

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: P1498517

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498517
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-2-120-2STD-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

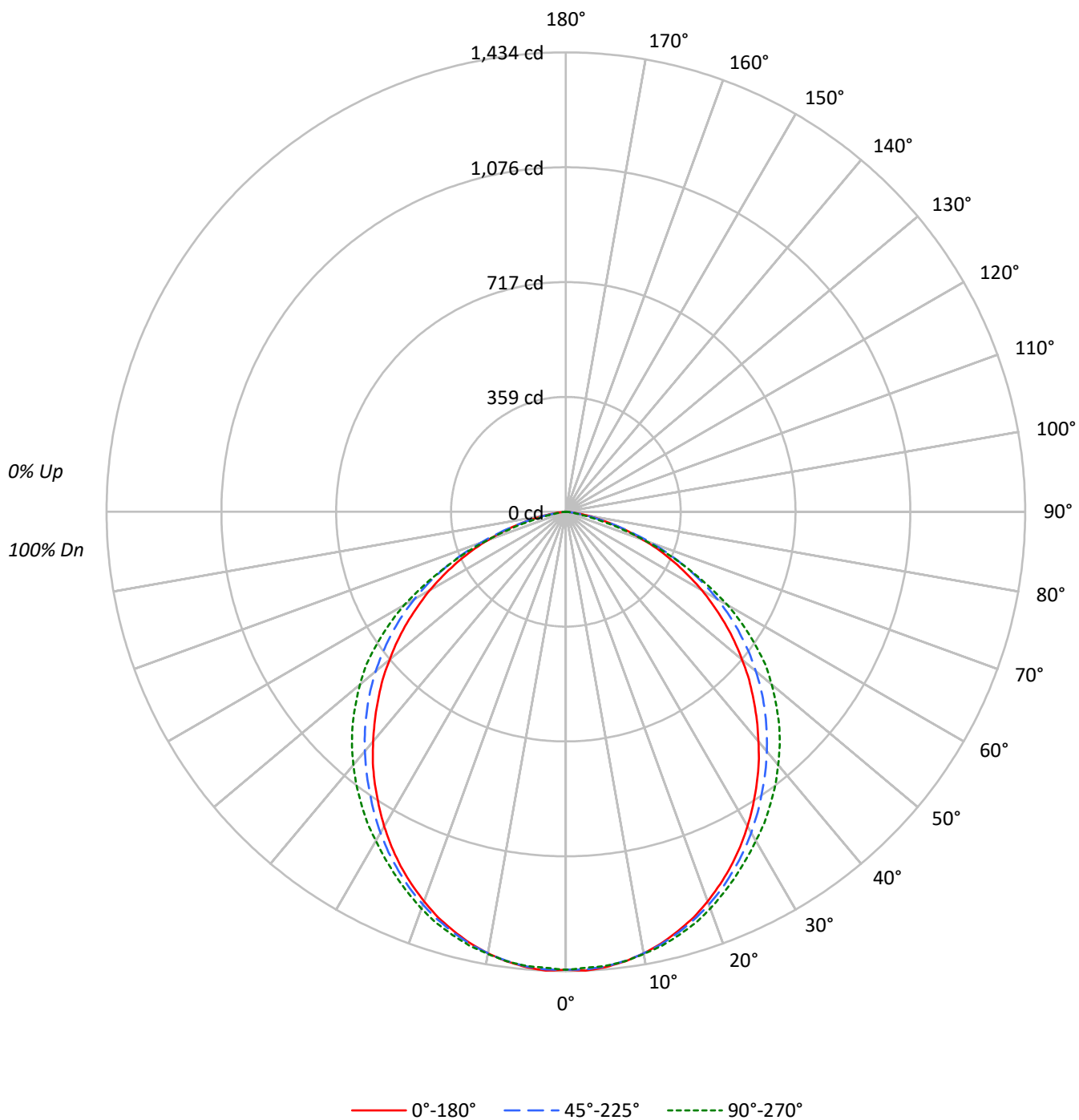
Lumens per Lamp: N/A
Luminaire Lumens: 3609.0 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	102	98	107	103	100	97	99	96	93	95	93	91	92	90	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	64	64	62
4	84	73	64	58	82	71	64	58	69	62	57	67	61	56	65	59	55	55	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3847	3847	3847
5°	3854	3848	3844
10°	3825	3825	3830
15°	3774	3787	3810
20°	3706	3737	3776
25°	3624	3672	3726
30°	3524	3596	3687
35°	3413	3509	3659
40°	3287	3430	3624
45°	3152	3344	3584
50°	3006	3244	3512
55°	2840	3114	3380
60°	2639	2940	3138
65°	2380	2670	2686
70°	2032	2223	2078
75°	1595	1609	1298
80°	1038	828	497
85°	482	315	256

