

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: P1499093

Luminaire Tested: MAE-G-4-120-1STD-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499093
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-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

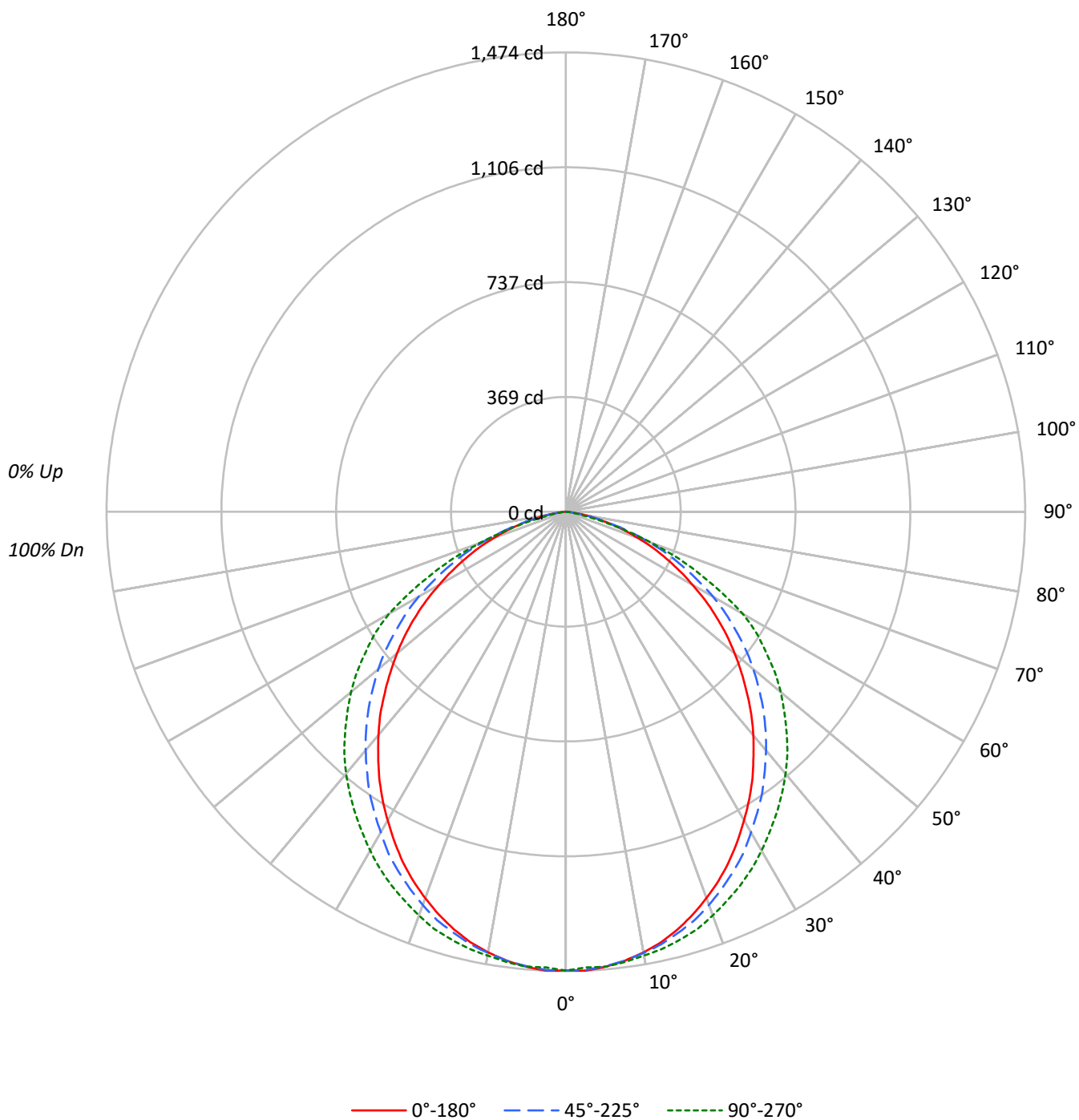
Lumens per Lamp: N/A
Luminaire Lumens: 3705.0 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1980	1980	1980
5°	1979	1976	1979
10°	1962	1964	1976
15°	1932	1947	1979
20°	1889	1922	1974
25°	1839	1889	1965
30°	1776	1846	1951
35°	1715	1805	1937
40°	1644	1756	1927
45°	1563	1704	1906
50°	1480	1644	1884
55°	1386	1565	1838
60°	1265	1470	1766
65°	1132	1315	1517
70°	966	1108	1158
75°	749	804	649
80°	492	427	229
85°	261	196	131

