

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: P1499261

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499261
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-STD-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

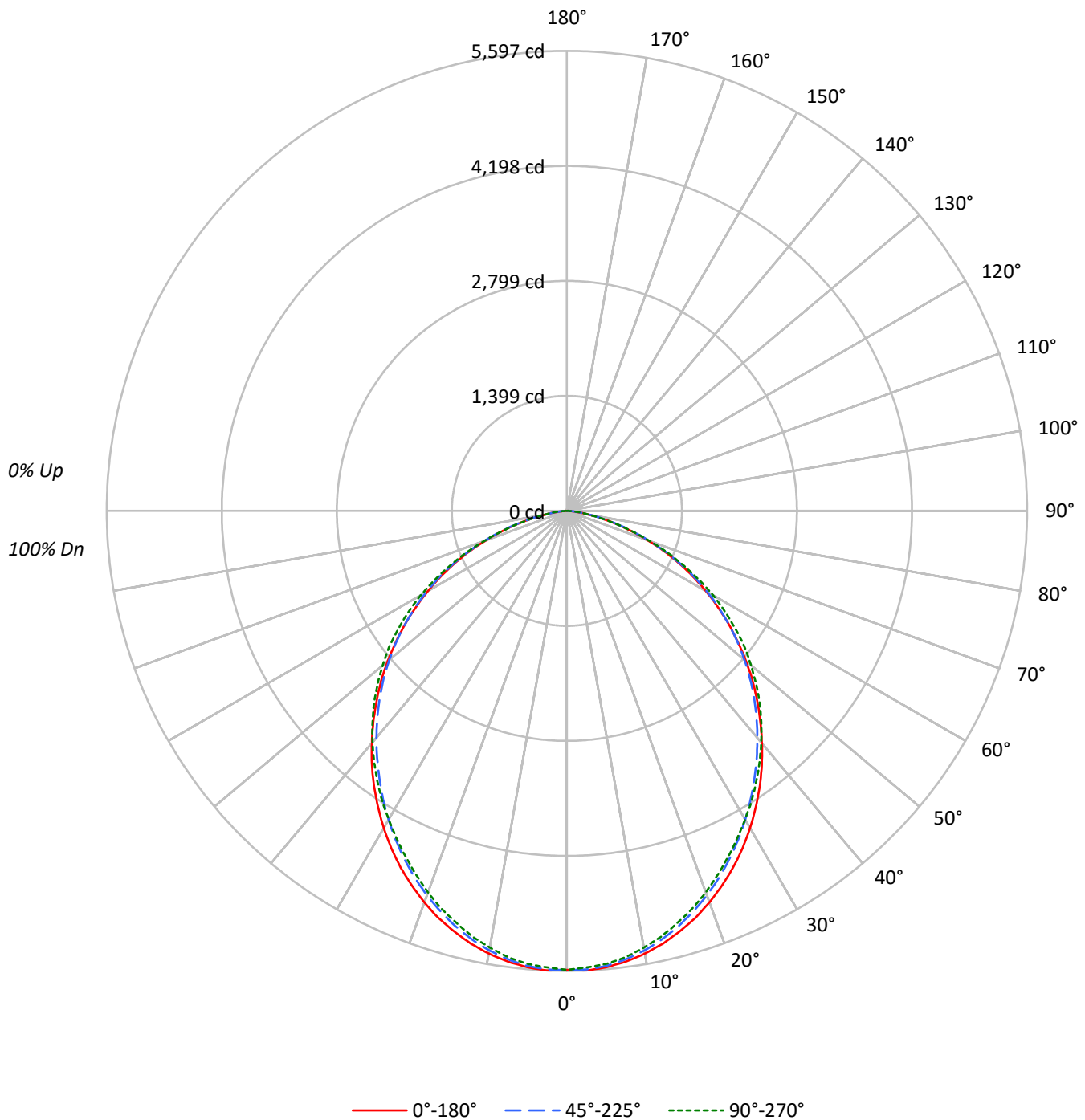
Lumens per Lamp: N/A
Luminaire Lumens: 13654.0 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 157.1
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	88	86
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72	67	64	62
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53	47	43	41
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7514	7514	7514
5°	7526	7503	7472
10°	7472	7419	7371
15°	7379	7288	7231
20°	7258	7125	7071
25°	7104	6941	6892
30°	6921	6740	6734
35°	6716	6528	6598
40°	6481	6329	6458
45°	6229	6125	6311
50°	5954	5902	6119
55°	5637	5635	5870
60°	5257	5300	5522
65°	4776	4845	4968
70°	4118	4205	4223
75°	3276	3363	3255
80°	2208	2269	2197
85°	1122	1460	1829