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3584 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	3.7
10°-20°	383.0	10.6
20°-30°	569.0	15.8
30°-40°	670.1	18.6
40°-50°	678.9	18.8
50°-60°	590.9	16.4
60°-70°	402.7	11.2
70°-80°	161.0	4.5
80°-90°	18.4	0.5
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°	1087.0	30.1
0°-40°	1757.1	48.7
0°-60°	3027.0	83.9
0°-90°	3609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3609.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1430	1430	1430	1430	1430	
5°	1427	1418	1424	1422	1423	135
15°	1354	1349	1359	1364	1368	382
25°	1220	1221	1237	1247	1255	562
35°	1039	1044	1068	1096	1114	649
45°	828	838	879	920	942	639
55°	605	618	664	705	720	541
65°	374	391	419	420	422	370
75°	153	163	155	133	125	165
85°	16	14	10	9	8	25
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1429.7	1429.7	1429.7	1429.7	1429.7
2.5°	1433.7	1424.4	1429.7	1428.7	1424.9
5°	1426.8	1418.5	1424.4	1422.5	1422.9
7.5°	1415.6	1407.9	1414.3	1413.7	1415.2
10°	1399.7	1391.9	1399.7	1400.1	1401.6
12.5°	1379.7	1372.9	1382.2	1384.1	1387.5
15°	1354.5	1348.7	1359.3	1364.2	1367.6
17.5°	1327.3	1323.5	1334.1	1340.4	1345.8
20°	1294.3	1292.4	1305.0	1311.2	1318.5
22.5°	1258.3	1257.4	1272.5	1280.2	1287.5
25°	1220.5	1221.0	1236.6	1246.8	1255.0
27.5°	1178.7	1179.7	1198.7	1210.8	1221.0
30°	1134.1	1136.6	1157.4	1173.9	1186.6
32.5°	1087.0	1091.4	1113.7	1136.6	1152.5
35°	1038.9	1043.8	1068.1	1096.2	1113.7
37.5°	989.4	994.8	1022.9	1056.0	1074.4
40°	935.6	943.7	976.3	1012.7	1031.6
42.5°	882.6	891.8	928.3	968.1	988.5
45°	828.3	838.5	878.7	920.0	941.8
47.5°	775.8	784.5	827.7	871.0	890.4
50°	718.1	729.7	774.8	818.1	838.9
52.5°	662.7	673.9	720.0	764.1	785.6
55°	605.4	618.5	663.7	705.4	720.4
57.5°	547.7	562.7	606.4	640.8	653.9
60°	490.4	505.4	546.2	573.3	583.1
62.5°	432.5	448.1	484.0	500.6	502.5
65°	373.8	391.3	419.4	420.0	421.9
67.5°	318.0	332.5	352.9	347.1	344.2
70°	258.3	274.3	282.5	270.9	264.1
72.5°	205.4	217.0	215.6	198.5	190.4
75°	153.4	162.7	154.8	133.1	124.8
77.5°	106.3	114.1	98.5	78.1	70.0
80°	67.0	70.4	53.4	37.9	32.1
82.5°	35.9	35.4	22.9	18.9	17.5
85°	15.6	14.1	10.2	9.2	8.3
87.5°	5.4	4.8	3.9	3.4	2.9
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	15.60	17.18	15.96	17.49	17.81	16.56	18.14	16.92	18.45	18.77
	3H	17.02	18.44	17.40	18.77	19.13	17.75	19.17	18.13	19.49	19.86
	4H	17.41	18.74	17.81	19.09	19.47	17.96	19.30	18.36	19.64	20.02
	6H	17.59	18.82	18.00	19.18	19.57	17.98	19.21	18.39	19.58	19.97
	8H	17.60	18.77	18.02	19.16	19.56	17.96	19.13	18.38	19.52	19.92
	12H	17.59	18.71	18.02	19.09	19.52	17.93	19.05	18.36	19.44	19.87
4H	2H	16.26	17.59	16.66	17.94	18.32	17.03	18.36	17.43	18.71	19.09
	3H	17.84	18.94	18.25	19.34	19.74	18.38	19.49	18.79	19.88	20.28
	4H	18.31	19.30	18.74	19.72	20.16	18.65	19.64	19.08	20.06	20.49
	6H	18.55	19.41	19.01	19.85	20.31	18.70	19.56	19.16	20.00	20.46
	8H	18.57	19.38	19.04	19.82	20.29	18.68	19.48	19.14	19.92	20.39
	12H	18.57	19.29	19.05	19.77	20.24	18.66	19.37	19.14	19.85	20.32
8H	4H	18.45	19.25	18.91	19.69	20.16	18.76	19.57	19.23	20.01	20.48
	6H	18.72	19.39	19.22	19.88	20.35	18.82	19.48	19.32	19.98	20.45
	8H	18.76	19.35	19.28	19.86	20.35	18.80	19.39	19.31	19.90	20.39
	12H	18.77	19.30	19.28	19.79	20.35	18.79	19.31	19.29	19.80	20.36
12H	4H	18.43	19.15	18.91	19.62	20.10	18.75	19.47	19.23	19.95	20.42
	6H	18.69	19.29	19.21	19.79	20.28	18.80	19.39	19.31	19.90	20.39
	8H	18.76	19.28	19.27	19.77	20.33	18.80	19.32	19.31	19.81	20.38