

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: P1498289

Luminaire Tested: MAE-G-2-120-1STD-STD-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498289
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-2-120-1STD-STD-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

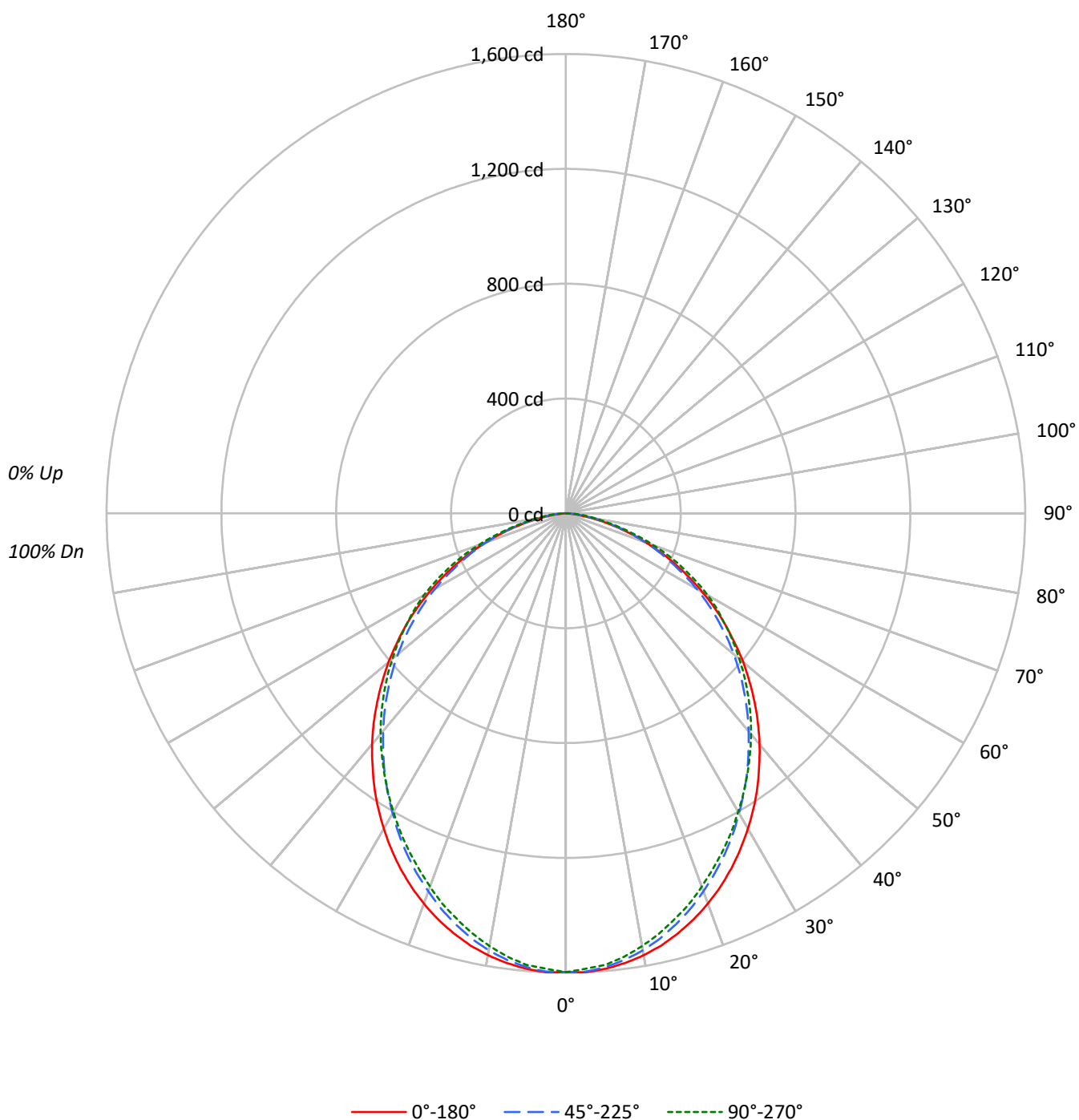
Lumens per Lamp: N/A
Luminaire Lumens: 3821.0 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 52.2
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	105	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	61	56		64
5	78	65	56	50	75	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	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4299	4299	4299
5°	4301	4284	4263
10°	4270	4223	4182
15°	4216	4128	4077
20°	4142	4012	3963
25°	4051	3887	3846
30°	3940	3748	3731
35°	3823	3616	3625
40°	3687	3478	3526
45°	3536	3342	3416
50°	3376	3197	3302
55°	3189	3027	3182
60°	2960	2833	3077
65°	2694	2582	2863
70°	2338	2323	2557
75°	1867	1981	2108
80°	1291	1534	1678
85°	722	1173	1531

