

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: P1498505

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498505
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-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

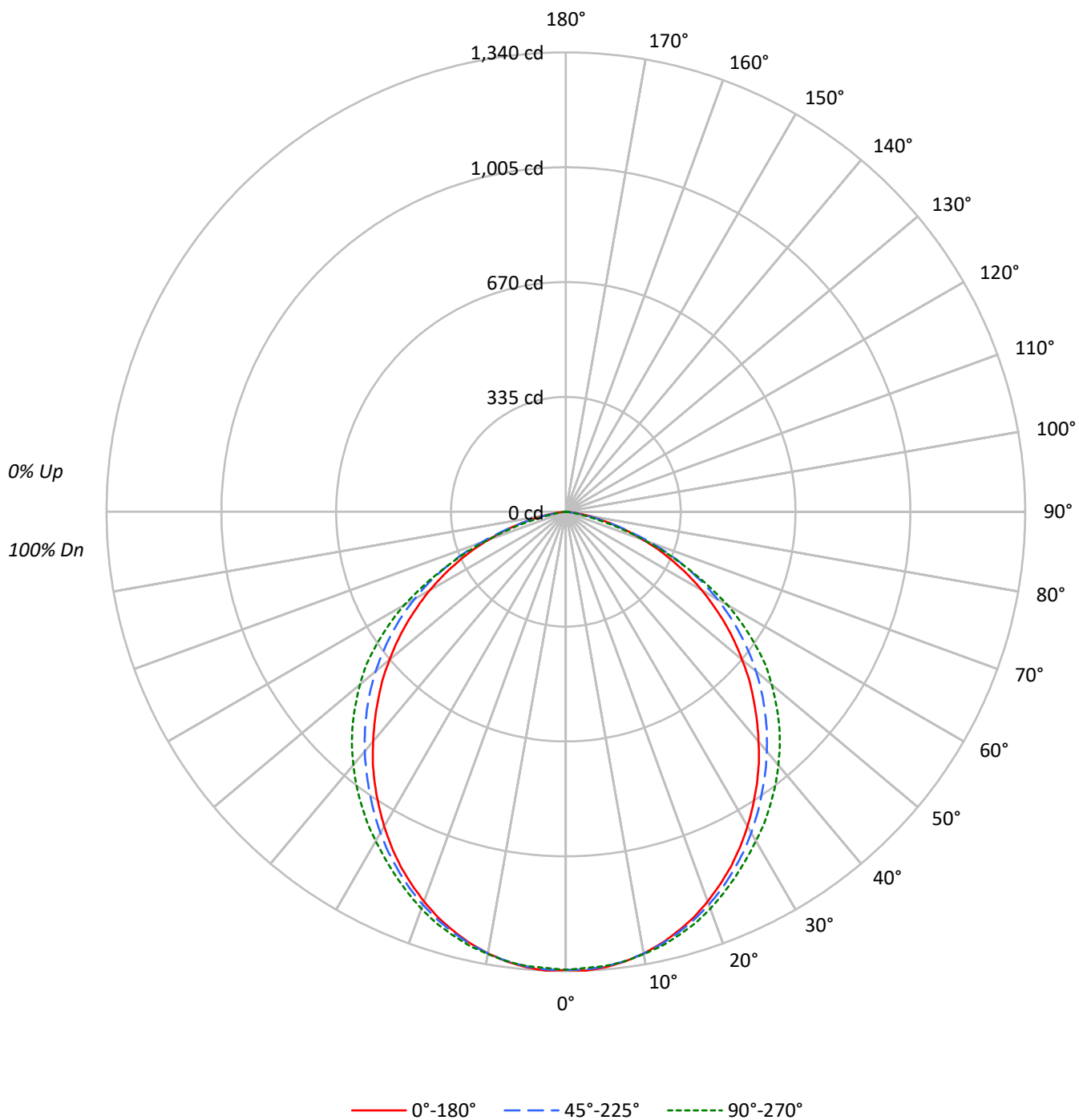
Lumens per Lamp: N/A
Luminaire Lumens: 3373.0 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1498505

CATALOG NUMBER: MAE-G-2-120-2STD-30-90-WDDCPH

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°	3596	3596	3596
5°	3602	3596	3592
10°	3574	3574	3579
15°	3527	3539	3561
20°	3464	3493	3529
25°	3387	3431	3483
30°	3293	3361	3446
35°	3190	3279	3419
40°	3072	3205	3387
45°	2946	3125	3350
50°	2810	3032	3282
55°	2654	2910	3159
60°	2467	2747	2933
65°	2225	2496	2511
70°	1899	2078	1942
75°	1491	1504	1212
80°	970	773	465
85°	448	293	238

