

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: P1498346

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498346
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-35-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

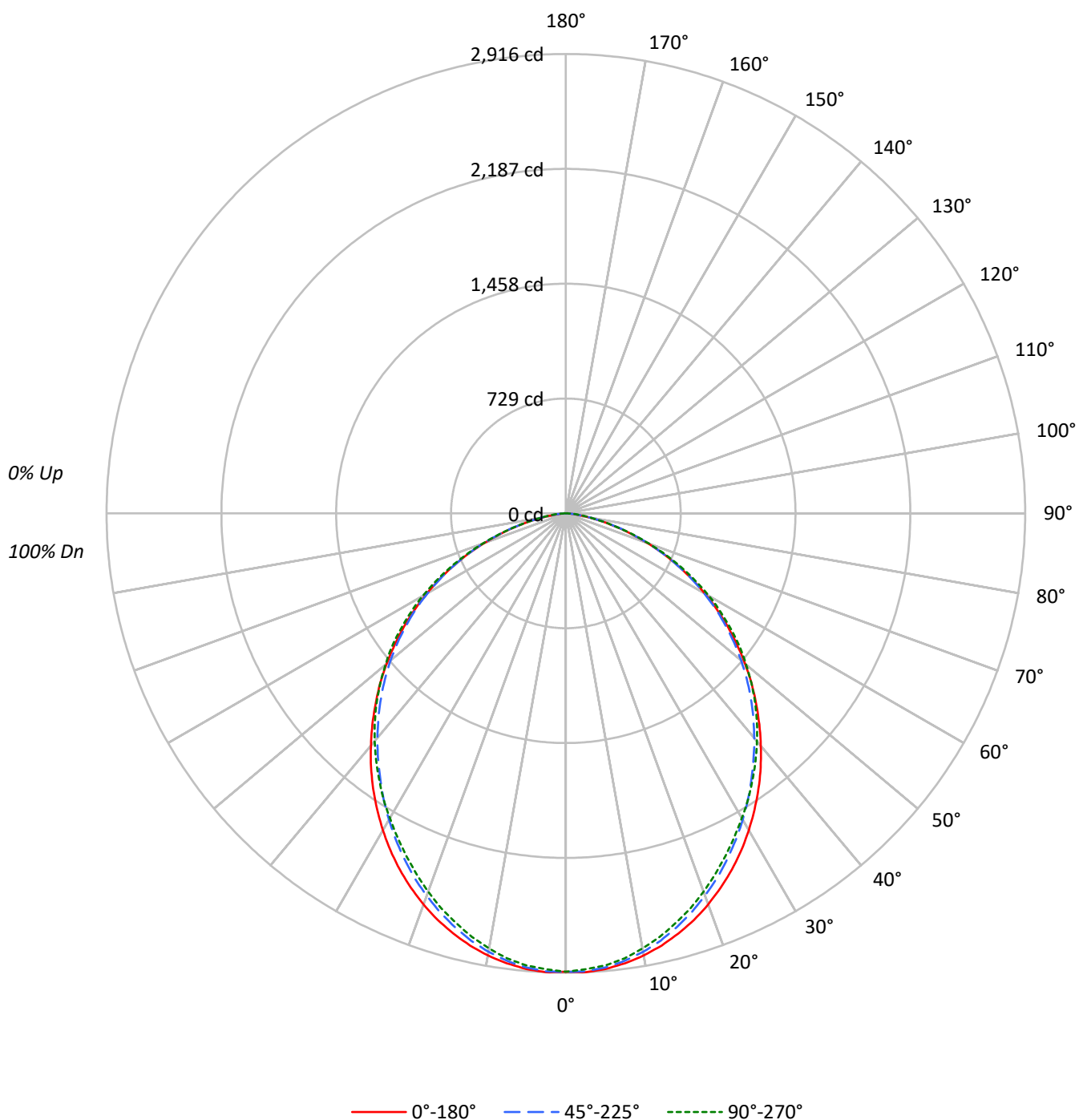
Lumens per Lamp: N/A
Luminaire Lumens: 7078.0 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 90.4
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	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	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°	7830	7830	7830
5°	7841	7816	7780
10°	7786	7722	7662
15°	7691	7576	7501
20°	7566	7395	7319
25°	7407	7195	7119
30°	7218	6977	6941
35°	7006	6750	6787
40°	6763	6536	6630
45°	6502	6318	6465
50°	6217	6080	6257
55°	5888	5800	5999
60°	5494	5451	5657
65°	4996	4988	5132
70°	4315	4360	4427
75°	3439	3539	3507
80°	2331	2469	2486
85°	1198	1655	2118

