

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: P1499393

Luminaire Tested: MAE-G-4-120-2STD-HI-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499393
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-30-90-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

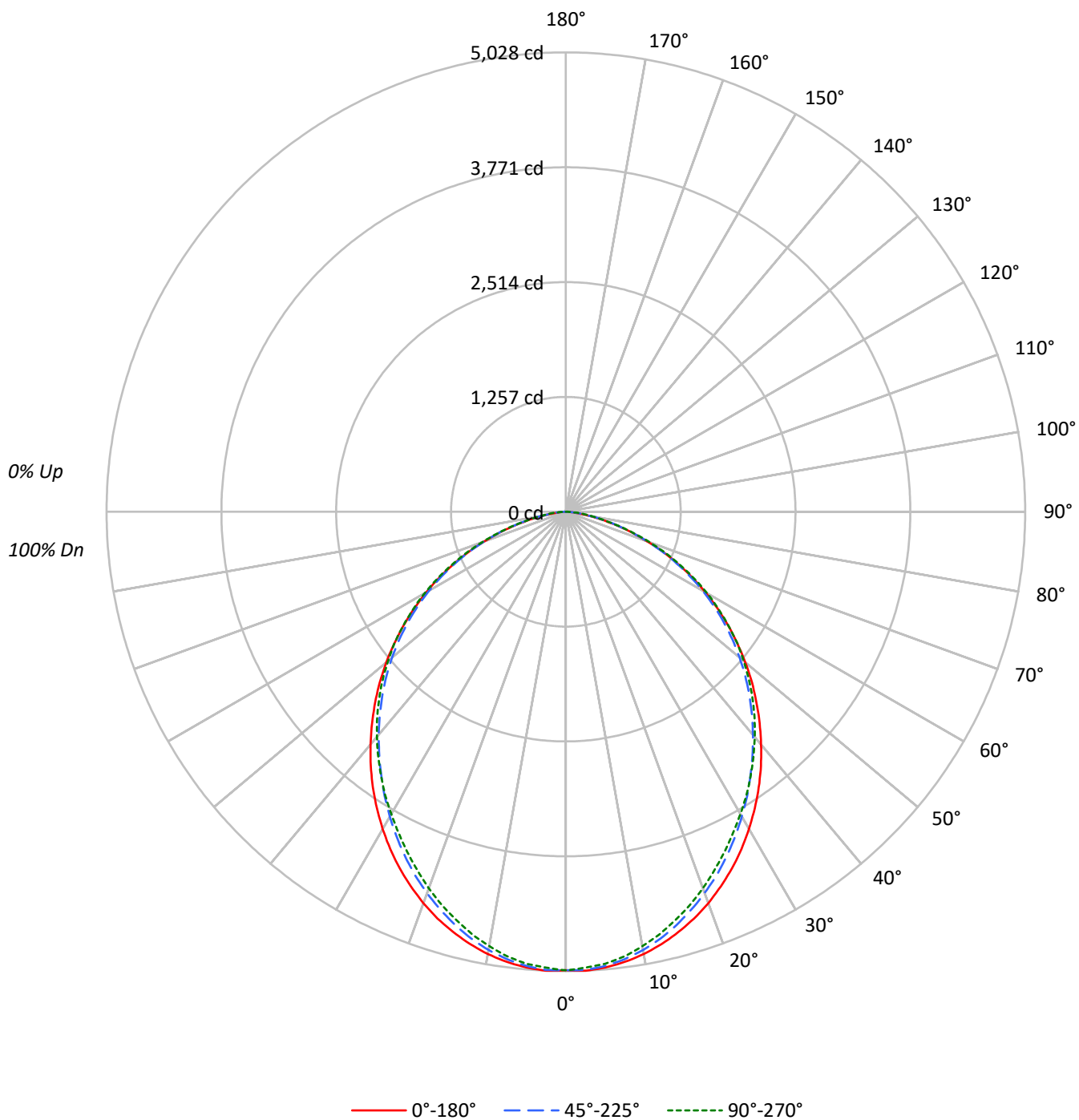
Lumens per Lamp: N/A
Luminaire Lumens: 12160.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	6753	6753	6753
5°	6762	6739	6706
10°	6716	6654	6597
15°	6634	6522	6446
20°	6527	6359	6279
25°	6391	6180	6098
30°	6230	5986	5935
35°	6048	5786	5793
40°	5840	5596	5650
45°	5615	5404	5500
50°	5371	5197	5315
55°	5088	4953	5094
60°	4749	4653	4812
65°	4323	4261	4396
70°	3738	3745	3836
75°	2983	3076	3104
80°	2030	2200	2279
85°	1054	1522	1974

