	2676.4
27.5°	2600.3	2581.9	2581.0	2579.0	2594.4
30°	2503.3	2485.3	2486.1	2489.9	2511.1
32.5°	2400.9	2384.3	2388.2	2402.4	2426.3
35°	2296.1	2278.9	2287.1	2311.5	2339.2
37.5°	2183.2	2171.2	2185.1	2219.4	2247.8
40°	2071.5	2058.9	2080.3	2121.2	2150.7
42.5°	1956.3	1946.9	1973.7	2022.3	2050.2
45°	1836.6	1829.4	1864.3	1916.0	1946.4
47.5°	1719.8	1711.5	1752.2	1807.5	1839.6
50°	1594.3	1590.6	1636.1	1696.0	1726.5
52.5°	1471.2	1467.3	1518.1	1580.5	1608.9
55°	1347.6	1345.5	1398.4	1458.2	1478.6
57.5°	1219.8	1224.1	1276.7	1328.0	1348.4
60°	1092.9	1098.0	1149.1	1194.1	1211.2
62.5°	966.0	973.9	1020.4	1054.1	1057.7
65°	837.7	847.1	888.4	901.8	903.2
67.5°	708.3	720.3	754.8	756.6	753.7
70°	582.3	591.6	618.0	612.3	601.4
72.5°	459.9	471.4	483.8	470.6	455.3
75°	348.9	357.9	362.0	337.5	322.4
77.5°	245.4	251.1	247.1	221.4	210.5
80°	156.2	161.3	149.2	133.5	126.2
82.5°	86.4	90.1	79.8	81.8	83.2
85°	39.5	40.5	42.7	47.3	48.9
87.5°	13.5	15.0	17.2	18.0	16.4
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	18.35	19.93	18.71	20.24	20.56	18.94	20.52	19.30	20.84	21.15
	3H	19.78	21.21	20.16	21.53	21.89	20.28	21.70	20.66	22.03	22.39
	4H	20.19	21.53	20.59	21.88	22.25	20.60	21.93	20.99	22.28	22.66
	6H	20.39	21.62	20.80	21.99	22.38	20.70	21.93	21.11	22.30	22.69
	8H	20.41	21.58	20.83	21.97	22.37	20.71	21.88	21.13	22.27	22.67
	12H	20.40	21.53	20.83	21.91	22.34	20.70	21.83	21.13	22.21	22.64
4H	2H	18.96	20.30	19.36	20.64	21.02	19.44	20.77	19.83	21.12	21.50
	3H	20.56	21.67	20.97	22.07	22.47	20.96	22.07	21.37	22.47	22.87
	4H	21.06	22.06	21.49	22.47	22.91	21.35	22.35	21.78	22.76	23.20
	6H	21.32	22.19	21.78	22.63	23.09	21.51	22.38	21.97	22.82	23.28
	8H	21.36	22.17	21.82	22.61	23.08	21.53	22.34	21.99	22.78	23.25
	12H	21.36	22.09	21.85	22.57	23.04	21.54	22.26	22.02	22.74	23.21
8H	4H	21.23	22.04	21.69	22.48	22.95	21.50	22.31	21.96	22.75	23.21
	6H	21.54	22.21	22.04	22.70	23.17	21.69	22.36	22.19	22.85	23.32
	8H	21.60	22.19	22.11	22.70	23.19	21.72	22.32	22.24	22.83	23.32
	12H	21.62	22.15	22.13	22.64	23.20	21.76	22.28	22.26	22.77	23.34
12H	4H	21.22	21.94	21.70	22.42	22.89	21.49	22.21	21.97	22.69	23.16
	6H	21.52	22.12	22.04	22.63	23.12	21.68	22.28	22.19	22.78	23.27
	8H	21.61	22.14	22.12	22.63	23.19	21.74	22.27	22.25	22.76	23.32