

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: P1499693

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499693
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-4-120-3STD-HI-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

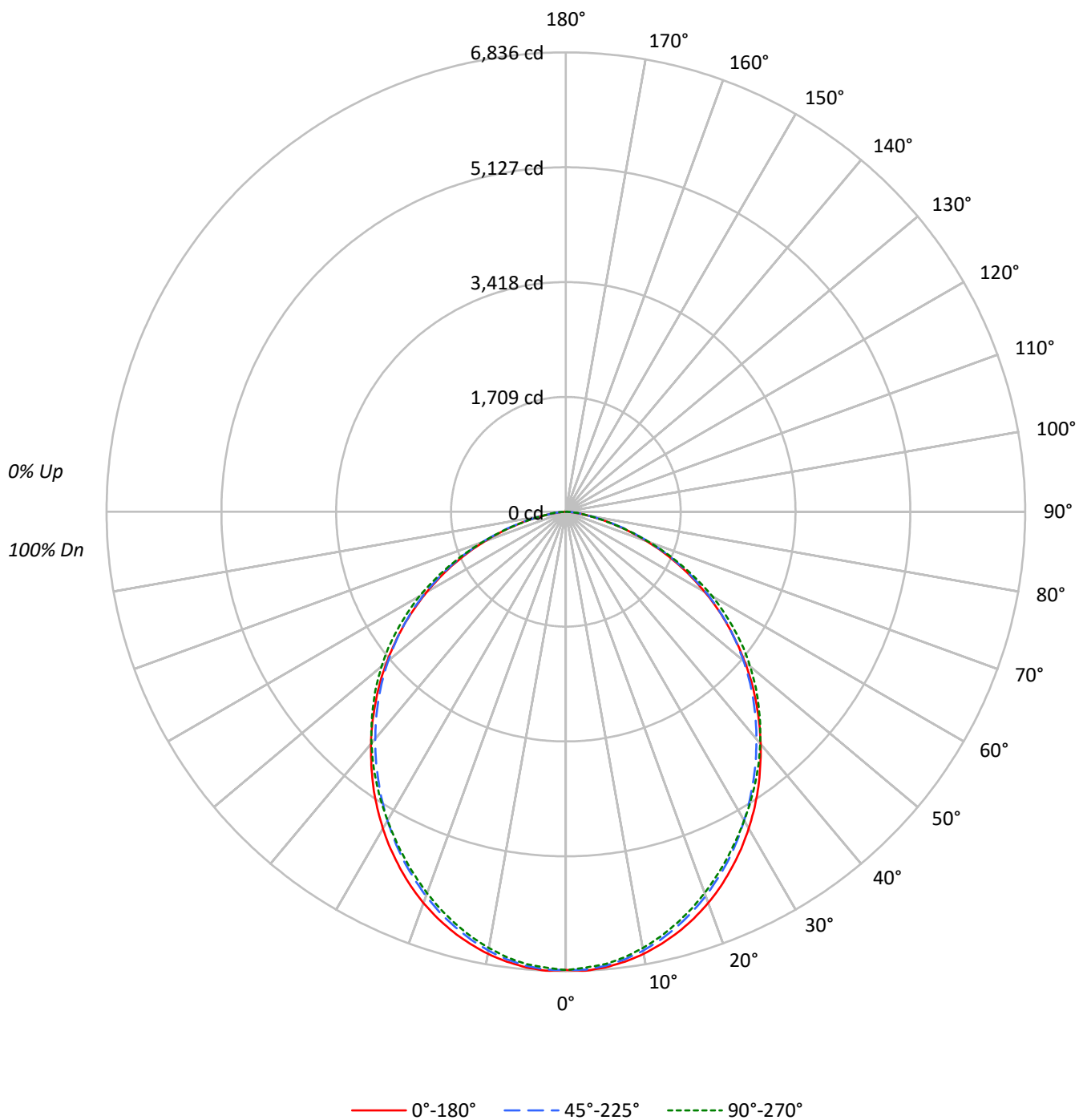
Lumens per Lamp: N/A
Luminaire Lumens: 16714.0 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 191.3
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	81	98	91	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	57		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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9175	9175	9175
5°	9191	9161	9127
10°	9128	9060	9006
15°	9018	8903	8840
20°	8872	8713	8647
25°	8679	8493	8438
30°	8458	8246	8243
35°	8208	7996	8077
40°	7924	7752	7904
45°	7616	7504	7713
50°	7280	7225	7492
55°	6900	6905	7181
60°	6429	6498	6781
65°	5845	5955	6102
70°	5040	5199	5203
75°	4010	4173	3976
80°	2710	2807	2696
85°	1403	1820	2257

