

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: P1498511

Luminaire Tested: MAE-G-2-120-2STD-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2STD-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

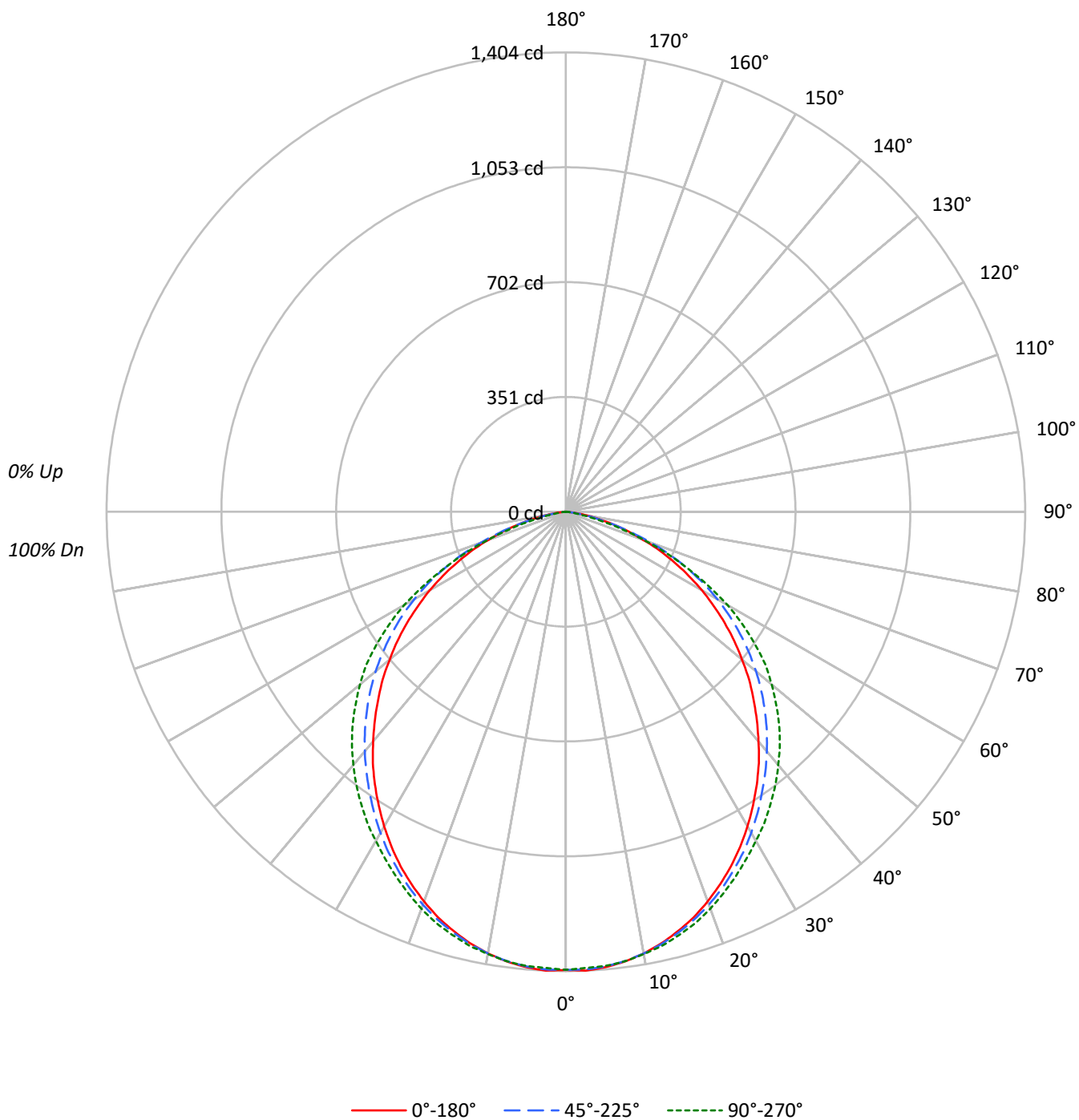
Lumens per Lamp: N/A
Luminaire Lumens: 3534.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
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	102	98	107	103	100	97	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	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		54	48	43		53
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3767	3767	3767
5°	3774	3768	3764
10°	3745	3745	3750
15°	3695	3708	3731
20°	3629	3659	3697
25°	3548	3595	3649
30°	3451	3521	3610
35°	3342	3436	3583
40°	3218	3359	3549
45°	3087	3274	3510
50°	2943	3176	3439
55°	2781	3049	3310
60°	2584	2878	3073
65°	2331	2615	2630
70°	1990	2177	2035
75°	1563	1576	1271
80°	1017	810	487
85°	469	309	250

