

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: P1498760

Luminaire Tested: MAE-G-2-120-3LO-LO-40-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498760
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-2-120-3LO-LO-40-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

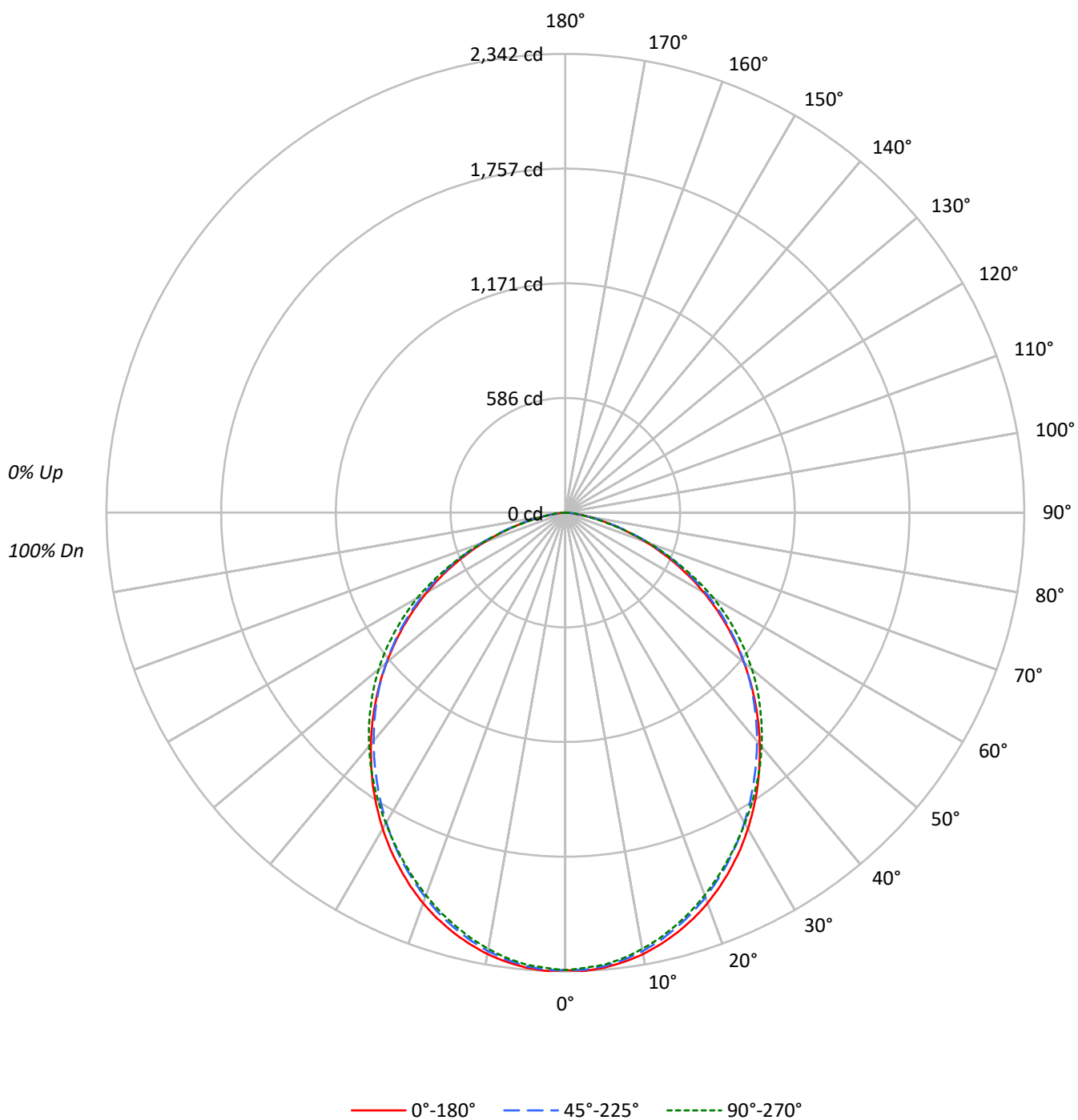
Lumens per Lamp: N/A
Luminaire Lumens: 5747.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 61.2
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	88	86
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53	47	43	40
7	67	53	45	39	65	53	44	39	51	44	38		50	43	38		48	42	38	36
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44	38	34	32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	54	41	34	29	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6286	6286	6286
5°	6297	6277	6256
10°	6253	6211	6181
15°	6178	6110	6077
20°	6076	5986	5953
25°	5943	5841	5817
30°	5791	5677	5692
35°	5619	5509	5586
40°	5423	5347	5474
45°	5211	5179	5349
50°	4980	4991	5202
55°	4719	4773	4989
60°	4395	4494	4704
65°	3993	4117	4208
70°	3440	3578	3551
75°	2732	2842	2656
80°	1839	1864	1734
85°	945	1167	1423

