

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: P1499081

Luminaire Tested: MAE-G-4-120-1STD-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499081
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-4-120-1STD-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

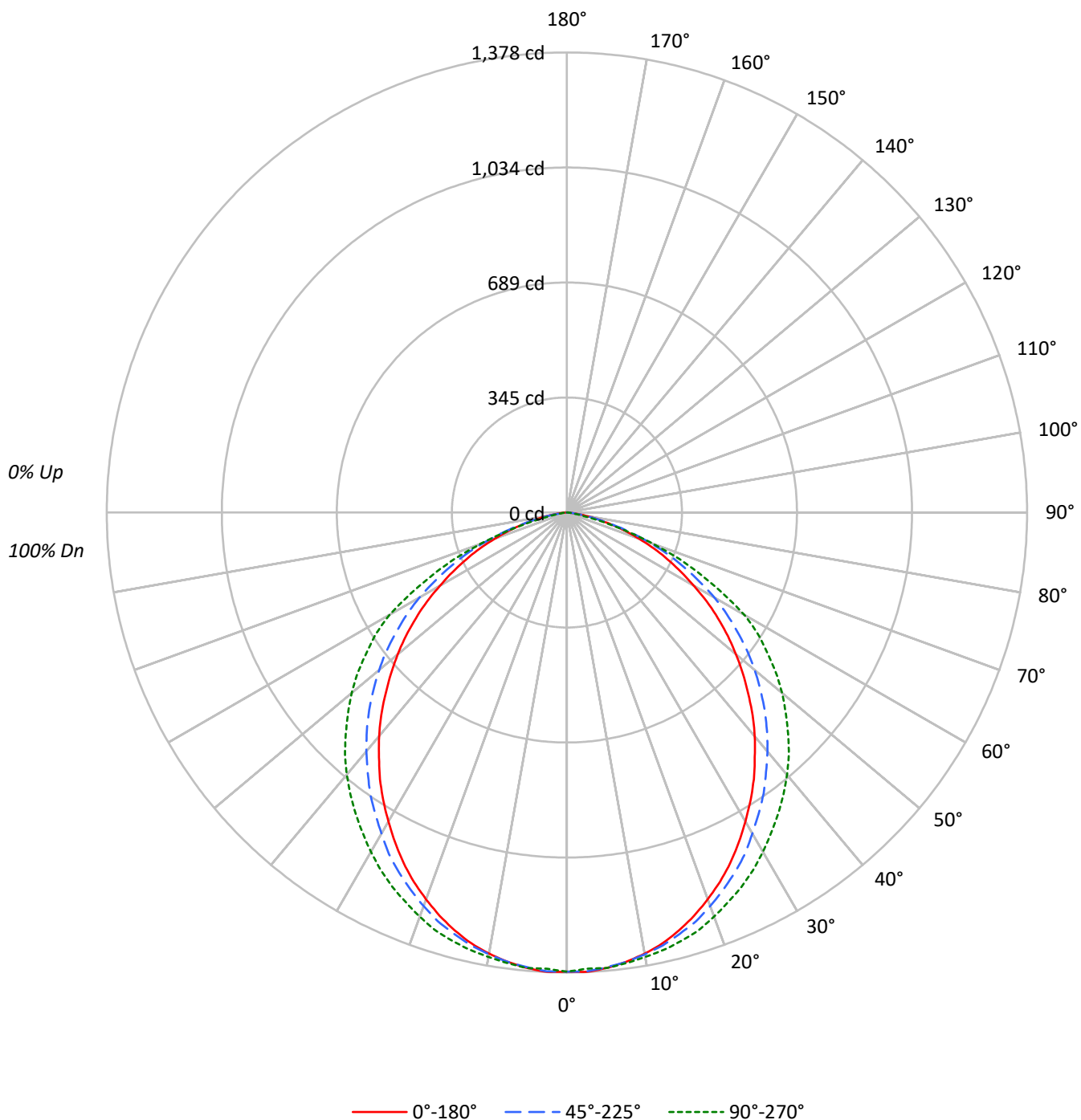
Lumens per Lamp: N/A
Luminaire Lumens: 3463.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.1
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

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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°	1851	1851	1851
5°	1850	1847	1850
10°	1833	1836	1847
15°	1806	1820	1850
20°	1765	1797	1845
25°	1719	1766	1836
30°	1661	1725	1824
35°	1603	1687	1811
40°	1537	1641	1801
45°	1461	1593	1781
50°	1384	1537	1761
55°	1295	1462	1718
60°	1182	1374	1651
65°	1059	1229	1418
70°	903	1035	1082
75°	700	751	607
80°	460	399	215
85°	244	184	122

