

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: P1498085

Luminaire Tested: MAE-G-2-120-1HI-LO-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-1HI-LO-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

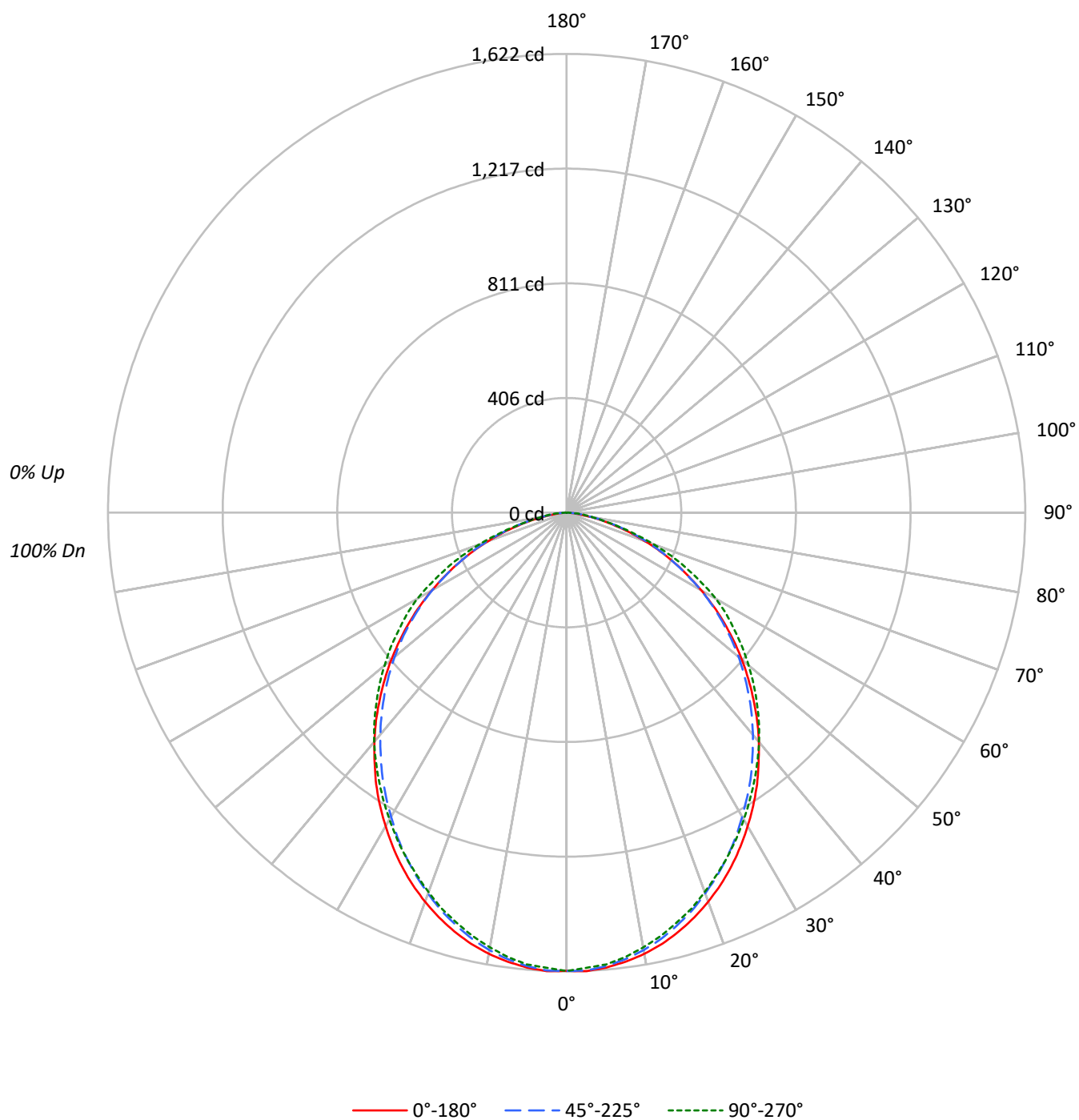
Lumens per Lamp: N/A
Luminaire Lumens: 3919.0 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 47.1
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: P1498085

CATALOG NUMBER: MAE-G-2-120-1HI-LO-40-90-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	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		67	61	56		64
5	78	65	56	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	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	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°	4361	4361	4361
5°	4361	4347	4331
10°	4329	4292	4265
15°	4272	4208	4183
20°	4193	4104	4089
25°	4096	3989	3991
30°	3979	3857	3893
35°	3856	3733	3802
40°	3715	3600	3718
45°	3556	3467	3620
50°	3389	3323	3519
55°	3195	3150	3402
60°	2956	2951	3285
65°	2682	2677	2997
70°	2320	2375	2585
75°	1840	1959	1988
80°	1263	1426	1449
85°	698	1028	1284