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5615 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.7	3.9
10°-20°	1319.0	10.8
20°-30°	1924.7	15.8
30°-40°	2227.8	18.3
40°-50°	2219.6	18.3
50°-60°	1909.3	15.7
60°-70°	1336.7	11.0
70°-80°	628.3	5.2
80°-90°	122.9	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°	3715.5	30.6
0°-40°	5943.2	48.9
0°-60°	10072.1	82.8
0°-90°	12160.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12160.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5019	5019	5019	5019	5019	
5°	5007	4990	4990	4958	4965	475
15°	4762	4728	4682	4626	4627	1342
25°	4305	4249	4163	4104	4107	1981
35°	3682	3609	3522	3508	3527	2301
45°	2951	2884	2840	2866	2890	2276
55°	2169	2115	2111	2152	2171	1937
65°	1358	1327	1338	1365	1381	1343
75°	574	563	592	596	597	617
85°	68	78	99	119	128	101
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5018.7	5018.7	5018.7	5018.7	5018.7
2.5°	5028.5	5014.1	5018.7	4994.5	4994.7
5°	5006.9	4990.0	4989.5	4958.0	4965.3
7.5°	4968.4	4948.2	4939.1	4902.7	4908.9
10°	4915.4	4889.6	4870.6	4825.4	4828.3
12.5°	4847.1	4817.2	4785.6	4732.9	4737.4
15°	4762.4	4727.9	4682.0	4625.5	4627.4
17.5°	4668.7	4630.2	4567.6	4507.2	4514.2
20°	4558.4	4515.1	4441.3	4378.5	4385.2
22.5°	4435.9	4386.2	4308.4	4245.4	4247.6
25°	4304.7	4249.1	4162.7	4104.3	4107.3
27.5°	4162.6	4100.6	4011.0	3957.5	3964.2
30°	4009.7	3943.9	3852.7	3809.7	3820.1
32.5°	3848.7	3780.6	3691.1	3662.4	3679.1
35°	3681.9	3609.1	3522.5	3508.0	3526.8
37.5°	3508.0	3436.3	3355.6	3355.1	3374.5
40°	3324.7	3256.0	3186.3	3195.2	3216.6
42.5°	3139.8	3073.0	3015.0	3033.9	3056.9
45°	2951.1	2884.3	2839.9	2865.9	2890.5
47.5°	2762.8	2696.3	2664.2	2696.1	2718.3
50°	2565.7	2504.8	2482.6	2518.6	2539.4
52.5°	2365.7	2309.0	2298.5	2338.4	2365.7
55°	2169.1	2115.3	2111.4	2151.9	2171.4
57.5°	1966.6	1921.8	1923.3	1960.8	1980.7
60°	1764.9	1723.2	1729.1	1767.3	1788.2
62.5°	1561.0	1523.7	1535.1	1569.9	1585.4
65°	1357.7	1327.2	1338.5	1365.2	1380.7
67.5°	1156.8	1129.0	1145.7	1174.2	1181.4
70°	950.1	929.6	951.9	972.3	975.2
72.5°	759.0	740.6	765.9	779.0	778.3
75°	573.9	562.9	591.7	595.7	597.0
77.5°	405.7	405.7	425.9	430.5	433.1
80°	262.0	270.7	283.9	293.7	294.1
82.5°	148.0	157.6	171.9	195.1	204.3
85°	68.3	78.2	98.6	119.1	127.9
87.5°	23.0	30.5	41.6	45.0	42.9
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	17.56	19.15	17.93	19.46	19.78	17.69	19.27	18.05	19.59	19.90
	3H	19.03	20.46	19.41	20.79	21.15	19.20	20.62	19.57	20.95	21.31
	4H	19.46	20.80	19.86	21.15	21.53	19.64	20.98	20.04	21.33	21.71
	6H	19.68	20.91	20.09	21.28	21.67	19.88	21.12	20.29	21.48	21.88
	8H	19.70	20.88	20.13	21.27	21.67	19.94	21.12	20.37	21.51	21.91
	12H	19.70	20.83	20.13	21.21	21.64	19.98	21.11	20.41	21.49	21.92
4H	2H	18.11	19.45	18.51	19.80	20.17	18.21	19.55	18.61	19.90	20.28
	3H	19.76	20.87	20.17	21.27	21.67	19.91	21.02	20.32	21.42	21.82
	4H	20.27	21.28	20.71	21.69	22.13	20.45	21.45	20.88	21.87	22.30
	6H	20.57	21.44	21.02	21.88	22.34	20.78	21.65	21.23	22.09	22.55
	8H	20.61	21.43	21.07	21.87	22.34	20.86	21.68	21.32	22.12	22.59
	12H	20.63	21.36	21.11	21.83	22.30	20.93	21.66	21.41	22.13	22.60
8H	4H	20.47	21.28	20.93	21.73	22.19	20.63	21.44	21.09	21.89	22.35
	6H	20.82	21.49	21.32	21.98	22.46	21.02	21.69	21.52	22.18	22.66
	8H	20.89	21.50	21.41	22.01	22.49	21.15	21.75	21.66	22.26	22.74
	12H	20.93	21.47	21.44	21.96	22.52	21.26	21.79	21.76	22.28	22.84
12H	4H	20.47	21.20	20.95	21.68	22.15	20.63	21.36	21.11	21.83	22.30
	6H	20.82	21.43	21.34	21.94	22.42	21.02	21.62	21.53	22.13	22.62
	8H	20.94	21.47	21.44	21.96	22.52	21.18	21.72	21.69	22.21	22.77