

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: P1498523

Luminaire Tested: MAE-G-2-120-2STD-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498523
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-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

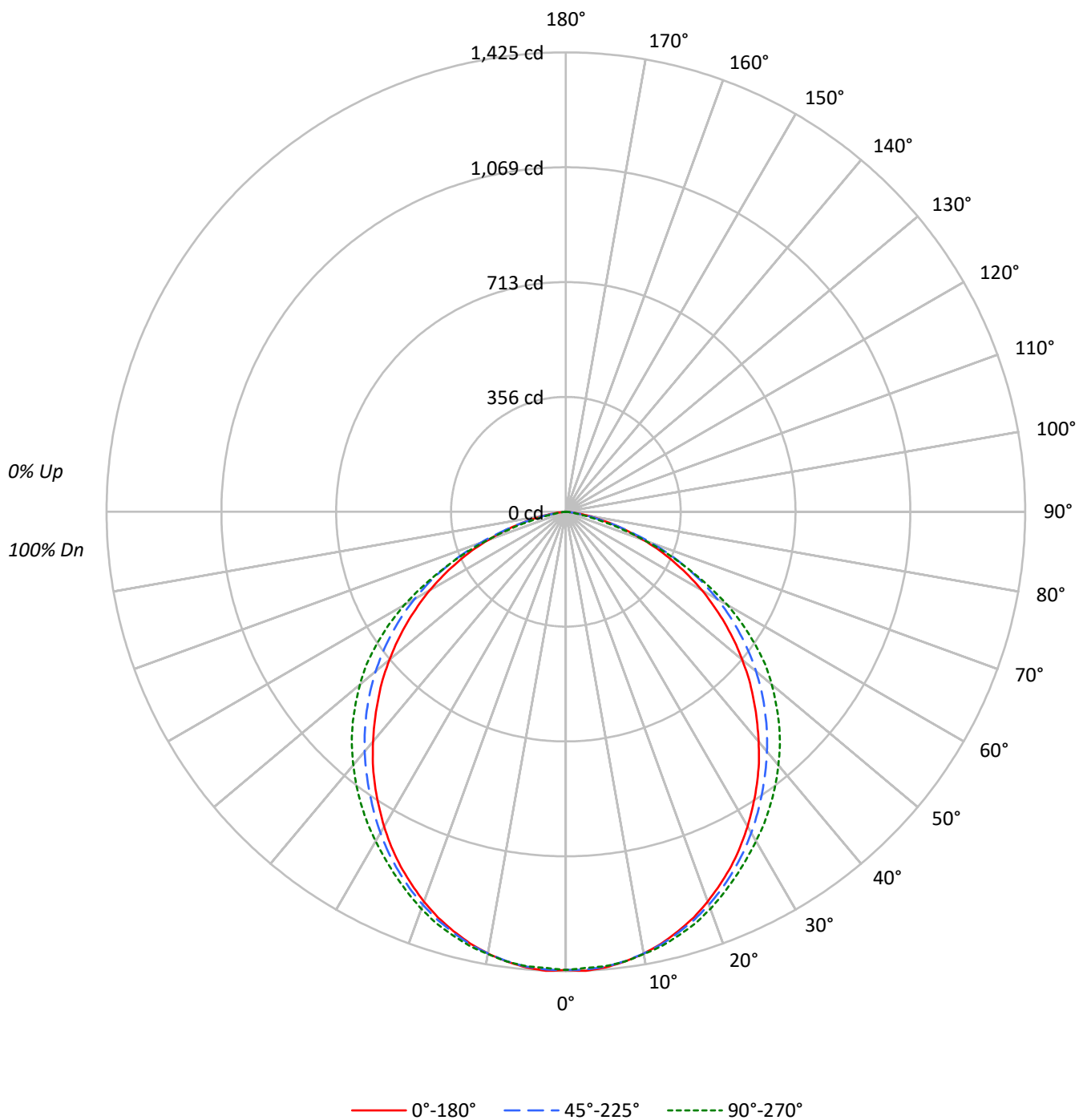
Lumens per Lamp: N/A
Luminaire Lumens: 3588.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	102	98	107	103	100	97	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	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	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	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3825	3825	3825
5°	3832	3826	3821
10°	3802	3802	3807
15°	3752	3765	3788
20°	3685	3715	3754
25°	3603	3650	3705
30°	3503	3575	3666
35°	3393	3488	3637
40°	3267	3410	3603
45°	3134	3325	3563
50°	2989	3225	3491
55°	2824	3096	3360
60°	2624	2922	3120
65°	2367	2655	2671
70°	2020	2210	2065
75°	1587	1600	1290
80°	1032	823	494
85°	479	312	253

