

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: P1499504

Luminaire Tested: MAE-G-4-120-3HI-HI-40-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499504
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-4-120-3HI-HI-40-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

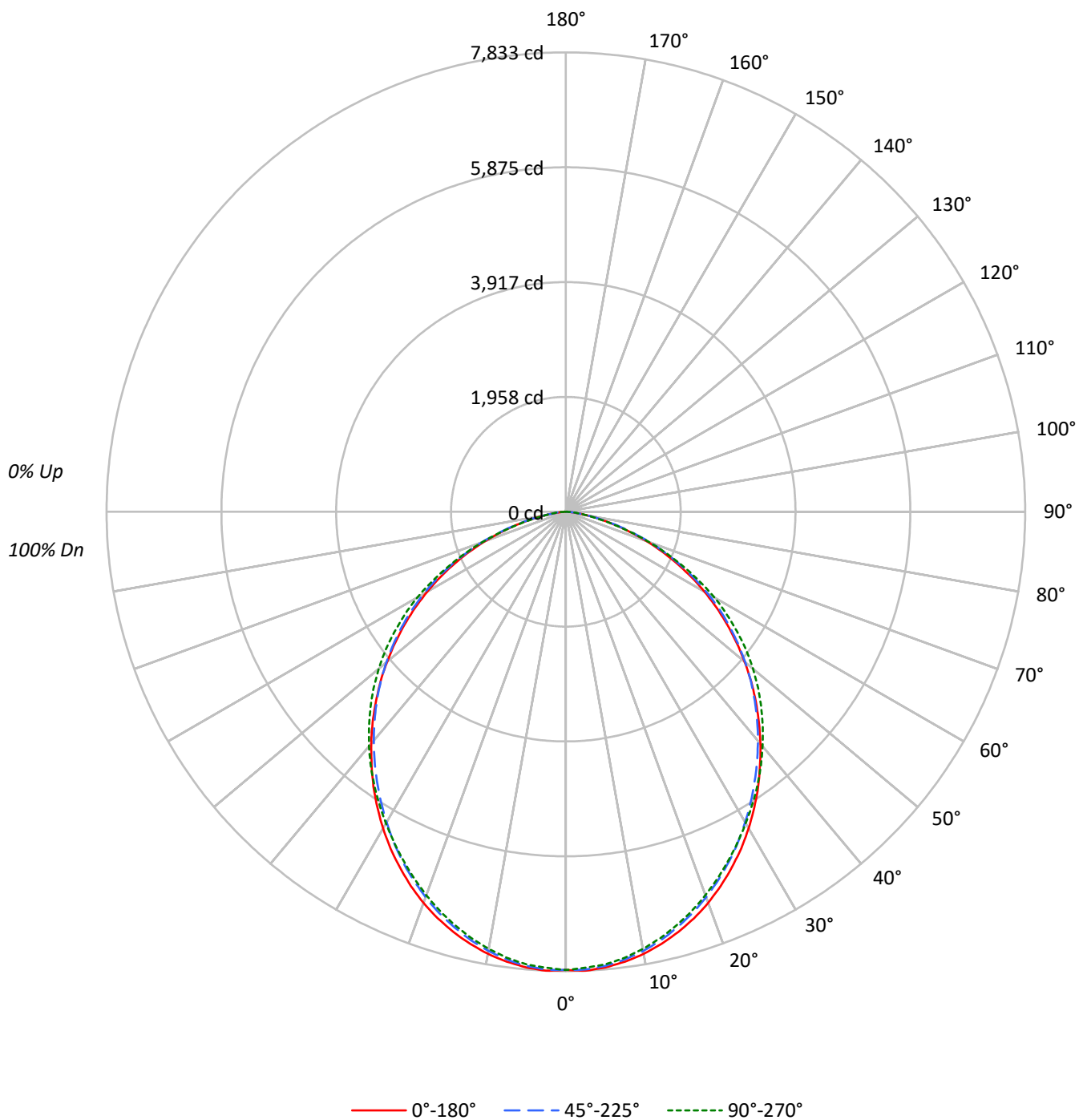
Lumens per Lamp: N/A
Luminaire Lumens: 19233.0 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 221.8
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	88	88	86
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10512	10512	10512
5°	10531	10498	10463
10°	10458	10389	10339
15°	10331	10221	10167
20°	10162	10015	9963
25°	9939	9774	9738
30°	9684	9500	9530
35°	9395	9221	9355
40°	9069	8950	9168
45°	8714	8672	8961
50°	8327	8358	8718
55°	7891	7993	8360
60°	7349	7526	7881
65°	6675	6893	7045
70°	5749	5986	5935
75°	4566	4748	4426
80°	3073	3103	2871
85°	1576	1937	2350