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7713 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	641.7	3.8
10°-20°	1800.8	10.8
20°-30°	2640.0	15.8
30°-40°	3068.6	18.4
40°-50°	3070.4	18.4
50°-60°	2650.3	15.9
60°-70°	1848.6	11.1
70°-80°	842.0	5.0
80°-90°	151.7	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°	5082.5	30.4
0°-40°	8151.1	48.8
0°-60°	13871.8	83.0
0°-90°	16714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16714.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6819	6819	6819	6819	6819	
5°	6805	6778	6782	6748	6757	646
15°	6474	6431	6391	6338	6346	1824
25°	5846	5786	5721	5665	5684	2692
35°	4997	4923	4868	4876	4918	3122
45°	4003	3945	3943	4008	4054	3088
55°	2941	2896	2944	3030	3061	2626
65°	1836	1819	1871	1908	1917	1814
75°	771	772	803	783	765	829
85°	91	99	118	138	146	134
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6819.2	6819.2	6819.2	6819.2	6819.2
2.5°	6835.6	6809.7	6819.2	6792.0	6788.9
5°	6805.2	6777.7	6782.4	6747.7	6757.4
7.5°	6752.5	6722.5	6717.9	6679.2	6687.6
10°	6680.9	6644.9	6631.0	6585.9	6591.9
12.5°	6586.0	6547.6	6522.2	6470.0	6479.9
15°	6474.1	6430.9	6391.4	6338.1	6346.5
17.5°	6344.5	6296.0	6247.8	6186.4	6201.0
20°	6195.9	6142.6	6085.1	6020.4	6039.1
22.5°	6029.3	5972.0	5907.2	5847.3	5865.2
25°	5845.8	5786.5	5720.8	5664.9	5683.5
27.5°	5652.9	5586.5	5518.8	5475.0	5495.9
30°	5444.1	5374.7	5307.5	5275.3	5305.9
32.5°	5223.7	5153.8	5091.4	5078.7	5114.4
35°	4996.9	4922.9	4867.9	4875.6	4917.6
37.5°	4753.3	4688.8	4643.1	4671.2	4713.6
40°	4511.5	4444.5	4413.5	4454.8	4499.9
42.5°	4261.3	4200.4	4181.0	4238.1	4279.6
45°	4002.7	3944.7	3943.4	4008.1	4053.5
47.5°	3747.7	3689.2	3701.9	3774.0	3823.8
50°	3477.9	3427.3	3451.8	3534.5	3579.0
52.5°	3208.3	3160.2	3199.2	3287.4	3331.2
55°	2941.3	2896.2	2943.5	3029.7	3061.4
57.5°	2664.6	2633.6	2684.5	2761.3	2795.2
60°	2389.1	2361.2	2414.7	2488.1	2519.8
62.5°	2113.1	2092.1	2145.1	2207.1	2219.7
65°	1835.8	1819.0	1870.6	1908.2	1916.7
67.5°	1555.0	1547.2	1597.2	1621.3	1622.8
70°	1281.1	1271.0	1321.5	1333.5	1322.5
72.5°	1014.9	1014.1	1051.0	1051.6	1031.8
75°	771.4	772.3	802.8	782.9	764.8
77.5°	545.2	547.7	566.6	543.6	533.6
80°	349.7	359.9	362.3	355.0	348.0
82.5°	196.1	208.4	210.1	229.8	238.4
85°	90.9	99.3	117.9	137.9	146.2
87.5°	30.9	37.9	48.7	52.3	49.1
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	18.63	20.22	19.00	20.53	20.85	18.97	20.55	19.33	20.86	21.18
	3H	20.09	21.51	20.46	21.84	22.20	20.40	21.83	20.78	22.16	22.52
	4H	20.51	21.84	20.91	22.19	22.57	20.79	22.13	21.19	22.48	22.86
	6H	20.71	21.95	21.12	22.31	22.70	20.97	22.21	21.38	22.57	22.96
	8H	20.74	21.92	21.16	22.31	22.70	21.00	22.18	21.43	22.57	22.97
	12H	20.74	21.86	21.17	22.25	22.67	21.02	22.15	21.45	22.53	22.96
4H	2H	19.21	20.55	19.61	20.90	21.27	19.48	20.82	19.88	21.16	21.54
	3H	20.84	21.95	21.25	22.35	22.75	21.11	22.22	21.52	22.62	23.02
	4H	21.34	22.35	21.78	22.76	23.20	21.58	22.58	22.01	23.00	23.43
	6H	21.62	22.49	22.08	22.94	23.39	21.83	22.70	22.29	23.14	23.60
	8H	21.67	22.48	22.13	22.92	23.39	21.89	22.70	22.35	23.14	23.61
	12H	21.68	22.40	22.16	22.88	23.35	21.93	22.65	22.41	23.13	23.60
8H	4H	21.53	22.35	21.99	22.79	23.25	21.75	22.56	22.21	23.00	23.47
	6H	21.87	22.54	22.36	23.03	23.50	22.05	22.72	22.55	23.21	23.69
	8H	21.93	22.53	22.44	23.04	23.53	22.13	22.74	22.65	23.24	23.73
	12H	21.97	22.50	22.48	22.99	23.55	22.21	22.74	22.72	23.23	23.79
12H	4H	21.53	22.26	22.01	22.73	23.20	21.74	22.47	22.23	22.95	23.42
	6H	21.86	22.46	22.37	22.97	23.46	22.05	22.65	22.56	23.16	23.64
	8H	21.96	22.49	22.47	22.98	23.55	22.16	22.69	22.67	23.19	23.75

END OF REPORT