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3536 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	3.9
10°-20°	418.0	10.9
20°-30°	607.0	15.9
30°-40°	698.3	18.3
40°-50°	691.0	18.1
50°-60°	591.6	15.5
60°-70°	417.4	10.9
70°-80°	203.3	5.3
80°-90°	44.4	1.2
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°	1174.9	30.7
0°-40°	1873.2	49.0
0°-60°	3155.8	82.6
0°-90°	3821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3821.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1598	1598	1598	1598	1598	
5°	1592	1591	1586	1575	1578	151
15°	1513	1505	1482	1462	1464	426
25°	1364	1344	1309	1292	1295	628
35°	1164	1136	1101	1096	1104	727
45°	929	904	878	888	898	717
55°	680	656	645	664	678	607
65°	423	405	406	436	450	419
75°	180	172	190	202	203	194
85°	23	29	38	46	50	33
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1597.7	1597.7	1597.7	1597.7	1597.7
2.5°	1599.6	1600.9	1597.7	1585.7	1587.7
5°	1592.2	1590.8	1586.0	1574.6	1578.2
7.5°	1579.5	1577.3	1568.6	1555.2	1557.4
10°	1562.6	1558.2	1545.4	1528.5	1530.4
12.5°	1540.8	1534.8	1516.6	1497.5	1499.5
15°	1513.4	1504.9	1481.7	1461.5	1463.5
17.5°	1482.1	1472.3	1444.1	1422.3	1426.7
20°	1446.5	1433.3	1401.0	1380.1	1383.9
22.5°	1407.3	1390.7	1356.7	1336.6	1339.5
25°	1364.2	1344.0	1309.2	1291.8	1295.3
27.5°	1317.7	1295.5	1259.6	1243.6	1249.0
30°	1268.1	1244.2	1206.2	1195.0	1200.8
32.5°	1217.2	1191.8	1154.1	1146.7	1152.6
35°	1163.6	1135.9	1100.8	1096.1	1103.5
37.5°	1106.4	1079.7	1045.0	1046.9	1053.8
40°	1049.7	1022.0	990.2	995.3	1003.7
42.5°	990.7	963.9	934.8	942.3	952.1
45°	929.2	903.7	878.1	888.3	897.6
47.5°	867.6	842.2	821.4	833.3	844.5
50°	806.3	782.0	763.6	778.2	788.8
52.5°	742.0	718.9	705.5	720.9	734.5
55°	679.7	656.2	645.3	663.8	678.3
57.5°	615.3	595.9	586.4	608.5	626.6
60°	549.9	530.8	526.4	554.4	571.7
62.5°	486.0	467.3	465.0	498.1	510.6
65°	423.1	404.6	405.5	436.3	449.7
67.5°	360.7	343.8	351.1	380.6	389.7
70°	297.1	282.0	295.2	320.3	325.0
72.5°	237.5	224.8	242.9	260.6	261.9
75°	179.6	171.6	190.5	202.4	202.7
77.5°	128.5	124.4	141.8	150.1	150.7
80°	83.3	85.2	99.0	105.5	108.3
82.5°	48.6	52.9	63.8	74.4	77.3
85°	23.4	28.6	38.0	46.1	49.6
87.5°	8.1	11.6	15.8	17.6	17.1
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	17.45	16.23	17.76	18.08	16.02	17.60	16.38	17.92	18.23
	3H	17.32	18.74	17.69	19.07	19.43	17.67	19.09	18.05	19.42	19.78
	4H	17.75	19.09	18.15	19.43	19.81	18.18	19.51	18.57	19.86	20.24
	6H	17.97	19.21	18.38	19.57	19.96	18.48	19.71	18.89	20.08	20.47
	8H	18.00	19.18	18.43	19.57	19.97	18.57	19.75	18.99	20.13	20.53
	12H	18.01	19.14	18.44	19.52	19.95	18.63	19.76	19.06	20.14	20.57
4H	2H	16.38	17.72	16.78	18.07	18.44	16.51	17.84	16.90	18.19	18.57
	3H	18.02	19.13	18.43	19.53	19.93	18.36	19.47	18.77	19.87	20.27
	4H	18.53	19.54	18.96	19.95	20.39	18.98	19.98	19.41	20.40	20.84
	6H	18.83	19.71	19.29	20.15	20.61	19.38	20.26	19.84	20.70	21.16
	8H	18.89	19.71	19.35	20.15	20.61	19.51	20.33	19.97	20.77	21.23
	12H	18.91	19.64	19.39	20.12	20.59	19.61	20.34	20.09	20.82	21.29
8H	4H	18.76	19.57	19.22	20.02	20.48	19.16	19.98	19.62	20.42	20.89
	6H	19.13	19.80	19.62	20.29	20.77	19.65	20.32	20.14	20.81	21.29
	8H	19.21	19.82	19.73	20.33	20.81	19.83	20.43	20.34	20.94	21.43
	12H	19.27	19.80	19.77	20.29	20.86	19.99	20.52	20.49	21.01	21.57
12H	4H	18.77	19.50	19.25	19.98	20.45	19.16	19.89	19.64	20.37	20.84
	6H	19.15	19.75	19.66	20.26	20.75	19.65	20.26	20.16	20.77	21.25
	8H	19.28	19.81	19.78	20.30	20.86	19.88	20.41	20.38	20.90	21.46