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1781 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	3.8
10°-20°	369.2	10.7
20°-30°	548.9	15.9
30°-40°	645.4	18.6
40°-50°	651.3	18.8
50°-60°	565.5	16.3
60°-70°	384.9	11.1
70°-80°	150.0	4.3
80°-90°	18.0	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°	1047.9	30.3
0°-40°	1693.3	48.9
0°-60°	2910.2	84.0
0°-90°	3463.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3463.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1376	1376	1376	1376	1376	
5°	1370	1368	1368	1368	1370	130
15°	1296	1298	1306	1320	1328	365
25°	1158	1164	1190	1219	1237	532
35°	976	988	1027	1075	1102	609
45°	768	788	837	902	936	593
55°	552	570	623	695	732	493
65°	332	348	386	428	445	330
75°	135	142	144	131	117	146
85°	16	16	12	10	8	23
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1375.5	1375.5	1375.5	1375.5	1375.5
2.5°	1377.5	1377.5	1375.5	1369.6	1367.6
5°	1369.6	1367.6	1367.6	1367.6	1369.6
7.5°	1357.7	1357.7	1357.7	1359.7	1361.7
10°	1341.9	1341.9	1343.9	1347.8	1351.8
12.5°	1322.1	1324.1	1328.0	1335.9	1341.9
15°	1296.4	1298.3	1306.3	1320.1	1328.0
17.5°	1266.7	1272.6	1284.5	1300.3	1312.2
20°	1233.0	1239.0	1254.8	1274.6	1288.4
22.5°	1197.4	1203.3	1223.1	1246.9	1262.7
25°	1157.8	1163.8	1189.5	1219.2	1237.0
27.5°	1114.3	1122.2	1153.9	1185.5	1207.3
30°	1068.8	1078.7	1110.3	1149.9	1173.7
32.5°	1023.2	1035.1	1068.8	1114.3	1138.0
35°	975.7	987.6	1027.2	1074.7	1102.4
37.5°	924.3	938.1	979.7	1037.1	1064.8
40°	874.8	888.7	934.2	995.5	1025.2
42.5°	823.3	839.2	886.7	950.0	983.7
45°	767.9	787.7	837.2	902.5	936.2
47.5°	714.5	732.3	785.7	853.0	888.7
50°	661.0	680.8	734.3	803.5	841.2
52.5°	607.6	625.4	680.8	750.1	789.7
55°	552.2	570.0	623.4	694.7	732.3
57.5°	496.8	518.5	568.0	637.3	678.9
60°	439.4	459.2	510.6	579.9	613.5
62.5°	385.9	403.8	447.3	512.6	528.4
65°	332.5	348.3	385.9	427.5	445.3
67.5°	283.0	294.9	328.5	356.3	364.2
70°	229.6	241.5	263.2	279.1	275.1
72.5°	182.1	190.0	203.9	201.9	192.0
75°	134.6	142.5	144.5	130.6	116.8
77.5°	95.0	99.0	93.0	73.2	59.4
80°	59.4	61.4	51.5	31.7	27.7
82.5°	33.6	33.6	23.8	19.8	15.8
85°	15.8	15.8	11.9	9.9	7.9
87.5°	5.9	5.9	4.0	4.0	4.0
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	12.74	14.32	13.11	14.64	14.95	14.32	15.90	14.69	16.22	16.53
	3H	14.08	15.50	14.46	15.82	16.18	15.59	17.01	15.97	17.34	17.70
	4H	14.45	15.78	14.85	16.12	16.50	15.79	17.12	16.19	17.46	17.84
	6H	14.61	15.84	15.02	16.20	16.60	15.78	17.01	16.20	17.38	17.77
	8H	14.62	15.79	15.05	16.18	16.58	15.76	16.93	16.18	17.32	17.72
	12H	14.62	15.74	15.05	16.12	16.55	15.73	16.85	16.16	17.23	17.66
4H	2H	13.41	14.74	13.81	15.08	15.46	14.70	16.03	15.10	16.38	16.75
	3H	14.90	16.01	15.31	16.41	16.81	16.14	17.24	16.55	17.64	18.04
	4H	15.35	16.34	15.78	16.75	17.19	16.39	17.38	16.82	17.79	18.23
	6H	15.57	16.43	16.03	16.87	17.33	16.42	17.28	16.87	17.72	18.18
	8H	15.60	16.40	16.06	16.84	17.31	16.39	17.19	16.85	17.64	18.10
	12H	15.60	16.32	16.08	16.79	17.26	16.37	17.08	16.85	17.56	18.03
8H	4H	15.51	16.31	15.97	16.75	17.22	16.47	17.28	16.94	17.72	18.19
	6H	15.77	16.42	16.26	16.91	17.39	16.51	17.17	17.00	17.66	18.13
	8H	15.81	16.40	16.32	16.90	17.39	16.48	17.07	16.99	17.58	18.07
	12H	15.83	16.35	16.34	16.84	17.40	16.47	16.99	16.98	17.48	18.04
12H	4H	15.49	16.20	15.97	16.68	17.15	16.46	17.18	16.94	17.65	18.12
	6H	15.74	16.33	16.25	16.84	17.32	16.48	17.07	16.99	17.58	18.07
	8H	15.80	16.32	16.31	16.82	17.38	16.48	17.00	16.99	17.49	18.05