

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: P1499213

Luminaire Tested: MAE-G-4-120-2HI-HI-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499213
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-4-120-2HI-HI-40-90-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

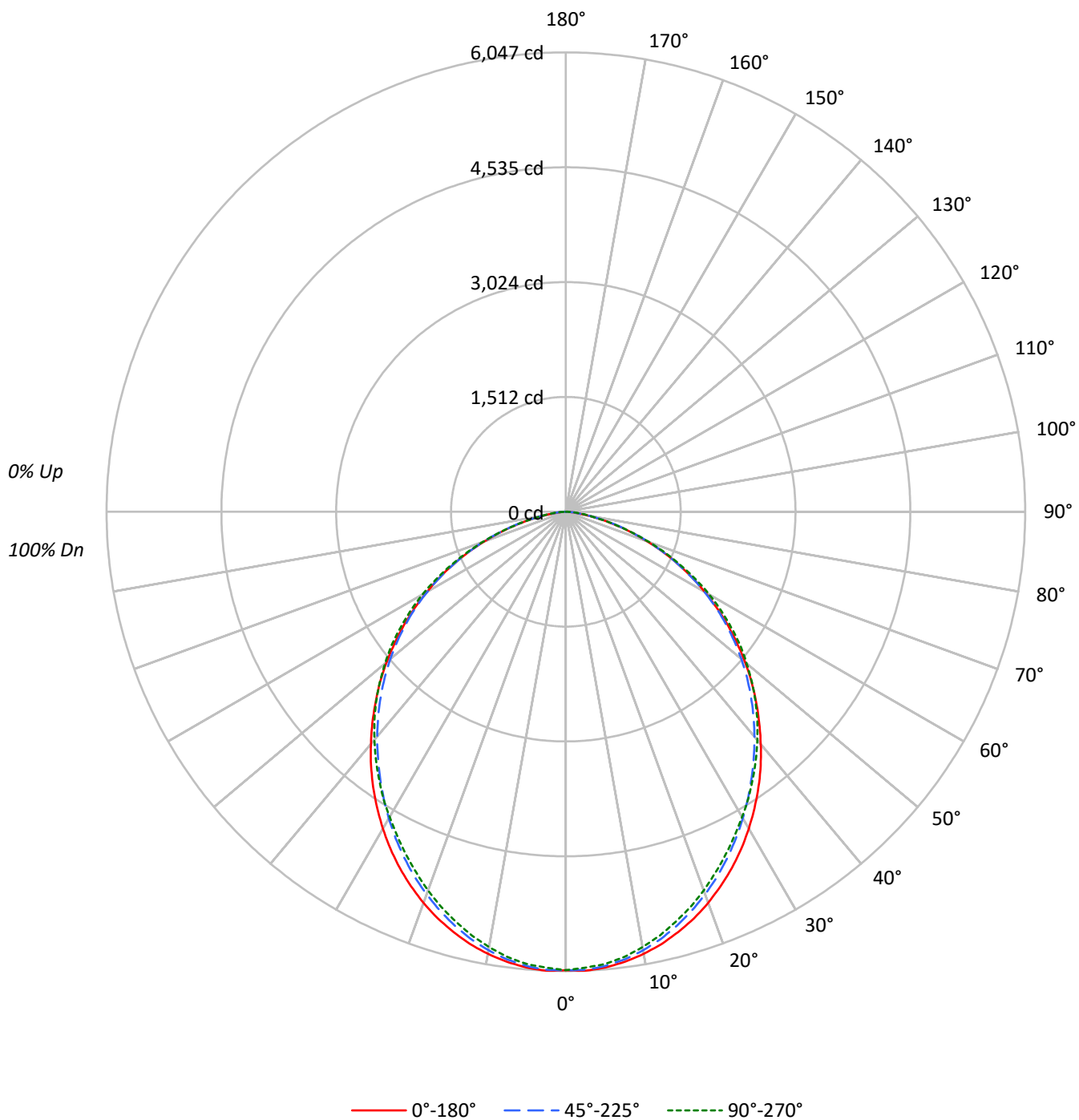
Lumens per Lamp: N/A
Luminaire Lumens: 14688.0 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 177.5
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	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	85
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	61
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	41
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	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	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8119	8119	8119
5°	8131	8105	8069
10°	8074	8009	7948
15°	7975	7858	7782
20°	7845	7673	7596
25°	7680	7465	7390
30°	7484	7240	7207
35°	7264	7006	7048
40°	7012	6785	6887
45°	6741	6559	6718
50°	6445	6314	6504
55°	6104	6023	6236
60°	5695	5662	5878
65°	5178	5180	5328
70°	4471	4523	4587
75°	3563	3666	3622
80°	2413	2546	2553
85°	1240	1701	2171