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1906 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.9	3.8
10°-20°	395.0	10.7
20°-30°	587.3	15.9
30°-40°	690.5	18.6
40°-50°	696.9	18.8
50°-60°	605.1	16.3
60°-70°	411.8	11.1
70°-80°	160.4	4.3
80°-90°	19.2	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°	1121.2	30.3
0°-40°	1811.6	48.9
0°-60°	3113.5	84.0
0°-90°	3705.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3705.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1472	1472	1472	1472	1472	
5°	1465	1463	1463	1463	1465	139
15°	1387	1389	1398	1412	1421	390
25°	1239	1245	1273	1304	1323	570
35°	1044	1057	1099	1150	1179	652
45°	822	843	896	966	1002	634
55°	591	610	667	743	784	528
65°	356	373	413	457	476	353
75°	144	152	155	140	125	157
85°	17	17	13	11	8	25
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1471.7	1471.7	1471.7	1471.7	1471.7
2.5°	1473.8	1473.8	1471.7	1465.3	1463.2
5°	1465.3	1463.2	1463.2	1463.2	1465.3
7.5°	1452.6	1452.6	1452.6	1454.7	1456.8
10°	1435.7	1435.7	1437.8	1442.0	1446.2
12.5°	1414.5	1416.6	1420.8	1429.3	1435.7
15°	1387.0	1389.1	1397.5	1412.4	1420.8
17.5°	1355.2	1361.5	1374.2	1391.2	1403.9
20°	1319.2	1325.5	1342.5	1363.7	1378.5
22.5°	1281.1	1287.4	1308.6	1334.0	1351.0
25°	1238.7	1245.1	1272.6	1304.4	1323.4
27.5°	1192.1	1200.6	1234.5	1268.4	1291.7
30°	1143.4	1154.0	1187.9	1230.3	1255.7
32.5°	1094.7	1107.4	1143.4	1192.1	1217.6
35°	1043.9	1056.6	1099.0	1149.8	1179.4
37.5°	988.9	1003.7	1048.2	1109.6	1139.2
40°	935.9	950.8	999.5	1065.1	1096.9
42.5°	880.9	897.8	948.6	1016.4	1052.4
45°	821.6	842.8	895.7	965.6	1001.6
47.5°	764.4	783.5	840.6	912.6	950.8
50°	707.2	728.4	785.6	859.7	899.9
52.5°	650.1	669.1	728.4	802.5	844.9
55°	590.8	609.8	667.0	743.2	783.5
57.5°	531.5	554.8	607.7	681.8	726.3
60°	470.1	491.3	546.3	620.4	656.4
62.5°	412.9	432.0	478.6	548.4	565.4
65°	355.7	372.7	412.9	457.4	476.4
67.5°	302.8	315.5	351.5	381.1	389.6
70°	245.6	258.3	281.6	298.6	294.3
72.5°	194.8	203.3	218.1	216.0	205.4
75°	144.0	152.5	154.6	139.8	124.9
77.5°	101.6	105.9	99.5	78.3	63.5
80°	63.5	65.6	55.1	33.9	29.6
82.5°	36.0	36.0	25.4	21.2	16.9
85°	16.9	16.9	12.7	10.6	8.5
87.5°	6.4	6.4	4.2	4.2	4.2
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	12.98	14.56	13.34	14.87	15.18	14.56	16.14	14.92	16.45	16.76
	3H	14.31	15.73	14.69	16.06	16.42	15.83	17.24	16.20	17.57	17.93
	4H	14.68	16.01	15.08	16.36	16.74	16.02	17.35	16.42	17.70	18.08
	6H	14.85	16.07	15.26	16.44	16.83	16.02	17.25	16.43	17.61	18.00
	8H	14.86	16.03	15.29	16.42	16.82	15.99	17.16	16.42	17.55	17.95
	12H	14.85	15.97	15.28	16.35	16.78	15.97	17.09	16.40	17.47	17.90
4H	2H	13.64	14.97	14.04	15.32	15.70	14.93	16.26	15.33	16.61	16.99
	3H	15.14	16.24	15.55	16.64	17.04	16.37	17.47	16.78	17.87	18.27
	4H	15.58	16.57	16.01	16.99	17.42	16.62	17.61	17.06	18.03	18.47
	6H	15.81	16.67	16.26	17.11	17.57	16.65	17.51	17.11	17.95	18.41
	8H	15.83	16.63	16.29	17.08	17.54	16.62	17.43	17.09	17.87	18.34
	12H	15.84	16.55	16.32	17.03	17.50	16.60	17.32	17.08	17.80	18.27
8H	4H	15.74	16.54	16.20	16.98	17.45	16.71	17.51	17.17	17.95	18.42
	6H	16.00	16.66	16.50	17.15	17.63	16.74	17.40	17.24	17.89	18.37
	8H	16.04	16.63	16.55	17.14	17.63	16.72	17.31	17.23	17.81	18.30
	12H	16.06	16.58	16.57	17.07	17.64	16.70	17.22	17.21	17.71	18.28
12H	4H	15.72	16.44	16.20	16.91	17.39	16.69	17.41	17.18	17.89	18.36
	6H	15.97	16.56	16.48	17.07	17.56	16.72	17.31	17.23	17.81	18.30
	8H	16.04	16.56	16.55	17.05	17.61	16.71	17.23	17.22	17.72	18.29