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3350 cd/sqm

TEST NUMBER: P1498505

CATALOG NUMBER: MAE-G-2-120-2STD-30-90-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	3.7
10°-20°	357.9	10.6
20°-30°	531.7	15.8
30°-40°	626.3	18.6
40°-50°	634.5	18.8
50°-60°	552.3	16.4
60°-70°	376.3	11.2
70°-80°	150.4	4.5
80°-90°	17.2	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°	1015.9	30.1
0°-40°	1642.2	48.7
0°-60°	2829.0	83.9
0°-90°	3373.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3373.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1334	1326	1331	1330	1330	126
15°	1266	1260	1270	1275	1278	357
25°	1141	1141	1156	1165	1173	525
35°	971	976	998	1024	1041	607
45°	774	784	821	860	880	597
55°	566	578	620	659	673	505
65°	349	366	392	392	394	346
75°	143	152	145	124	117	154
85°	14	13	10	9	8	23
90°	0	0	0	0	0	

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CATALOG NUMBER: MAE-G-2-120-2STD-30-90-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1336.2	1336.2	1336.2	1336.2	1336.2
2.5°	1339.9	1331.3	1336.2	1335.3	1331.7
5°	1333.5	1325.8	1331.3	1329.5	1329.9
7.5°	1323.1	1315.9	1321.8	1321.3	1322.7
10°	1308.1	1300.9	1308.1	1308.5	1309.9
12.5°	1289.5	1283.2	1291.8	1293.6	1296.8
15°	1265.9	1260.5	1270.4	1275.0	1278.1
17.5°	1240.5	1236.9	1246.9	1252.8	1257.8
20°	1209.7	1207.8	1219.7	1225.5	1232.3
22.5°	1176.1	1175.2	1189.3	1196.5	1203.3
25°	1140.7	1141.2	1155.7	1165.2	1172.9
27.5°	1101.6	1102.5	1120.3	1131.6	1141.2
30°	1059.9	1062.2	1081.7	1097.1	1109.0
32.5°	1015.9	1020.0	1040.9	1062.2	1077.2
35°	971.0	975.6	998.2	1024.5	1040.9
37.5°	924.7	929.8	956.0	986.9	1004.2
40°	874.4	882.0	912.5	946.5	964.2
42.5°	824.9	833.5	867.6	904.8	923.8
45°	774.1	783.6	821.2	859.9	880.2
47.5°	725.1	733.2	773.6	814.0	832.2
50°	671.1	681.9	724.2	764.6	784.0
52.5°	619.4	629.8	672.9	714.1	734.2
55°	565.8	578.0	620.3	659.3	673.3
57.5°	511.9	525.9	566.7	598.9	611.1
60°	458.3	472.3	510.5	535.8	545.0
62.5°	404.3	418.8	452.4	467.8	469.6
65°	349.4	365.7	392.0	392.5	394.3
67.5°	297.2	310.8	329.8	324.4	321.7
70°	241.4	256.3	264.1	253.2	246.8
72.5°	191.9	202.8	201.5	185.5	177.9
75°	143.4	152.0	144.7	124.4	116.6
77.5°	99.4	106.6	92.1	73.0	65.4
80°	62.6	65.8	49.9	35.4	30.0
82.5°	33.6	33.1	21.4	17.7	16.3
85°	14.5	13.1	9.5	8.6	7.7
87.5°	5.0	4.5	3.6	3.2	2.7
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	15.36	16.94	15.73	17.26	17.57	16.32	17.90	16.69	18.22	18.53
	3H	16.78	18.20	17.16	18.53	18.89	17.51	18.93	17.89	19.26	19.62
	4H	17.18	18.51	17.58	18.86	19.23	17.73	19.06	18.13	19.41	19.79
	6H	17.35	18.58	17.76	18.95	19.34	17.75	18.98	18.16	19.34	19.73
	8H	17.36	18.54	17.79	18.93	19.33	17.72	18.89	18.15	19.28	19.68
	12H	17.35	18.48	17.78	18.86	19.29	17.70	18.82	18.13	19.20	19.63
4H	2H	16.02	17.36	16.42	17.70	18.08	16.80	18.13	17.20	18.48	18.85
	3H	17.60	18.71	18.01	19.10	19.50	18.15	19.25	18.56	19.65	20.05
	4H	18.08	19.07	18.51	19.48	19.92	18.42	19.41	18.85	19.82	20.26
	6H	18.32	19.18	18.77	19.62	20.08	18.47	19.33	18.92	19.77	20.23
	8H	18.34	19.14	18.80	19.59	20.05	18.44	19.24	18.90	19.69	20.15
	12H	18.34	19.06	18.82	19.53	20.00	18.42	19.14	18.90	19.62	20.09
8H	4H	18.21	19.02	18.68	19.46	19.93	18.53	19.33	18.99	19.78	20.24
	6H	18.49	19.15	18.99	19.64	20.12	18.59	19.25	19.08	19.74	20.22
	8H	18.53	19.12	19.04	19.63	20.11	18.57	19.16	19.08	19.67	20.15
	12H	18.54	19.06	19.05	19.55	20.12	18.55	19.07	19.06	19.56	20.13
12H	4H	18.19	18.91	18.68	19.39	19.86	18.52	19.24	19.00	19.71	20.18
	6H	18.46	19.05	18.97	19.56	20.05	18.57	19.16	19.08	19.67	20.15
	8H	18.52	19.04	19.03	19.53	20.10	18.57	19.09	19.07	19.58	20.14