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6502 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.6	3.9
10°-20°	766.1	10.8
20°-30°	1119.9	15.8
30°-40°	1298.5	18.3
40°-50°	1295.9	18.3
50°-60°	1116.1	15.8
60°-70°	779.2	11.0
70°-80°	360.8	5.1
80°-90°	68.0	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°	2159.6	30.5
0°-40°	3458.1	48.9
0°-60°	5870.0	82.9
0°-90°	7078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7078.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2910	2910	2910	2910	2910	
5°	2903	2892	2893	2876	2880	275
15°	2761	2741	2719	2691	2692	778
25°	2494	2466	2423	2395	2398	1148
35°	2133	2095	2055	2053	2066	1333
45°	1708	1675	1660	1682	1699	1318
55°	1255	1229	1236	1266	1279	1121
65°	785	772	783	798	806	776
75°	331	327	340	338	337	356
85°	39	44	54	64	69	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2909.6	2909.6	2909.6	2909.6	2909.6
2.5°	2915.5	2906.1	2909.6	2896.7	2896.0
5°	2902.8	2892.4	2893.3	2876.4	2880.2
7.5°	2880.5	2868.3	2864.8	2845.7	2849.2
10°	2849.5	2834.5	2826.0	2802.4	2804.2
12.5°	2809.8	2792.8	2778.1	2750.8	2753.9
15°	2760.6	2741.4	2719.4	2690.7	2692.4
17.5°	2706.1	2685.2	2654.5	2624.0	2628.7
20°	2641.9	2618.8	2582.5	2550.9	2555.8
22.5°	2570.7	2544.4	2506.6	2475.1	2477.6
25°	2494.5	2465.5	2423.2	2394.6	2397.8
27.5°	2411.8	2379.5	2336.3	2310.6	2316.1
30°	2323.0	2289.0	2245.3	2225.9	2233.8
32.5°	2229.4	2194.6	2152.0	2141.4	2153.4
35°	2132.7	2095.4	2054.8	2052.6	2065.9
37.5°	2031.9	1995.2	1958.5	1964.7	1978.5
40°	1925.3	1890.8	1860.7	1872.4	1887.3
42.5°	1817.9	1784.8	1761.5	1779.1	1795.2
45°	1708.5	1675.4	1660.1	1681.7	1698.9
47.5°	1599.6	1566.4	1558.0	1583.1	1598.5
50°	1485.0	1455.2	1452.4	1479.7	1494.7
52.5°	1369.3	1341.8	1345.3	1374.8	1393.3
55°	1255.1	1229.4	1236.2	1265.6	1278.7
57.5°	1137.6	1117.2	1126.4	1152.8	1165.7
60°	1020.8	1001.9	1012.8	1038.2	1051.1
62.5°	902.6	886.0	899.1	920.6	929.1
65°	784.6	772.1	783.4	797.6	806.0
67.5°	668.4	656.6	669.4	683.2	686.4
70°	548.4	540.8	554.1	562.5	562.7
72.5°	437.9	430.6	443.4	447.0	445.0
75°	330.8	326.8	340.4	338.2	337.3
77.5°	233.4	234.9	242.4	240.9	240.6
80°	150.4	155.7	159.3	161.3	160.4
82.5°	84.6	89.5	94.6	106.0	110.5
85°	38.8	43.7	53.6	64.3	68.6
87.5°	13.1	16.9	22.5	24.2	23.0
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	18.08	19.66	18.44	19.97	20.29	18.29	19.87	18.65	20.19	20.50
	3H	19.54	20.97	19.92	21.29	21.65	19.76	21.18	20.14	21.51	21.87
	4H	19.97	21.31	20.37	21.65	22.03	20.18	21.52	20.58	21.87	22.24
	6H	20.18	21.41	20.59	21.78	22.17	20.39	21.63	20.80	21.99	22.38
	8H	20.20	21.38	20.63	21.77	22.17	20.44	21.62	20.86	22.01	22.41
	12H	20.20	21.33	20.63	21.71	22.14	20.47	21.60	20.90	21.98	22.41
4H	2H	18.63	19.97	19.03	20.32	20.70	18.81	20.14	19.20	20.49	20.87
	3H	20.28	21.39	20.69	21.79	22.19	20.46	21.58	20.87	21.97	22.38
	4H	20.79	21.79	21.22	22.20	22.64	20.98	21.98	21.41	22.39	22.83
	6H	21.07	21.94	21.53	22.39	22.84	21.27	22.14	21.72	22.58	23.04
	8H	21.12	21.93	21.58	22.37	22.84	21.34	22.15	21.80	22.59	23.06
	12H	21.13	21.86	21.61	22.34	22.81	21.39	22.12	21.87	22.60	23.07
8H	4H	20.98	21.79	21.44	22.23	22.70	21.15	21.96	21.61	22.40	22.87
	6H	21.32	21.99	21.81	22.48	22.96	21.50	22.17	21.99	22.66	23.14
	8H	21.39	21.99	21.90	22.50	22.99	21.60	22.21	22.12	22.71	23.20
	12H	21.43	21.96	21.93	22.45	23.01	21.70	22.23	22.21	22.72	23.28
12H	4H	20.98	21.70	21.46	22.18	22.65	21.14	21.87	21.63	22.35	22.82
	6H	21.32	21.92	21.83	22.43	22.92	21.50	22.10	22.01	22.61	23.09
	8H	21.43	21.96	21.93	22.45	23.01	21.64	22.17	22.15	22.66	23.22