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3563 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	3.7
10°-20°	380.8	10.6
20°-30°	565.6	15.8
30°-40°	666.2	18.6
40°-50°	675.0	18.8
50°-60°	587.5	16.4
60°-70°	400.3	11.2
70°-80°	160.0	4.5
80°-90°	18.3	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°	1080.6	30.1
0°-40°	1746.9	48.7
0°-60°	3009.3	83.9
0°-90°	3588.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3588.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1421	1421	1421	1421	1421	
5°	1418	1410	1416	1414	1415	135
15°	1347	1341	1351	1356	1360	380
25°	1213	1214	1229	1240	1248	558
35°	1033	1038	1062	1090	1107	646
45°	824	834	874	915	936	636
55°	602	615	660	701	716	538
65°	372	389	417	418	420	368
75°	153	162	154	132	124	164
85°	16	14	10	9	8	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1421.4	1421.4	1421.4	1421.4	1421.4
2.5°	1425.3	1416.2	1421.4	1420.4	1416.6
5°	1418.5	1410.3	1416.2	1414.2	1414.7
7.5°	1407.4	1399.7	1406.0	1405.5	1407.0
10°	1391.5	1383.8	1391.5	1391.9	1393.4
12.5°	1371.7	1365.0	1374.1	1376.0	1379.5
15°	1346.6	1340.8	1351.4	1356.3	1359.6
17.5°	1319.6	1315.8	1326.3	1332.6	1338.0
20°	1286.8	1284.8	1297.4	1303.6	1310.9
22.5°	1251.0	1250.1	1265.1	1272.8	1280.0
25°	1213.4	1213.9	1229.4	1239.5	1247.7
27.5°	1171.9	1172.8	1191.7	1203.8	1213.9
30°	1127.5	1129.9	1150.6	1167.1	1179.7
32.5°	1080.7	1085.0	1107.2	1129.9	1145.8
35°	1032.9	1037.8	1061.9	1089.8	1107.2
37.5°	983.7	989.0	1017.0	1049.8	1068.2
40°	930.1	938.2	970.7	1006.8	1025.6
42.5°	877.4	886.6	922.9	962.5	982.7
45°	823.5	833.6	873.6	914.7	936.3
47.5°	771.3	779.9	822.9	865.9	885.2
50°	713.9	725.4	770.3	813.3	834.0
52.5°	658.8	669.9	715.8	759.7	781.0
55°	601.9	614.9	659.8	701.3	716.2
57.5°	544.5	559.4	602.8	637.1	650.1
60°	487.5	502.5	543.0	570.0	579.7
62.5°	430.0	445.5	481.2	497.7	499.6
65°	371.7	389.1	417.0	417.5	419.5
67.5°	316.2	330.6	350.9	345.1	342.2
70°	256.8	272.7	280.9	269.4	262.5
72.5°	204.2	215.7	214.3	197.4	189.2
75°	152.6	161.7	153.9	132.3	124.1
77.5°	105.7	113.4	97.9	77.7	69.6
80°	66.6	70.0	53.1	37.7	31.9
82.5°	35.7	35.2	22.7	18.8	17.4
85°	15.5	14.0	10.1	9.2	8.2
87.5°	5.3	4.8	3.8	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	15.58	17.16	15.94	17.47	17.79	16.54	18.12	16.90	18.43	18.75
	3H	17.00	18.42	17.38	18.75	19.11	17.73	19.15	18.10	19.47	19.84
	4H	17.39	18.72	17.79	19.07	19.45	17.94	19.28	18.34	19.62	20.00
	6H	17.57	18.80	17.98	19.16	19.55	17.96	19.19	18.37	19.56	19.95
	8H	17.58	18.75	18.00	19.14	19.54	17.94	19.11	18.36	19.50	19.90
	12H	17.57	18.69	18.00	19.07	19.50	17.91	19.03	18.34	19.42	19.85
4H	2H	16.24	17.57	16.64	17.92	18.30	17.01	18.34	17.41	18.69	19.07
	3H	17.82	18.92	18.23	19.32	19.72	18.36	19.47	18.77	19.86	20.27
	4H	18.29	19.28	18.72	19.70	20.14	18.63	19.62	19.06	20.04	20.47
	6H	18.53	19.39	18.99	19.83	20.29	18.68	19.54	19.14	19.98	20.44
	8H	18.55	19.36	19.02	19.80	20.27	18.66	19.46	19.12	19.90	20.37
	12H	18.55	19.27	19.03	19.75	20.22	18.64	19.35	19.12	19.83	20.30
8H	4H	18.43	19.23	18.89	19.67	20.14	18.74	19.55	19.21	19.99	20.46
	6H	18.70	19.36	19.20	19.86	20.33	18.80	19.46	19.30	19.96	20.43
	8H	18.74	19.33	19.25	19.84	20.33	18.78	19.37	19.29	19.88	20.37
	12H	18.75	19.28	19.26	19.77	20.33	18.77	19.29	19.27	19.78	20.34
12H	4H	18.41	19.13	18.89	19.60	20.07	18.73	19.45	19.21	19.93	20.40
	6H	18.67	19.27	19.19	19.77	20.26	18.78	19.37	19.29	19.88	20.37
	8H	18.74	19.26	19.25	19.75	20.31	18.78	19.30	19.29	19.79	20.36