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8961 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.6	3.8
10°-20°	2067.3	10.7
20°-30°	3036.4	15.8
30°-40°	3535.7	18.4
40°-50°	3544.0	18.4
50°-60°	3063.0	15.9
60°-70°	2130.9	11.1
70°-80°	955.3	5.0
80°-90°	164.8	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°	5839.4	30.4
0°-40°	9375.0	48.7
0°-60°	15982.0	83.1
0°-90°	19233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19233.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7813	7813	7813	7813	7813	
5°	7797	7764	7773	7737	7747	740
15°	7417	7370	7337	7288	7299	2090
25°	6695	6636	6583	6534	6560	3082
35°	5720	5649	5614	5640	5695	3574
45°	4580	4530	4557	4650	4710	3534
55°	3364	3328	3407	3523	3564	3003
65°	2097	2092	2165	2205	2213	2072
75°	878	886	913	878	851	944
85°	102	109	126	144	152	151
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7813.0	7813.0	7813.0	7813.0	7813.0
2.5°	7832.7	7800.1	7813.0	7785.2	7779.5
5°	7797.4	7764.0	7772.6	7736.7	7747.1
7.5°	7736.9	7701.4	7701.0	7662.1	7671.6
10°	7654.6	7613.0	7604.2	7560.0	7567.4
12.5°	7545.4	7502.4	7483.3	7432.9	7445.5
15°	7416.9	7369.7	7337.3	7287.8	7299.2
17.5°	7268.1	7216.1	7177.0	7119.4	7138.1
20°	7097.2	7041.3	6994.6	6933.4	6958.0
22.5°	6905.7	6847.1	6793.5	6738.9	6763.7
25°	6694.9	6635.8	6583.4	6533.7	6559.7
27.5°	6473.3	6407.4	6354.9	6319.7	6348.4
30°	6233.4	6165.4	6114.8	6093.4	6134.3
32.5°	5980.1	5913.0	5868.5	5870.6	5917.8
35°	5720.1	5649.3	5614.0	5640.1	5695.2
37.5°	5440.4	5381.2	5357.8	5407.7	5463.6
40°	5163.2	5101.5	5095.5	5161.0	5219.9
42.5°	4876.5	4822.2	4829.5	4913.5	4968.3
45°	4579.7	4529.5	4557.4	4649.7	4709.6
47.5°	4288.2	4236.6	4280.1	4380.9	4445.6
50°	3978.1	3936.3	3992.8	4105.6	4164.8
52.5°	3670.2	3630.1	3702.0	3821.0	3878.1
55°	3363.7	3327.6	3407.4	3522.8	3564.0
57.5°	3046.5	3026.3	3108.7	3209.8	3252.7
60°	2730.8	2713.7	2796.8	2890.3	2928.6
62.5°	2414.8	2405.4	2484.2	2559.6	2572.2
65°	2096.6	2091.5	2165.2	2205.0	2212.7
67.5°	1774.9	1778.8	1845.7	1865.5	1864.3
70°	1461.3	1461.3	1521.7	1526.0	1508.6
72.5°	1156.4	1165.4	1203.8	1193.4	1165.6
75°	878.4	886.5	913.3	877.8	851.4
77.5°	619.8	626.5	637.6	598.8	582.2
80°	396.6	408.7	400.5	381.8	370.5
82.5°	221.4	233.9	226.6	243.4	251.1
85°	102.1	109.4	125.5	144.5	152.2
87.5°	34.8	41.4	51.4	54.8	51.2
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	19.10	20.69	19.47	21.00	21.32	19.52	21.11	19.89	21.42	21.74
	3H	20.55	21.98	20.93	22.30	22.66	20.93	22.35	21.31	22.68	23.04
	4H	20.97	22.31	21.37	22.65	23.03	21.29	22.63	21.69	22.98	23.36
	6H	21.17	22.41	21.58	22.77	23.16	21.45	22.68	21.86	23.05	23.44
	8H	21.19	22.37	21.62	22.76	23.16	21.47	22.65	21.89	23.04	23.44
	12H	21.19	22.32	21.62	22.70	23.13	21.48	22.61	21.91	22.99	23.42
4H	2H	19.69	21.03	20.09	21.38	21.76	20.03	21.37	20.43	21.72	22.10
	3H	21.31	22.42	21.72	22.82	23.22	21.62	22.73	22.03	23.13	23.53
	4H	21.82	22.82	22.25	23.23	23.67	22.07	23.07	22.50	23.49	23.92
	6H	22.09	22.96	22.55	23.40	23.86	22.29	23.16	22.75	23.60	24.06
	8H	22.13	22.94	22.59	23.38	23.85	22.33	23.14	22.79	23.58	24.05
	12H	22.14	22.87	22.62	23.34	23.81	22.36	23.08	22.84	23.56	24.03
8H	4H	22.00	22.81	22.46	23.25	23.72	22.23	23.04	22.69	23.49	23.95
	6H	22.32	22.99	22.82	23.48	23.96	22.50	23.17	22.99	23.65	24.13
	8H	22.39	22.99	22.90	23.50	23.98	22.56	23.16	23.07	23.67	24.16
	12H	22.42	22.95	22.93	23.44	24.00	22.62	23.15	23.13	23.64	24.20
12H	4H	21.99	22.72	22.48	23.20	23.67	22.23	22.95	22.71	23.43	23.90
	6H	22.32	22.92	22.83	23.43	23.91	22.49	23.09	23.00	23.60	24.08
	8H	22.41	22.94	22.92	23.43	24.00	22.59	23.12	23.09	23.61	24.17