

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: P1498823

Luminaire Tested: MAE-G-2-120-3STD-HI-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498823
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-2-120-3STD-HI-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

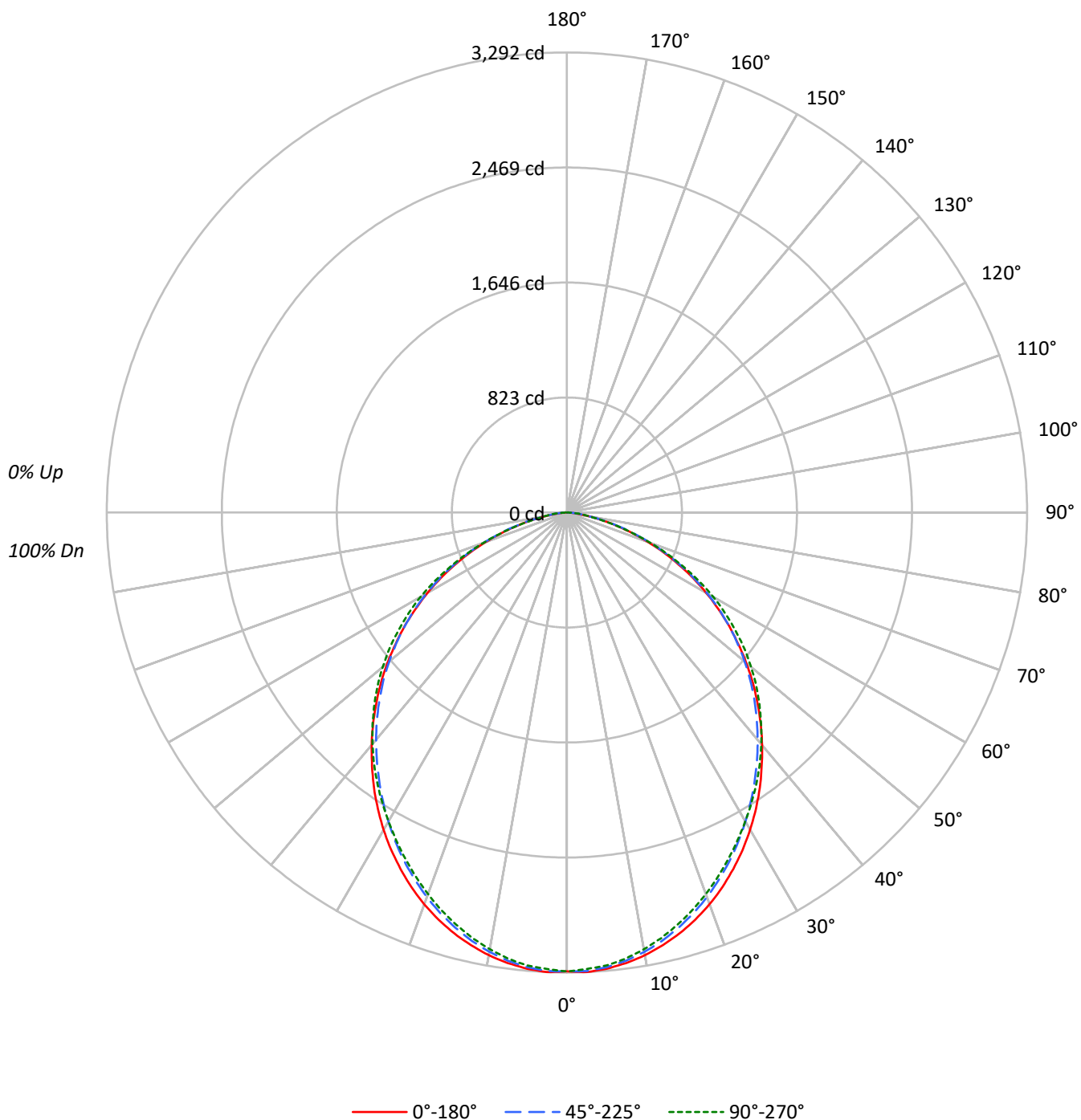
Lumens per Lamp: N/A
Luminaire Lumens: 8044.0 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 97.5
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		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	44	39	51	44	38		50	43	38		48
8	62	49	41	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	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8837	8837	8837
5°	8852	8822	8789
10°	8791	8724	8672
15°	8686	8572	8510
20°	8545	8388	8322
25°	8359	8175	8118
30°	8147	7936	7929
35°	7906	7694	7768
40°	7633	7458	7599
45°	7337	7218	7414
50°	7013	6949	7200
55°	6647	6640	6901
60°	6194	6248	6518
65°	5632	5727	5871
70°	4857	5003	5013
75°	3866	4024	3844
80°	2614	2718	2624
85°	1352	1769	2201

