

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: P1498610

Luminaire Tested: MAE-G-2-120-3HI-35-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498610
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-35-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

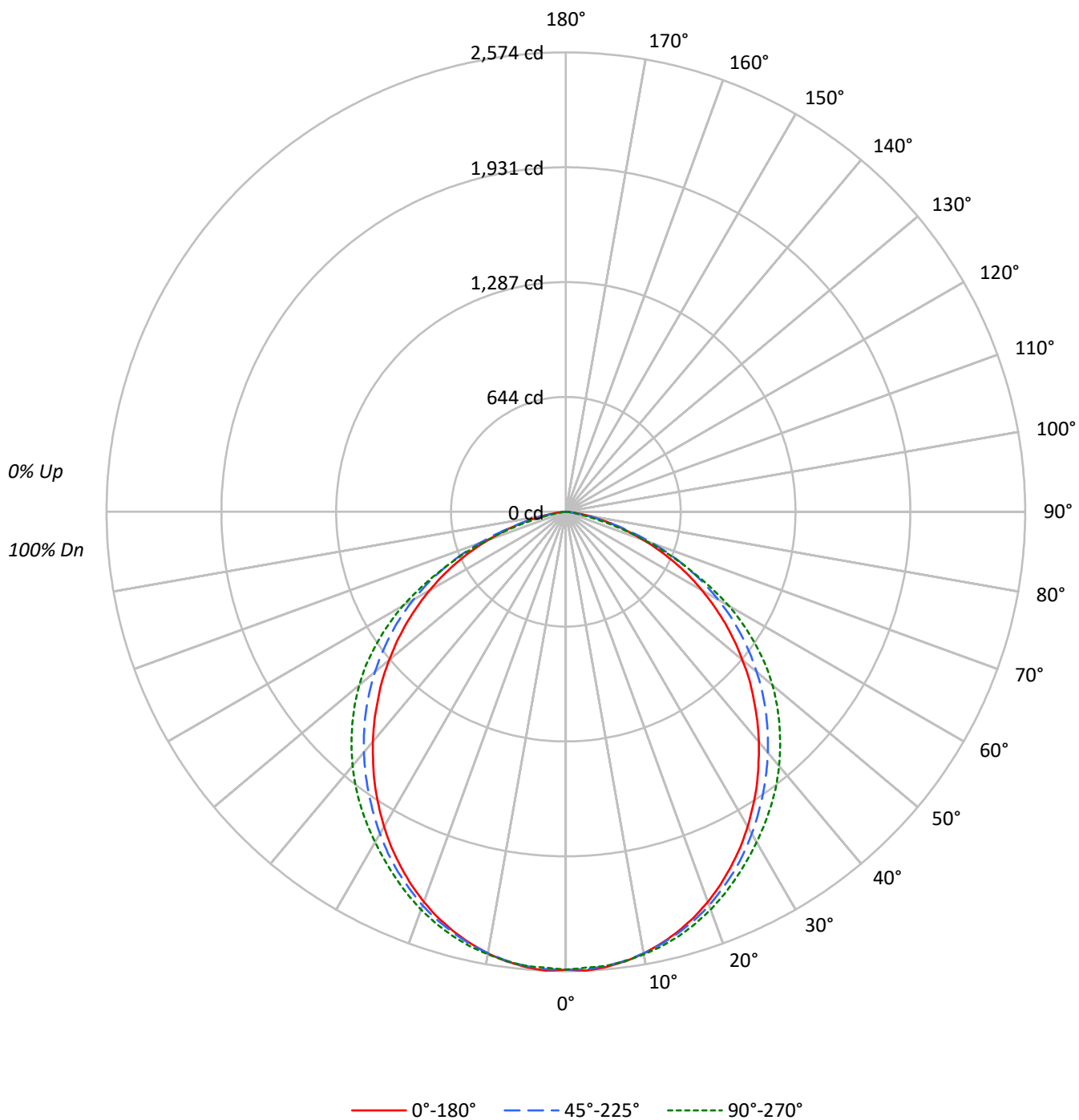
Lumens per Lamp: N/A
Luminaire Lumens: 6502.0 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 67.8
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	102	98	107	103	100	96	99	96	93		95	93	91		92
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		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
5	78	65	56	50	76	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	36	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°	6903	6903	6903
5°	6918	6904	6901
10°	6867	6864	6880
15°	6780	6802	6851
20°	6662	6723	6793
25°	6507	6611	6715
30°	6331	6475	6644
35°	6132	6327	6594
40°	5909	6184	6528
45°	5668	6032	6444
50°	5406	5845	6330
55°	5115	5619	6086
60°	4747	5309	5679
65°	4287	4842	4864
70°	3659	4065	3781
75°	2874	2966	2326
80°	1875	1526	900
85°	898	602	479

