

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: P1499000

Luminaire Tested: MAE-G-4-120-1LO-40-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499000
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-4-120-1LO-40-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

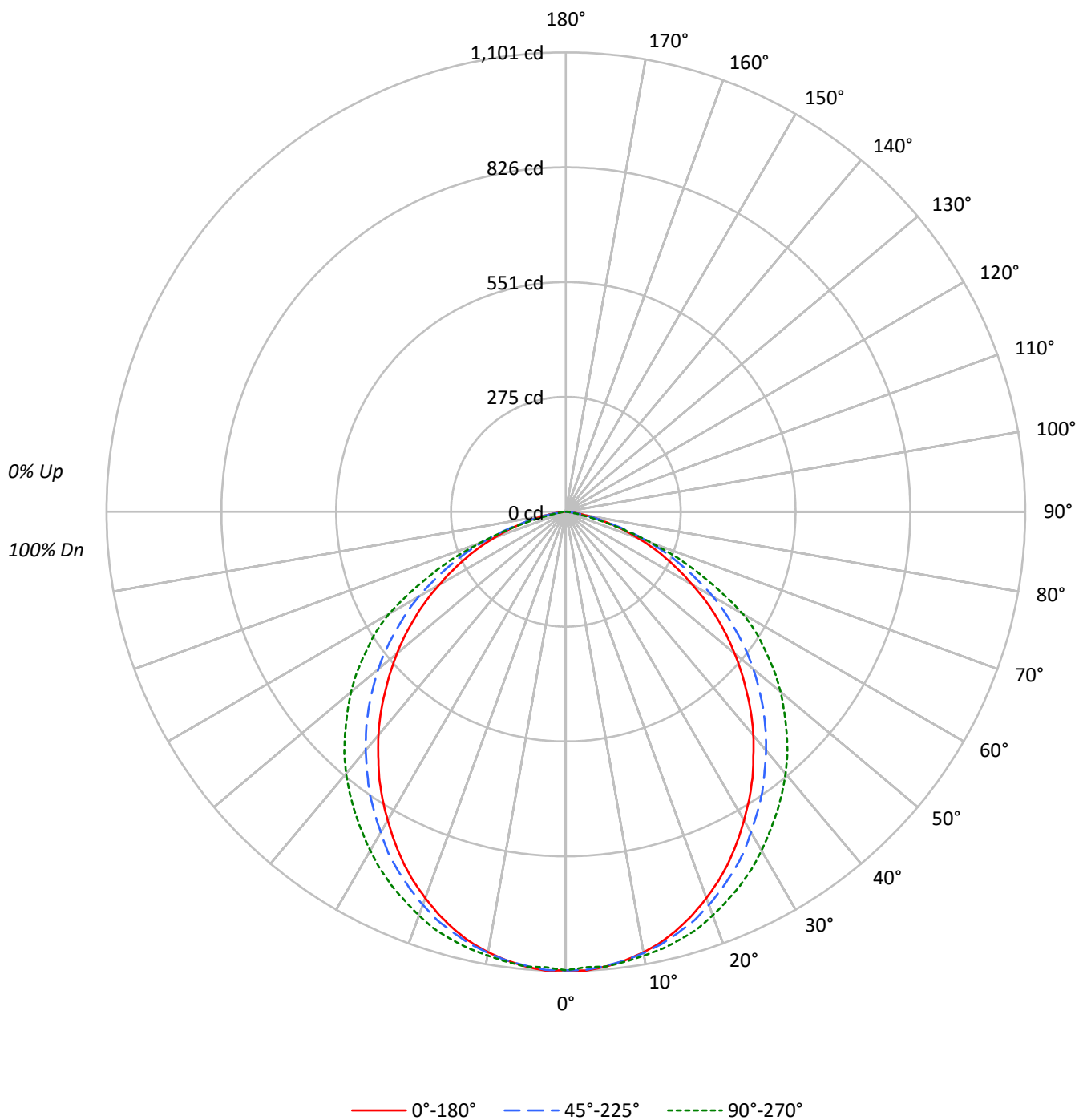
Lumens per Lamp: N/A
Luminaire Lumens: 2767.0 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	92	82	74	68	90	80	73	67	77	71	66		75	70	65		72
4	84	73	65	58	82	72	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		55	48	43		53
7	67	54	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	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1479	1479	1479
5°	1478	1476	1478
10°	1465	1467	1476
15°	1443	1454	1478
20°	1411	1436	1474
25°	1373	1411	1467
30°	1327	1378	1457
35°	1281	1348	1447
40°	1228	1311	1439
45°	1168	1273	1423
50°	1106	1228	1407
55°	1035	1168	1373
60°	945	1098	1319
65°	846	982	1133
70°	721	827	865
75°	559	600	485
80°	367	318	171
85°	196	147	97