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3620 cd/sqm

TEST NUMBER: P1498085

CATALOG NUMBER: MAE-G-2-120-1HI-LO-40-90-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.3	3.9
10°-20°	426.3	10.9
20°-30°	622.2	15.9
30°-40°	719.4	18.4
40°-50°	715.0	18.2
50°-60°	614.1	15.7
60°-70°	429.8	11.0
70°-80°	199.9	5.1
80°-90°	40.0	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°	1200.8	30.6
0°-40°	1920.2	49.0
0°-60°	3249.3	82.9
0°-90°	3919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3919.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1620	1620	1620	1620	1620	
5°	1615	1613	1609	1600	1604	153
15°	1533	1527	1510	1498	1501	432
25°	1380	1365	1344	1337	1344	635
35°	1174	1154	1136	1145	1157	733
45°	934	919	911	935	951	721
55°	681	667	672	704	725	608
65°	421	410	420	456	471	417
75°	177	173	188	194	191	191
85°	23	27	33	39	42	32
90°	0	0	0	0	0	

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CATALOG NUMBER: MAE-G-2-120-1HI-LO-40-90-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1620.5	1620.5	1620.5	1620.5	1620.5
2.5°	1622.5	1623.6	1620.5	1609.4	1610.7
5°	1614.6	1613.1	1609.3	1600.2	1603.5
7.5°	1601.5	1599.7	1592.8	1582.6	1585.0
10°	1584.1	1580.6	1570.8	1558.3	1560.8
12.5°	1561.7	1557.4	1543.9	1530.6	1533.7
15°	1533.4	1527.1	1510.5	1497.9	1501.4
17.5°	1500.9	1494.6	1475.1	1461.5	1468.1
20°	1464.1	1455.0	1433.1	1421.5	1427.9
22.5°	1423.9	1412.1	1390.0	1379.8	1386.1
25°	1379.5	1364.9	1343.5	1337.1	1344.2
27.5°	1331.5	1315.8	1295.0	1290.1	1300.0
30°	1280.5	1263.8	1241.4	1242.4	1253.0
32.5°	1228.4	1211.1	1189.5	1194.9	1205.6
35°	1173.8	1154.5	1136.4	1144.6	1157.4
37.5°	1115.1	1097.3	1079.9	1095.8	1108.4
40°	1057.5	1038.8	1024.8	1044.2	1058.4
42.5°	997.5	980.0	968.7	990.5	1006.8
45°	934.5	919.0	911.0	935.4	951.3
47.5°	871.8	856.1	852.7	879.2	896.9
50°	809.5	795.1	793.7	822.7	840.6
52.5°	744.8	730.8	733.9	763.6	784.4
55°	681.1	666.8	671.5	704.1	725.1
57.5°	615.9	605.8	610.7	645.5	670.4
60°	549.3	539.0	548.3	588.0	610.3
62.5°	484.8	474.3	483.5	526.2	540.1
65°	421.2	410.4	420.5	455.5	470.7
67.5°	358.9	348.4	362.6	393.3	402.4
70°	294.9	285.8	301.8	325.8	328.5
72.5°	235.3	227.1	245.0	258.8	257.2
75°	177.0	172.8	188.4	194.4	191.2
77.5°	126.4	124.2	136.6	138.2	135.3
80°	81.5	83.4	92.0	92.2	93.5
82.5°	47.2	50.7	56.9	64.5	65.7
85°	22.6	26.8	33.3	39.3	41.6
87.5°	7.9	10.7	13.6	15.0	14.6
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	15.87	17.46	16.24	17.77	18.08	16.35	17.94	16.72	18.25	18.56
	3H	17.30	18.72	17.68	19.05	19.41	17.91	19.33	18.28	19.66	20.02
	4H	17.72	19.05	18.12	19.40	19.78	18.33	19.67	18.73	20.02	20.39
	6H	17.92	19.16	18.34	19.53	19.92	18.54	19.78	18.95	20.14	20.53
	8H	17.95	19.13	18.38	19.52	19.92	18.60	19.77	19.02	20.16	20.56
	12H	17.96	19.08	18.39	19.47	19.90	18.63	19.76	19.06	20.14	20.57
4H	2H	16.42	17.76	16.82	18.10	18.48	16.81	18.15	17.21	18.50	18.87
	3H	18.03	19.14	18.44	19.54	19.94	18.56	19.68	18.97	20.07	20.47
	4H	18.52	19.53	18.96	19.94	20.38	19.09	20.09	19.52	20.50	20.94
	6H	18.81	19.68	19.27	20.12	20.58	19.39	20.26	19.84	20.70	21.16
	8H	18.86	19.67	19.32	20.11	20.58	19.46	20.28	19.93	20.72	21.19
	12H	18.88	19.60	19.36	20.08	20.55	19.53	20.26	20.01	20.73	21.20
8H	4H	18.73	19.55	19.20	19.99	20.46	19.25	20.06	19.71	20.50	20.97
	6H	19.08	19.75	19.57	20.24	20.72	19.61	20.28	20.10	20.77	21.25
	8H	19.16	19.76	19.67	20.27	20.75	19.73	20.33	20.24	20.84	21.33
	12H	19.20	19.73	19.71	20.23	20.79	19.84	20.37	20.35	20.86	21.42
12H	4H	18.74	19.47	19.22	19.94	20.41	19.24	19.97	19.72	20.45	20.92
	6H	19.09	19.69	19.60	20.20	20.69	19.61	20.21	20.12	20.72	21.20
	8H	19.20	19.73	19.71	20.23	20.79	19.77	20.30	20.27	20.79	21.35