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7414 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.0	3.8
10°-20°	866.9	10.8
20°-30°	1270.7	15.8
30°-40°	1476.5	18.4
40°-50°	1477.1	18.4
50°-60°	1274.7	15.8
60°-70°	889.5	11.1
70°-80°	406.0	5.0
80°-90°	73.6	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°	2446.6	30.4
0°-40°	3923.1	48.8
0°-60°	6675.0	83.0
0°-90°	8044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8044.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3284	3284	3284	3284	3284	
5°	3277	3264	3266	3249	3254	311
15°	3118	3097	3077	3051	3055	879
25°	2815	2786	2753	2726	2734	1296
35°	2407	2370	2342	2345	2365	1504
45°	1928	1899	1897	1927	1948	1487
55°	1417	1394	1415	1456	1471	1265
65°	884	876	900	918	922	874
75°	372	372	387	378	370	399
85°	44	48	57	67	71	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3283.8	3283.8	3283.8	3283.8	3283.8
2.5°	3291.7	3279.4	3283.8	3270.6	3269.2
5°	3277.1	3264.0	3266.0	3249.1	3253.8
7.5°	3251.7	3237.3	3234.9	3215.9	3220.0
10°	3217.3	3199.9	3192.8	3170.6	3173.5
12.5°	3171.6	3153.0	3140.3	3114.5	3119.2
15°	3117.7	3096.8	3077.0	3050.6	3054.6
17.5°	3055.3	3031.7	3007.6	2977.3	2984.2
20°	2983.8	2957.8	2929.0	2897.2	2905.9
22.5°	2903.6	2875.6	2843.2	2813.6	2821.9
25°	2815.3	2786.2	2753.2	2725.5	2734.2
27.5°	2722.4	2689.9	2655.8	2633.8	2643.6
30°	2621.9	2587.8	2553.9	2537.5	2551.9
32.5°	2515.7	2481.4	2449.7	2442.6	2459.6
35°	2406.6	2370.2	2342.0	2344.7	2364.6
37.5°	2289.3	2257.4	2233.8	2246.2	2266.3
40°	2172.9	2139.8	2123.2	2142.0	2163.3
42.5°	2052.4	2022.2	2011.2	2037.6	2057.2
45°	1927.9	1899.0	1896.7	1926.8	1948.2
47.5°	1805.1	1776.0	1780.5	1814.1	1837.6
50°	1675.2	1649.9	1660.0	1698.8	1719.8
52.5°	1545.3	1521.3	1538.6	1579.9	1600.6
55°	1416.8	1394.2	1415.4	1456.0	1470.9
57.5°	1283.5	1267.7	1290.8	1327.1	1343.1
60°	1150.9	1136.6	1161.0	1195.9	1211.0
62.5°	1018.0	1007.0	1031.5	1061.1	1067.3
65°	884.5	875.5	899.5	917.8	922.0
67.5°	749.2	744.7	768.3	780.2	781.1
70°	617.3	611.8	635.9	642.3	637.2
72.5°	489.1	488.2	506.1	507.0	497.8
75°	371.8	371.8	387.0	378.2	369.7
77.5°	262.8	263.8	273.5	263.2	258.7
80°	168.7	173.6	175.4	172.3	169.3
82.5°	94.6	100.7	101.9	111.8	116.1
85°	43.8	48.1	57.3	67.2	71.3
87.5°	14.9	18.4	23.7	25.4	23.9
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	18.50	20.09	18.87	20.40	20.71	18.82	20.41	19.19	20.72	21.04
	3H	19.96	21.38	20.33	21.71	22.07	20.27	21.69	20.64	22.02	22.38
	4H	20.38	21.72	20.78	22.06	22.44	20.66	22.00	21.06	22.34	22.72
	6H	20.58	21.82	20.99	22.18	22.58	20.84	22.08	21.25	22.44	22.83
	8H	20.61	21.79	21.03	22.18	22.58	20.88	22.05	21.30	22.44	22.84
	12H	20.61	21.74	21.04	22.12	22.55	20.90	22.02	21.33	22.41	22.83
4H	2H	19.08	20.42	19.48	20.76	21.14	19.34	20.67	19.74	21.02	21.40
	3H	20.71	21.82	21.12	22.22	22.62	20.97	22.08	21.38	22.48	22.88
	4H	21.21	22.22	21.65	22.63	23.07	21.45	22.45	21.88	22.87	23.30
	6H	21.49	22.36	21.95	22.81	23.26	21.70	22.58	22.16	23.02	23.47
	8H	21.54	22.35	22.00	22.79	23.26	21.76	22.57	22.22	23.02	23.48
	12H	21.55	22.28	22.03	22.75	23.22	21.80	22.53	22.28	23.01	23.48
8H	4H	21.40	22.22	21.86	22.66	23.13	21.62	22.43	22.08	22.87	23.34
	6H	21.74	22.41	22.23	22.90	23.37	21.92	22.60	22.42	23.09	23.56
	8H	21.80	22.41	22.32	22.91	23.40	22.01	22.61	22.52	23.12	23.61
	12H	21.84	22.37	22.35	22.86	23.42	22.09	22.62	22.60	23.11	23.67
12H	4H	21.40	22.13	21.88	22.60	23.08	21.61	22.34	22.09	22.82	23.29
	6H	21.73	22.34	22.25	22.84	23.33	21.92	22.52	22.43	23.03	23.52
	8H	21.84	22.37	22.34	22.86	23.42	22.04	22.57	22.55	23.06	23.63

END OF REPORT