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1423 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.8	3.8
10°-20°	295.0	10.7
20°-30°	438.6	15.9
30°-40°	515.6	18.6
40°-50°	520.4	18.8
50°-60°	451.9	16.3
60°-70°	307.6	11.1
70°-80°	119.8	4.3
80°-90°	14.4	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°	837.3	30.3
0°-40°	1353.0	48.9
0°-60°	2325.3	84.0
0°-90°	2767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2767.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1099	1099	1099	1099	1099	
5°	1094	1093	1093	1093	1094	104
15°	1036	1037	1044	1055	1061	292
25°	925	930	950	974	988	425
35°	780	789	821	859	881	487
45°	614	629	669	721	748	474
55°	441	455	498	555	585	394
65°	266	278	308	342	356	264
75°	108	114	115	104	93	117
85°	13	13	10	8	6	18
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1099.1	1099.1	1099.1	1099.1	1099.1
2.5°	1100.7	1100.7	1099.1	1094.3	1092.7
5°	1094.3	1092.7	1092.7	1092.7	1094.3
7.5°	1084.8	1084.8	1084.8	1086.4	1088.0
10°	1072.2	1072.2	1073.8	1076.9	1080.1
12.5°	1056.4	1058.0	1061.1	1067.4	1072.2
15°	1035.8	1037.4	1043.7	1054.8	1061.1
17.5°	1012.1	1016.8	1026.3	1039.0	1048.5
20°	985.2	990.0	1002.6	1018.4	1029.5
22.5°	956.7	961.5	977.3	996.3	1008.9
25°	925.1	929.9	950.4	974.1	988.4
27.5°	890.3	896.7	922.0	947.3	964.7
30°	854.0	861.9	887.2	918.8	937.8
32.5°	817.6	827.1	854.0	890.3	909.3
35°	779.6	789.1	820.7	858.7	880.8
37.5°	738.5	749.6	782.8	828.7	850.8
40°	699.0	710.0	746.4	795.4	819.2
42.5°	657.9	670.5	708.5	759.1	786.0
45°	613.6	629.4	668.9	721.1	748.0
47.5°	570.9	585.1	627.8	681.6	710.0
50°	528.2	544.0	586.7	642.0	672.1
52.5°	485.5	499.7	544.0	599.4	631.0
55°	441.2	455.4	498.1	555.1	585.1
57.5°	396.9	414.3	453.9	509.2	542.4
60°	351.1	366.9	408.0	463.4	490.2
62.5°	308.4	322.6	357.4	409.6	422.2
65°	265.7	278.3	308.4	341.6	355.8
67.5°	226.1	235.6	262.5	284.7	291.0
70°	183.4	192.9	210.3	223.0	219.8
72.5°	145.5	151.8	162.9	161.3	153.4
75°	107.5	113.9	115.4	104.4	93.3
77.5°	75.9	79.1	74.3	58.5	47.4
80°	47.4	49.0	41.1	25.3	22.1
82.5°	26.9	26.9	19.0	15.8	12.7
85°	12.7	12.7	9.5	7.9	6.3
87.5°	4.7	4.7	3.2	3.2	3.2
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	11.96	13.54	12.33	13.86	14.17	13.54	15.12	13.91	15.44	15.75
	3H	13.30	14.72	13.68	15.04	15.40	14.81	16.23	15.19	16.56	16.92
	4H	13.67	15.00	14.07	15.34	15.72	15.01	16.34	15.41	16.68	17.06
	6H	13.83	15.06	14.24	15.42	15.82	15.00	16.23	15.42	16.60	16.99
	8H	13.84	15.01	14.27	15.40	15.80	14.98	16.15	15.40	16.54	16.94
	12H	13.84	14.96	14.27	15.34	15.77	14.95	16.07	15.38	16.45	16.88
4H	2H	12.63	13.96	13.03	14.31	14.68	13.92	15.25	14.32	15.60	15.97
	3H	14.13	15.23	14.54	15.63	16.03	15.36	16.46	15.77	16.86	17.26
	4H	14.57	15.56	15.00	15.97	16.41	15.61	16.60	16.04	17.01	17.45
	6H	14.79	15.65	15.25	16.09	16.55	15.64	16.50	16.09	16.94	17.40
	8H	14.82	15.62	15.28	16.06	16.53	15.61	16.41	16.07	16.86	17.32
	12H	14.82	15.54	15.30	16.01	16.48	15.59	16.30	16.07	16.78	17.25
8H	4H	14.73	15.53	15.19	15.97	16.44	15.69	16.50	16.16	16.94	17.41
	6H	14.99	15.64	15.48	16.13	16.61	15.73	16.39	16.22	16.88	17.35
	8H	15.03	15.62	15.54	16.12	16.61	15.70	16.29	16.22	16.80	17.29
	12H	15.05	15.57	15.56	16.06	16.62	15.69	16.21	16.20	16.70	17.26
12H	4H	14.71	15.42	15.19	15.90	16.37	15.68	16.40	16.16	16.87	17.34
	6H	14.96	15.55	15.47	16.06	16.54	15.70	16.29	16.21	16.80	17.29
	8H	15.02	15.54	15.53	16.04	16.60	15.70	16.22	16.21	16.71	17.27