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3510 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.2	3.7
10°-20°	375.0	10.6
20°-30°	557.1	15.8
30°-40°	656.2	18.6
40°-50°	664.8	18.8
50°-60°	578.6	16.4
60°-70°	394.3	11.2
70°-80°	157.6	4.5
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°	1064.4	30.1
0°-40°	1720.6	48.7
0°-60°	2964.0	83.9
0°-90°	3534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3534.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1400	1400	1400	1400	1400	
5°	1397	1389	1395	1393	1393	133
15°	1326	1321	1331	1336	1339	374
25°	1195	1196	1211	1221	1229	550
35°	1017	1022	1046	1073	1091	636
45°	811	821	860	901	922	626
55°	593	606	650	691	706	530
65°	366	383	411	411	413	363
75°	150	159	152	130	122	162
85°	15	14	10	9	8	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1400.0	1400.0	1400.0	1400.0	1400.0
2.5°	1403.9	1394.8	1400.0	1399.0	1395.3
5°	1397.2	1389.1	1394.8	1393.0	1393.4
7.5°	1386.2	1378.7	1384.9	1384.3	1385.8
10°	1370.6	1363.0	1370.6	1371.0	1372.5
12.5°	1351.0	1344.4	1353.4	1355.3	1358.7
15°	1326.3	1320.7	1331.1	1335.9	1339.2
17.5°	1299.8	1296.0	1306.4	1312.6	1317.8
20°	1267.4	1265.5	1277.9	1284.0	1291.1
22.5°	1232.2	1231.2	1246.1	1253.6	1260.8
25°	1195.1	1195.6	1210.9	1220.8	1228.9
27.5°	1154.2	1155.2	1173.8	1185.6	1195.6
30°	1110.5	1112.9	1133.3	1149.5	1161.9
32.5°	1064.4	1068.7	1090.6	1112.9	1128.6
35°	1017.3	1022.1	1045.9	1073.4	1090.6
37.5°	968.9	974.1	1001.7	1034.0	1052.1
40°	916.1	924.1	956.1	991.7	1010.2
42.5°	864.2	873.3	909.0	948.0	967.9
45°	811.1	821.0	860.4	900.9	922.2
47.5°	759.7	768.2	810.5	852.9	871.9
50°	703.1	714.5	758.7	801.1	821.5
52.5°	648.9	659.9	705.0	748.2	769.2
55°	592.8	605.6	649.9	690.7	705.5
57.5°	536.3	551.0	593.8	627.5	640.3
60°	480.2	494.9	534.8	561.4	571.0
62.5°	423.5	438.8	474.0	490.2	492.1
65°	366.1	383.2	410.7	411.3	413.1
67.5°	311.4	325.6	345.6	339.9	337.1
70°	252.9	268.6	276.7	265.3	258.6
72.5°	201.1	212.5	211.1	194.4	186.4
75°	150.3	159.3	151.6	130.3	122.2
77.5°	104.1	111.7	96.5	76.5	68.5
80°	65.6	68.9	52.3	37.1	31.4
82.5°	35.2	34.7	22.4	18.5	17.1
85°	15.2	13.8	10.0	9.0	8.1
87.5°	5.3	4.7	3.8	3.4	2.8
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	15.52	17.11	15.89	17.42	17.73	16.49	18.07	16.85	18.38	18.70
	3H	16.95	18.37	17.32	18.69	19.05	17.68	19.10	18.05	19.42	19.78
	4H	17.34	18.67	17.74	19.02	19.40	17.89	19.22	18.29	19.57	19.95
	6H	17.51	18.74	17.92	19.11	19.50	17.91	19.14	18.32	19.50	19.90
	8H	17.53	18.70	17.95	19.09	19.49	17.88	19.06	18.31	19.45	19.85
	12H	17.52	18.64	17.95	19.02	19.45	17.86	18.98	18.29	19.36	19.79
4H	2H	16.19	17.52	16.58	17.87	18.24	16.96	18.29	17.36	18.64	19.02
	3H	17.76	18.87	18.17	19.27	19.67	18.31	19.41	18.72	19.81	20.21
	4H	18.24	19.23	18.67	19.65	20.08	18.58	19.57	19.01	19.98	20.42
	6H	18.48	19.34	18.94	19.78	20.24	18.63	19.49	19.08	19.93	20.39
	8H	18.50	19.30	18.96	19.75	20.21	18.60	19.41	19.07	19.85	20.32
	12H	18.50	19.22	18.98	19.70	20.17	18.58	19.30	19.06	19.78	20.25
8H	4H	18.38	19.18	18.84	19.62	20.09	18.69	19.49	19.15	19.94	20.40
	6H	18.65	19.31	19.15	19.80	20.28	18.75	19.41	19.25	19.90	20.38
	8H	18.69	19.28	19.20	19.79	20.28	18.73	19.32	19.24	19.83	20.32
	12H	18.70	19.22	19.21	19.71	20.28	18.71	19.23	19.22	19.72	20.29
12H	4H	18.36	19.07	18.84	19.55	20.02	18.68	19.40	19.16	19.88	20.35
	6H	18.62	19.21	19.13	19.72	20.21	18.73	19.32	19.24	19.83	20.32
	8H	18.68	19.21	19.19	19.70	20.26	18.73	19.25	19.24	19.74	20.30