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6741 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.5	3.9
10°-20°	1589.3	10.8
20°-30°	2323.8	15.8
30°-40°	2695.1	18.3
40°-50°	2690.4	18.3
50°-60°	2317.5	15.8
60°-70°	1617.3	11.0
70°-80°	747.1	5.1
80°-90°	140.1	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°	4480.5	30.5
0°-40°	7175.6	48.9
0°-60°	12183.6	82.9
0°-90°	14688.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14688.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6034	6034	6034	6034	6034	
5°	6020	5998	6001	5966	5974	571
15°	5725	5685	5641	5583	5587	1614
25°	5173	5114	5029	4971	4978	2381
35°	4422	4347	4265	4263	4291	2764
45°	3542	3476	3447	3494	3530	2733
55°	2602	2551	2568	2630	2658	2324
65°	1626	1602	1627	1656	1673	1609
75°	685	678	705	699	697	737
85°	80	90	110	132	141	119
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6034.3	6034.3	6034.3	6034.3	6034.3
2.5°	6046.6	6026.9	6034.3	6007.9	6006.2
5°	6020.2	5998.4	6000.7	5966.0	5973.9
7.5°	5973.9	5948.6	5941.9	5902.7	5910.0
10°	5909.6	5878.6	5861.7	5813.6	5817.4
12.5°	5827.4	5792.1	5762.7	5707.2	5713.7
15°	5725.0	5685.4	5641.3	5583.1	5586.7
17.5°	5612.3	5569.2	5507.2	5445.4	5455.4
20°	5478.8	5431.6	5358.5	5294.2	5304.8
22.5°	5331.0	5277.4	5201.2	5137.4	5143.2
25°	5173.0	5113.8	5028.6	4970.8	4978.0
27.5°	5001.5	4935.6	4848.7	4797.1	4809.1
30°	4817.2	4748.0	4660.2	4621.9	4638.9
32.5°	4623.2	4552.3	4467.0	4446.8	4472.2
35°	4422.4	4346.7	4265.3	4262.9	4291.2
37.5°	4213.3	4139.0	4065.7	4080.7	4110.0
40°	3992.0	3922.3	3862.9	3889.5	3921.1
42.5°	3769.5	3702.5	3657.4	3696.1	3730.3
45°	3542.5	3475.8	3447.0	3494.0	3530.5
47.5°	3316.7	3249.6	3235.4	3289.5	3322.4
50°	3079.0	3019.1	3016.4	3075.1	3107.0
52.5°	2839.2	2783.8	2794.0	2857.1	2896.3
55°	2602.2	2550.7	2567.6	2630.3	2658.2
57.5°	2358.7	2317.9	2339.8	2395.7	2423.2
60°	2116.2	2078.6	2103.9	2157.4	2184.3
62.5°	1871.1	1838.5	1867.5	1912.4	1929.8
65°	1626.5	1602.0	1627.1	1655.9	1673.4
67.5°	1385.6	1362.4	1389.9	1417.7	1424.0
70°	1136.6	1122.2	1149.8	1166.2	1166.1
72.5°	907.5	893.4	919.6	925.8	921.1
75°	685.4	677.9	705.1	699.1	696.7
77.5°	483.5	487.1	501.4	497.0	495.8
80°	311.4	322.3	328.6	331.8	329.5
82.5°	175.0	185.1	194.6	217.6	226.7
85°	80.3	90.1	110.2	131.7	140.6
87.5°	27.1	34.9	46.3	49.7	47.2
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	18.20	19.79	18.57	20.10	20.41	18.43	20.01	18.79	20.32	20.64
	3H	19.67	21.09	20.04	21.42	21.78	19.89	21.32	20.27	21.64	22.01
	4H	20.09	21.43	20.49	21.78	22.16	20.31	21.65	20.71	21.99	22.37
	6H	20.30	21.54	20.71	21.90	22.29	20.52	21.75	20.93	22.12	22.51
	8H	20.33	21.51	20.75	21.90	22.30	20.56	21.74	20.99	22.13	22.53
	12H	20.33	21.45	20.76	21.84	22.26	20.59	21.72	21.02	22.10	22.53
4H	2H	18.76	20.10	19.16	20.45	20.82	18.94	20.28	19.34	20.63	21.01
	3H	20.40	21.52	20.81	21.91	22.31	20.60	21.71	21.01	22.11	22.51
	4H	20.91	21.91	21.35	22.33	22.77	21.10	22.10	21.53	22.52	22.96
	6H	21.20	22.07	21.65	22.51	22.97	21.39	22.26	21.85	22.70	23.16
	8H	21.24	22.06	21.70	22.50	22.97	21.46	22.27	21.92	22.71	23.18
	12H	21.26	21.98	21.74	22.46	22.93	21.51	22.24	21.99	22.71	23.18
8H	4H	21.10	21.91	21.56	22.36	22.82	21.27	22.09	21.74	22.53	23.00
	6H	21.44	22.11	21.94	22.60	23.08	21.62	22.29	22.11	22.78	23.26
	8H	21.51	22.11	22.03	22.62	23.11	21.72	22.32	22.23	22.83	23.32
	12H	21.55	22.08	22.06	22.57	23.13	21.81	22.34	22.32	22.84	23.40
12H	4H	21.10	21.83	21.58	22.31	22.78	21.27	22.00	21.75	22.48	22.95
	6H	21.44	22.05	21.96	22.55	23.04	21.62	22.22	22.13	22.73	23.21
	8H	21.55	22.08	22.06	22.57	23.13	21.76	22.29	22.26	22.78	23.34