

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: P1499525

Luminaire Tested: MAE-G-4-120-3HI-LO-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499525
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-LO-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

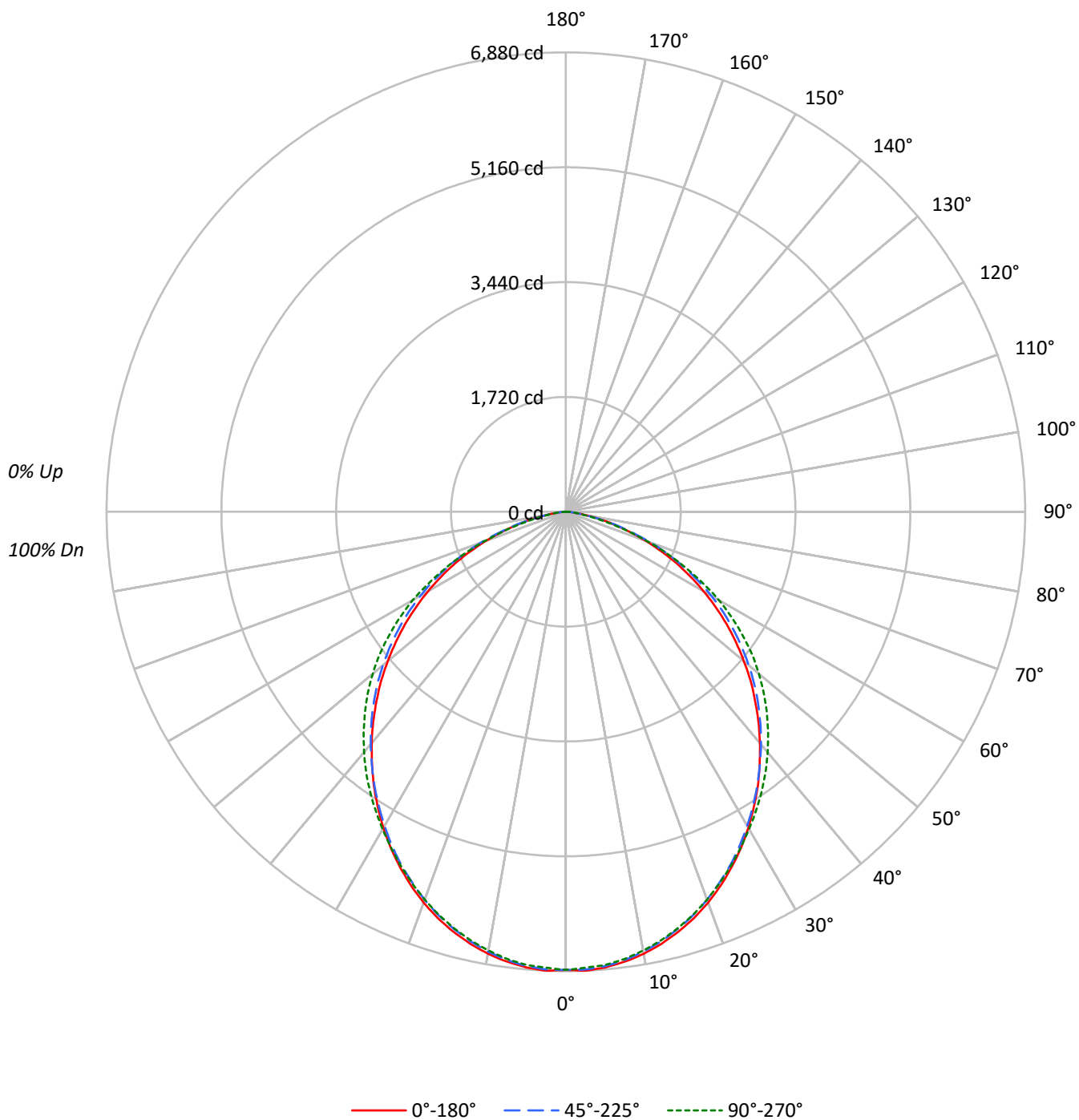
Lumens per Lamp: N/A
Luminaire Lumens: 17043.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 181.1
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	93	90		91	89	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	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	40
7	67	53	45	39	65	53	44	39	51	44	38		50	43	38		48	42	38	36
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44	38	34	32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9232	9232	9232
5°	9249	9223	9201
10°	9184	9140	9116
15°	9071	9012	9000
20°	8919	8855	8851
25°	8720	8662	8683
30°	8493	8440	8527
35°	8235	8209	8400
40°	7945	7985	8259
45°	7630	7753	8099
50°	7287	7486	7904
55°	6902	7171	7586
60°	6421	6759	7127
65°	5822	6183	6284
70°	5000	5312	5164
75°	3959	4107	3648
80°	2640	2515	2117
85°	1328	1426	1626

