

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: P1499405

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499405
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-4-120-2STD-HI-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

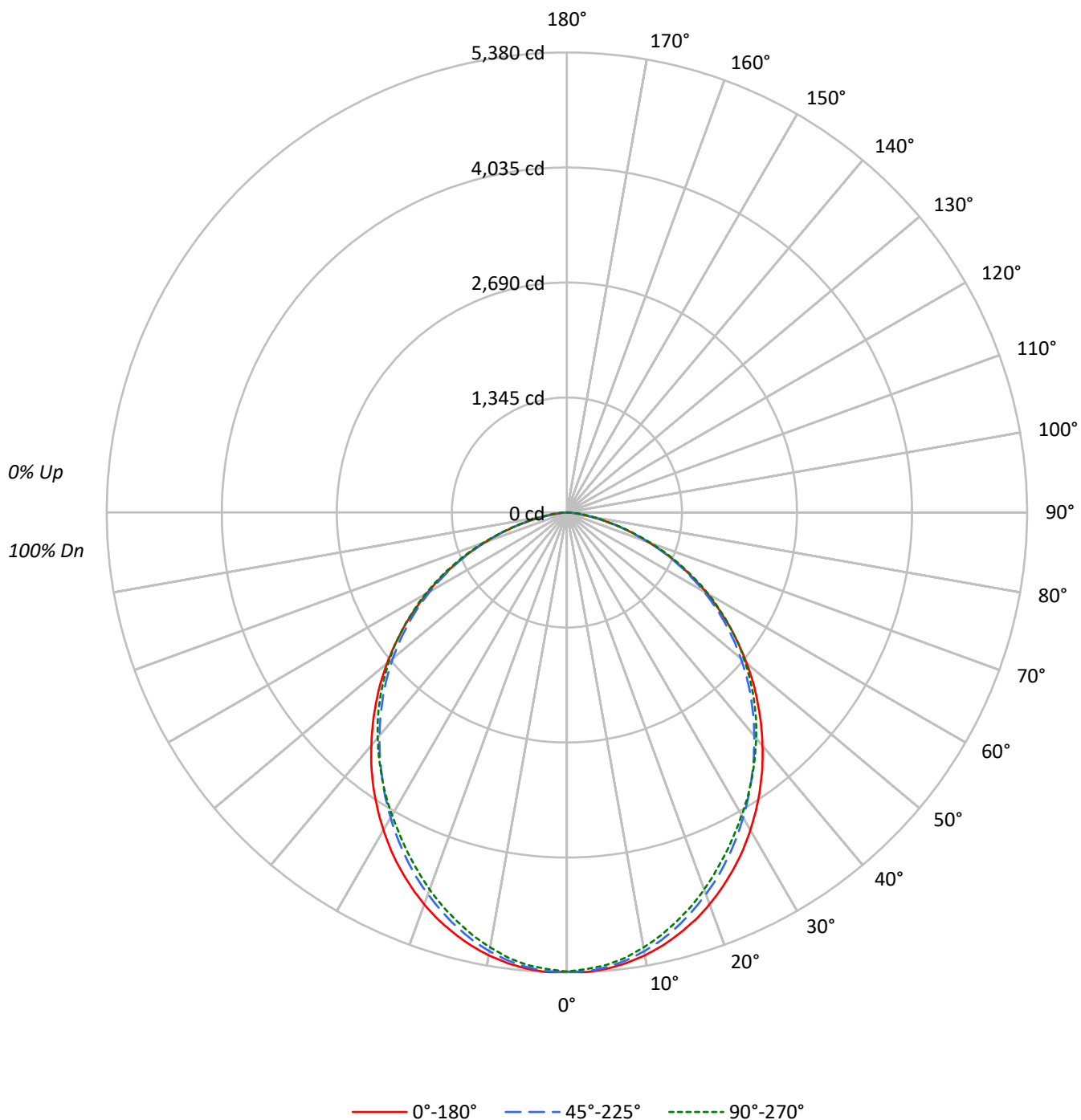
Lumens per Lamp: N/A
Luminaire Lumens: 13009.0 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 157.2
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	80	98	90	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	56		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	45	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7224	7224	7224
5°	7235	7210	7174
10°	7184	7119	7057
15°	7097	6977	6896
20°	6983	6803	6717
25°	6837	6611	6523
30°	6664	6404	6350
35°	6470	6190	6197
40°	6247	5987	6044
45°	6007	5781	5884
50°	5746	5559	5687
55°	5444	5299	5449
60°	5081	4978	5148
65°	4625	4559	4703
70°	3999	4006	4104
75°	3192	3291	3320
80°	2172	2353	2438
85°	1127	1627	2112