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6311 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.5	3.8
10°-20°	1473.9	10.8
20°-30°	2159.2	15.8
30°-40°	2509.1	18.4
40°-50°	2509.3	18.4
50°-60°	2164.4	15.9
60°-70°	1505.9	11.0
70°-80°	684.0	5.0
80°-90°	122.8	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°	4158.6	30.5
0°-40°	6667.7	48.8
0°-60°	11341.4	83.1
0°-90°	13654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13654.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5585	5585	5585	5585	5585	
5°	5572	5550	5555	5526	5532	529
15°	5298	5263	5232	5186	5191	1493
25°	4785	4737	4675	4633	4642	2202
35°	4089	4030	3974	3986	4017	2556
45°	3274	3224	3219	3277	3316	2525
55°	2403	2367	2402	2473	2502	2146
65°	1500	1488	1522	1545	1561	1484
75°	630	628	647	632	626	678
85°	73	80	95	112	118	109
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5584.8	5584.8	5584.8	5584.8	5584.8
2.5°	5596.7	5576.4	5584.8	5562.9	5559.7
5°	5572.0	5550.4	5555.0	5525.8	5532.5
7.5°	5529.1	5504.8	5502.3	5470.1	5476.8
10°	5469.2	5440.4	5430.2	5391.2	5395.0
12.5°	5392.9	5361.0	5341.3	5297.0	5303.8
15°	5297.6	5262.7	5231.7	5186.5	5191.0
17.5°	5193.1	5156.2	5110.6	5063.2	5073.9
20°	5068.9	5029.6	4975.9	4926.3	4938.3
22.5°	4931.7	4887.6	4832.5	4784.0	4792.2
25°	4785.3	4737.3	4675.1	4632.7	4642.4
27.5°	4626.0	4572.8	4510.8	4474.3	4488.8
30°	4455.0	4399.7	4337.9	4314.3	4334.1
32.5°	4274.9	4219.2	4160.0	4154.2	4182.3
35°	4088.8	4029.5	3974.4	3985.5	4016.7
37.5°	3895.3	3837.3	3790.6	3818.2	3850.7
40°	3689.9	3636.9	3603.6	3642.3	3676.8
42.5°	3483.8	3433.5	3413.7	3463.7	3501.2
45°	3273.5	3223.8	3219.1	3276.6	3316.5
47.5°	3065.0	3014.3	3022.8	3087.1	3122.9
50°	2844.3	2800.9	2819.7	2887.7	2923.4
52.5°	2623.1	2583.1	2612.9	2684.8	2726.8
55°	2403.2	2367.3	2402.1	2472.7	2502.3
57.5°	2177.8	2151.5	2189.7	2251.4	2279.8
60°	1953.5	1929.8	1969.4	2025.6	2052.1
62.5°	1726.8	1707.3	1747.8	1792.0	1807.1
65°	1500.0	1488.1	1521.7	1545.4	1560.6
67.5°	1277.6	1265.5	1297.3	1317.3	1321.1
70°	1046.8	1042.5	1068.8	1076.9	1073.5
72.5°	835.5	829.3	850.1	847.2	839.5
75°	630.2	628.3	646.9	631.9	626.1
77.5°	443.6	450.2	454.6	441.5	436.8
80°	285.0	295.6	292.8	288.1	283.6
82.5°	159.4	167.4	169.3	186.2	193.0
85°	72.7	80.0	94.6	111.6	118.5
87.5°	24.6	30.7	39.5	42.1	39.8
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	17.93	19.52	18.30	19.83	20.14	18.25	19.83	18.61	20.15	20.46
	3H	19.39	20.82	19.77	21.14	21.50	19.68	21.10	20.06	21.43	21.79
	4H	19.81	21.15	20.21	21.50	21.88	20.07	21.40	20.47	21.75	22.13
	6H	20.02	21.25	20.43	21.62	22.01	20.24	21.48	20.66	21.85	22.24
	8H	20.04	21.22	20.47	21.61	22.01	20.28	21.46	20.70	21.85	22.25
	12H	20.04	21.17	20.47	21.55	21.98	20.30	21.42	20.73	21.81	22.24
4H	2H	18.50	19.84	18.90	20.19	20.57	18.76	20.10	19.16	20.45	20.82
	3H	20.14	21.25	20.55	21.65	22.05	20.37	21.48	20.78	21.88	22.28
	4H	20.64	21.64	21.08	22.06	22.50	20.85	21.85	21.28	22.26	22.70
	6H	20.92	21.79	21.38	22.23	22.69	21.10	21.97	21.55	22.41	22.87
	8H	20.96	21.78	21.43	22.22	22.69	21.15	21.96	21.61	22.41	22.87
	12H	20.97	21.70	21.46	22.18	22.65	21.19	21.92	21.67	22.39	22.86
8H	4H	20.82	21.64	21.29	22.08	22.55	21.01	21.82	21.47	22.27	22.73
	6H	21.16	21.83	21.65	22.32	22.79	21.31	21.98	21.81	22.47	22.95
	8H	21.22	21.82	21.74	22.33	22.82	21.40	22.00	21.91	22.51	22.99
	12H	21.26	21.79	21.77	22.28	22.84	21.47	22.00	21.98	22.49	23.05
12H	4H	20.82	21.55	21.30	22.03	22.50	21.01	21.73	21.49	22.21	22.68
	6H	21.15	21.76	21.67	22.26	22.75	21.31	21.91	21.82	22.42	22.91
	8H	21.25	21.78	21.76	22.27	22.84	21.43	21.96	21.93	22.45	23.01

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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