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6444 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.3	3.7
10°-20°	688.0	10.6
20°-30°	1023.2	15.7
30°-40°	1205.7	18.5
40°-50°	1222.5	18.8
50°-60°	1065.2	16.4
60°-70°	728.5	11.2
70°-80°	292.7	4.5
80°-90°	33.9	0.5
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°	1953.5	30.0
0°-40°	3159.2	48.6
0°-60°	5446.9	83.8
0°-90°	6502.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6502.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2565	2565	2565	2565	2565	
5°	2561	2546	2556	2553	2555	243
15°	2434	2423	2441	2452	2459	686
25°	2192	2192	2227	2243	2262	1009
35°	1867	1875	1926	1973	2007	1166
45°	1489	1510	1585	1656	1693	1150
55°	1090	1113	1198	1273	1297	973
65°	673	704	760	766	764	666
75°	276	295	285	245	224	297
85°	29	26	20	17	16	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2565.4	2565.4	2565.4	2565.4	2565.4
2.5°	2573.6	2556.5	2565.4	2563.5	2557.0
5°	2561.2	2545.7	2555.8	2552.9	2554.6
7.5°	2541.0	2526.8	2537.5	2536.9	2539.8
10°	2513.2	2498.9	2512.0	2514.4	2517.9
12.5°	2476.4	2464.6	2480.6	2485.3	2492.4
15°	2433.6	2423.0	2441.4	2451.5	2459.2
17.5°	2383.8	2374.9	2398.6	2408.2	2418.8
20°	2326.3	2319.8	2347.6	2356.5	2372.0
22.5°	2262.3	2258.7	2287.7	2301.3	2319.2
25°	2191.6	2192.3	2226.6	2242.7	2261.6
27.5°	2117.5	2118.7	2157.9	2180.3	2200.5
30°	2037.4	2041.0	2083.7	2111.6	2138.3
32.5°	1952.6	1959.7	2006.0	2044.0	2073.6
35°	1866.6	1874.9	1926.0	1973.3	2007.2
37.5°	1773.5	1787.2	1844.7	1901.1	1936.0
40°	1682.2	1695.8	1760.4	1822.7	1858.4
42.5°	1587.9	1605.1	1673.9	1743.3	1777.6
45°	1489.4	1509.5	1584.9	1656.1	1693.4
47.5°	1395.0	1412.9	1492.3	1566.5	1605.1
50°	1291.2	1313.8	1396.2	1474.0	1512.0
52.5°	1192.2	1212.9	1297.8	1377.3	1411.7
55°	1090.2	1113.3	1197.6	1272.9	1297.2
57.5°	985.7	1013.7	1095.0	1157.9	1181.0
60°	882.0	909.8	986.4	1038.1	1055.2
62.5°	778.7	808.5	875.5	909.8	909.8
65°	673.2	703.5	760.4	766.3	763.9
67.5°	567.7	598.0	641.2	630.5	623.4
70°	465.0	491.1	516.7	497.0	480.5
72.5°	365.4	390.3	394.5	366.0	345.2
75°	276.4	294.8	285.3	245.0	223.7
77.5°	192.7	203.5	183.3	142.4	125.2
80°	121.0	125.7	98.5	69.4	58.1
82.5°	65.3	65.8	42.7	35.0	32.6
85°	29.1	26.1	19.5	17.2	15.5
87.5°	10.1	8.9	7.1	6.6	5.4
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	17.64	19.22	18.00	19.54	19.85	18.62	20.21	18.99	20.52	20.83
	3H	19.05	20.47	19.43	20.80	21.16	19.83	21.25	20.20	21.58	21.94
	4H	19.44	20.78	19.84	21.12	21.50	20.04	21.38	20.44	21.73	22.10
	6H	19.62	20.85	20.03	21.22	21.61	20.06	21.29	20.47	21.66	22.05
	8H	19.63	20.81	20.06	21.20	21.60	20.04	21.21	20.46	21.60	22.00
	12H	19.62	20.75	20.05	21.13	21.56	20.01	21.14	20.44	21.52	21.95
4H	2H	18.31	19.64	18.71	19.99	20.37	19.10	20.43	19.50	20.78	21.16
	3H	19.88	20.98	20.29	21.38	21.78	20.47	21.58	20.88	21.97	22.37
	4H	20.35	21.35	20.79	21.76	22.20	20.74	21.74	21.17	22.15	22.59
	6H	20.59	21.46	21.05	21.90	22.36	20.79	21.66	21.25	22.10	22.56
	8H	20.62	21.42	21.08	21.87	22.33	20.77	21.57	21.23	22.02	22.48
	12H	20.62	21.34	21.10	21.81	22.28	20.75	21.47	21.23	21.94	22.42
8H	4H	20.50	21.30	20.96	21.75	22.21	20.86	21.66	21.32	22.11	22.57
	6H	20.77	21.44	21.27	21.93	22.40	20.92	21.58	21.42	22.07	22.55
	8H	20.81	21.41	21.33	21.92	22.40	20.90	21.49	21.41	22.00	22.49
	12H	20.83	21.35	21.34	21.84	22.41	20.88	21.40	21.39	21.90	22.46
12H	4H	20.48	21.20	20.96	21.68	22.15	20.85	21.57	21.33	22.05	22.52
	6H	20.75	21.34	21.26	21.85	22.33	20.90	21.49	21.41	22.00	22.49
	8H	20.81	21.33	21.32	21.82	22.39	20.90	21.42	21.41	21.91	22.48