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6007 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.7	3.9
10°-20°	1411.1	10.8
20°-30°	2059.1	15.8
30°-40°	2383.3	18.3
40°-50°	2374.6	18.3
50°-60°	2042.6	15.7
60°-70°	1430.0	11.0
70°-80°	672.2	5.2
80°-90°	131.5	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°	3974.9	30.6
0°-40°	6358.2	48.9
0°-60°	10775.3	82.8
0°-90°	13009.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13009.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5369	5369	5369	5369	5369	
5°	5356	5338	5338	5304	5312	508
15°	5095	5058	5009	4948	4950	1436
25°	4605	4546	4453	4391	4394	2120
35°	3939	3861	3768	3753	3773	2462
45°	3157	3086	3038	3066	3092	2435
55°	2321	2263	2259	2302	2323	2072
65°	1453	1420	1432	1460	1477	1437
75°	614	602	633	637	639	661
85°	73	84	105	127	137	108
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5369.2	5369.2	5369.2	5369.2	5369.2
2.5°	5379.6	5364.2	5369.2	5343.2	5343.3
5°	5356.4	5338.4	5338.0	5304.2	5311.9
7.5°	5315.3	5293.6	5283.9	5245.0	5251.6
10°	5258.5	5231.0	5210.6	5162.2	5165.3
12.5°	5185.5	5153.4	5119.6	5063.3	5068.2
15°	5094.9	5058.0	5008.9	4948.5	4950.5
17.5°	4994.8	4953.5	4886.5	4821.8	4829.3
20°	4876.7	4830.3	4751.3	4684.2	4691.4
22.5°	4745.6	4692.4	4609.2	4541.8	4544.2
25°	4605.2	4545.8	4453.3	4390.8	4394.1
27.5°	4453.2	4386.8	4291.1	4233.8	4241.1
30°	4289.6	4219.3	4121.7	4075.8	4086.9
32.5°	4117.5	4044.5	3948.8	3918.1	3936.0
35°	3939.1	3861.1	3768.4	3752.9	3773.0
37.5°	3753.0	3676.2	3589.8	3589.4	3610.1
40°	3556.8	3483.2	3408.7	3418.3	3441.2
42.5°	3358.9	3287.6	3225.5	3245.7	3270.4
45°	3157.1	3085.8	3038.2	3066.0	3092.4
47.5°	2955.8	2884.6	2850.3	2884.3	2908.1
50°	2744.9	2679.6	2655.9	2694.5	2716.7
52.5°	2530.8	2470.3	2459.0	2501.7	2530.8
55°	2320.6	2263.0	2258.8	2302.1	2323.0
57.5°	2103.9	2056.1	2057.7	2097.6	2119.0
60°	1888.1	1843.5	1849.9	1890.7	1913.0
62.5°	1669.9	1630.1	1642.3	1679.5	1696.1
65°	1452.6	1419.9	1431.9	1460.5	1477.1
67.5°	1237.6	1207.7	1225.7	1256.2	1263.9
70°	1016.5	994.6	1018.4	1040.2	1043.3
72.5°	811.9	792.4	819.3	833.4	832.6
75°	614.0	602.2	633.1	637.2	638.7
77.5°	434.1	434.0	455.6	460.6	463.3
80°	280.3	289.5	303.7	314.2	314.6
82.5°	158.3	168.6	183.9	208.8	218.5
85°	73.0	83.6	105.4	127.4	136.8
87.5°	24.6	32.6	44.5	48.2	45.8
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	17.80	19.38	18.16	19.70	20.01	17.92	19.51	18.29	19.82	20.14
	3H	19.27	20.69	19.65	21.02	21.38	19.43	20.86	19.81	21.18	21.54
	4H	19.70	21.04	20.10	21.38	21.76	19.88	21.21	20.28	21.56	21.94
	6H	19.91	21.15	20.32	21.51	21.90	20.12	21.35	20.53	21.72	22.11
	8H	19.94	21.12	20.36	21.51	21.91	20.17	21.35	20.60	21.74	22.14
	12H	19.94	21.07	20.37	21.45	21.88	20.21	21.34	20.64	21.72	22.15
4H	2H	18.35	19.68	18.74	20.03	20.41	18.45	19.78	18.85	20.13	20.51
	3H	19.99	21.11	20.40	21.51	21.91	20.14	21.26	20.55	21.65	22.05
	4H	20.51	21.51	20.94	21.93	22.36	20.69	21.69	21.12	22.10	22.54
	6H	20.80	21.67	21.26	22.11	22.57	21.01	21.88	21.47	22.32	22.78
	8H	20.85	21.66	21.31	22.10	22.57	21.10	21.91	21.56	22.35	22.82
	12H	20.86	21.59	21.34	22.07	22.54	21.16	21.89	21.64	22.37	22.84
8H	4H	20.70	21.52	21.17	21.96	22.43	20.86	21.68	21.33	22.12	22.59
	6H	21.05	21.73	21.55	22.22	22.69	21.26	21.93	21.75	22.42	22.89
	8H	21.13	21.73	21.64	22.24	22.73	21.38	21.98	21.89	22.49	22.98
	12H	21.17	21.70	21.68	22.19	22.75	21.49	22.02	22.00	22.51	23.08
12H	4H	20.71	21.44	21.19	21.91	22.38	20.86	21.59	21.34	22.07	22.54
	6H	21.06	21.66	21.57	22.17	22.66	21.25	21.86	21.77	22.37	22.85
	8H	21.17	21.70	21.68	22.19	22.76	21.42	21.95	21.93	22.44	23.00