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5349 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.9	3.8
10°-20°	617.9	10.8
20°-30°	907.4	15.8
30°-40°	1056.3	18.4
40°-50°	1058.5	18.4
50°-60°	914.7	15.9
60°-70°	636.6	11.1
70°-80°	286.0	5.0
80°-90°	49.6	0.9
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°	1745.2	30.4
0°-40°	2801.5	48.7
0°-60°	4774.8	83.1
0°-90°	5747.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5747.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2336	2336	2336	2336	2336	
5°	2331	2321	2324	2313	2316	221
15°	2218	2203	2193	2178	2181	625
25°	2002	1984	1967	1952	1959	922
35°	1710	1689	1677	1684	1700	1069
45°	1369	1354	1361	1388	1406	1057
55°	1006	994	1017	1051	1063	898
65°	627	625	646	659	661	620
75°	263	265	273	263	256	282
85°	31	33	38	44	46	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2335.9	2335.9	2335.9	2335.9	2335.9
2.5°	2341.7	2332.1	2335.9	2327.4	2325.9
5°	2331.2	2321.3	2323.7	2312.8	2316.0
7.5°	2313.1	2302.5	2302.2	2290.4	2293.3
10°	2288.5	2276.2	2273.2	2259.7	2261.9
12.5°	2255.8	2243.0	2237.0	2221.5	2225.2
15°	2217.5	2203.3	2193.1	2177.9	2181.2
17.5°	2173.0	2157.4	2145.0	2127.3	2132.9
20°	2121.9	2105.0	2090.3	2071.6	2078.8
22.5°	2064.8	2047.0	2030.2	2013.2	2020.5
25°	2001.7	1983.7	1967.2	1951.8	1959.3
27.5°	1935.5	1915.4	1898.8	1887.6	1896.1
30°	1863.8	1843.0	1826.9	1819.9	1831.9
32.5°	1788.1	1767.6	1753.2	1753.2	1767.1
35°	1710.4	1688.6	1677.0	1684.2	1700.4
37.5°	1626.7	1608.5	1600.4	1614.6	1631.1
40°	1543.9	1524.9	1522.0	1540.8	1558.2
42.5°	1458.2	1441.3	1442.4	1466.8	1483.0
45°	1369.4	1353.8	1361.0	1387.9	1405.5
47.5°	1282.2	1266.2	1278.1	1307.6	1326.6
50°	1189.6	1176.5	1192.3	1225.3	1242.7
52.5°	1097.5	1084.9	1105.4	1140.2	1157.1
55°	1005.9	994.5	1017.4	1051.3	1063.3
57.5°	911.1	904.5	928.2	957.9	970.5
60°	816.7	811.0	835.0	862.6	874.0
62.5°	722.2	718.8	741.8	764.1	767.9
65°	627.1	625.0	646.5	658.6	660.9
67.5°	530.9	531.6	551.2	557.4	557.1
70°	437.2	436.7	454.7	456.4	451.3
72.5°	346.0	348.2	359.9	357.2	349.1
75°	262.8	265.0	273.3	263.2	255.5
77.5°	185.5	187.4	191.0	179.9	175.1
80°	118.7	122.4	120.3	115.1	111.9
82.5°	66.3	70.1	68.3	73.6	75.9
85°	30.6	32.9	37.8	43.7	46.1
87.5°	10.4	12.4	15.5	16.6	15.4
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	17.32	18.90	17.68	19.22	19.53	17.73	19.31	18.09	19.62	19.94
	3H	18.77	20.19	19.14	20.52	20.88	19.14	20.56	19.51	20.89	21.25
	4H	19.18	20.52	19.58	20.87	21.25	19.50	20.84	19.90	21.19	21.57
	6H	19.39	20.62	19.80	20.99	21.38	19.66	20.89	20.07	21.26	21.65
	8H	19.41	20.59	19.84	20.98	21.38	19.68	20.86	20.11	21.25	21.65
	12H	19.41	20.54	19.84	20.92	21.35	19.70	20.82	20.13	21.20	21.63
4H	2H	17.91	19.24	18.30	19.59	19.97	18.24	19.57	18.63	19.92	20.30
	3H	19.53	20.64	19.94	21.04	21.44	19.83	20.94	20.24	21.34	21.74
	4H	20.03	21.03	20.46	21.44	21.88	20.28	21.28	20.71	21.70	22.13
	6H	20.31	21.17	20.76	21.62	22.07	20.50	21.37	20.96	21.82	22.27
	8H	20.34	21.16	20.81	21.60	22.07	20.55	21.36	21.01	21.80	22.27
	12H	20.36	21.08	20.84	21.56	22.03	20.58	21.30	21.06	21.78	22.25
8H	4H	20.21	21.02	20.67	21.47	21.93	20.44	21.25	20.90	21.70	22.16
	6H	20.54	21.21	21.03	21.70	22.18	20.71	21.38	21.21	21.87	22.35
	8H	20.60	21.20	21.12	21.71	22.20	20.78	21.38	21.29	21.89	22.38
	12H	20.64	21.16	21.14	21.66	22.22	20.84	21.37	21.35	21.86	22.43
12H	4H	20.21	20.93	20.69	21.41	21.88	20.44	21.16	20.92	21.64	22.11
	6H	20.53	21.13	21.04	21.64	22.13	20.70	21.31	21.22	21.81	22.30
	8H	20.63	21.16	21.14	21.65	22.21	20.81	21.33	21.31	21.83	22.39