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8099 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.6	3.8
10°-20°	1823.0	10.7
20°-30°	2688.0	15.8
30°-40°	3141.6	18.4
40°-50°	3160.4	18.5
50°-60°	2738.6	16.1
60°-70°	1894.9	11.1
70°-80°	821.7	4.8
80°-90°	128.2	0.8
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°	5157.6	30.3
0°-40°	8299.2	48.7
0°-60°	14198.3	83.3
0°-90°	17043.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17043.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6861	6861	6861	6861	6861	
5°	6848	6815	6829	6804	6812	650
15°	6512	6474	6470	6448	6461	1835
25°	5874	5838	5835	5818	5849	2704
35°	5014	4977	4998	5053	5114	3132
45°	4010	3996	4075	4189	4256	3094
55°	2942	2939	3057	3189	3234	2626
65°	1829	1850	1942	1971	1974	1808
75°	762	782	790	735	702	818
85°	86	88	92	102	105	129
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6861.1	6861.1	6861.1	6861.1	6861.1
2.5°	6879.8	6845.9	6861.1	6842.7	6833.8
5°	6848.1	6815.1	6828.6	6804.4	6812.1
7.5°	6794.8	6761.5	6770.0	6745.9	6754.0
10°	6721.9	6684.8	6690.2	6665.2	6672.6
12.5°	6625.2	6589.3	6590.8	6564.0	6577.4
15°	6511.8	6474.4	6469.8	6447.9	6461.1
17.5°	6380.4	6341.4	6337.1	6309.9	6330.0
20°	6229.1	6189.8	6184.2	6154.3	6181.9
22.5°	6060.1	6021.5	6012.6	5990.5	6020.3
25°	5873.8	5838.3	5834.6	5817.6	5848.9
27.5°	5678.1	5639.0	5639.2	5636.1	5670.1
30°	5466.3	5427.8	5432.1	5441.9	5488.7
32.5°	5242.5	5207.5	5218.3	5250.8	5303.9
35°	5013.7	4977.4	4997.8	5052.6	5113.8
37.5°	4767.0	4742.2	4775.2	4851.8	4914.4
40°	4523.4	4497.0	4546.3	4637.3	4702.4
42.5°	4271.5	4252.5	4313.4	4421.4	4483.0
45°	4010.0	3995.9	4074.7	4189.3	4256.4
47.5°	3755.1	3738.3	3829.9	3952.2	4023.2
50°	3481.1	3474.2	3576.2	3708.7	3775.9
52.5°	3212.5	3205.0	3318.4	3456.2	3519.1
55°	2942.2	2939.2	3056.9	3188.9	3233.9
57.5°	2663.4	2674.0	2790.9	2904.0	2949.0
60°	2386.1	2398.5	2511.9	2611.2	2648.6
62.5°	2109.0	2127.7	2230.6	2304.7	2312.4
65°	1828.6	1850.4	1942.0	1971.0	1973.8
67.5°	1546.2	1573.5	1649.7	1652.9	1646.4
70°	1271.1	1292.5	1350.3	1336.8	1312.6
72.5°	1003.8	1029.7	1056.5	1026.8	992.8
75°	761.5	781.5	790.0	735.4	701.8
77.5°	535.4	548.3	538.5	481.4	457.2
80°	340.7	352.0	324.6	289.3	273.2
82.5°	188.3	196.4	173.0	176.9	179.7
85°	86.0	88.0	92.4	102.0	105.3
87.5°	29.5	32.5	37.1	38.7	35.6
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	18.65	20.24	19.02	20.55	20.86	19.25	20.83	19.62	21.15	21.46
	3H	20.09	21.51	20.46	21.84	22.20	20.59	22.01	20.97	22.34	22.70
	4H	20.50	21.83	20.90	22.18	22.56	20.90	22.24	21.30	22.59	22.97
	6H	20.69	21.92	21.10	22.29	22.68	21.01	22.24	21.42	22.61	23.00
	8H	20.71	21.89	21.14	22.28	22.68	21.01	22.19	21.44	22.58	22.98
	12H	20.71	21.83	21.14	22.21	22.64	21.01	22.13	21.44	22.52	22.94
4H	2H	19.27	20.60	19.66	20.95	21.33	19.75	21.09	20.15	21.43	21.81
	3H	20.87	21.98	21.28	22.38	22.78	21.27	22.38	21.68	22.77	23.18
	4H	21.36	22.36	21.80	22.78	23.21	21.66	22.65	22.09	23.07	23.51
	6H	21.63	22.49	22.08	22.94	23.39	21.81	22.68	22.27	23.12	23.58
	8H	21.66	22.47	22.12	22.91	23.38	21.83	22.64	22.29	23.08	23.55
	12H	21.67	22.39	22.15	22.87	23.34	21.84	22.56	22.32	23.04	23.51
8H	4H	21.53	22.34	22.00	22.79	23.25	21.80	22.61	22.26	23.05	23.52
	6H	21.84	22.51	22.34	23.00	23.48	21.99	22.66	22.49	23.15	23.63
	8H	21.90	22.50	22.41	23.01	23.49	22.03	22.62	22.54	23.13	23.62
	12H	21.93	22.45	22.44	22.94	23.51	22.06	22.58	22.56	23.07	23.64
12H	4H	21.53	22.25	22.01	22.73	23.20	21.80	22.52	22.28	23.00	23.47
	6H	21.83	22.43	22.34	22.94	23.42	21.98	22.58	22.49	23.09	23.57
	8H	21.92	22.44	22.42	22.93	23.50	22.04	22.57	22.55	23.06	23.62

END OF REPORT