

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: P1498697

Luminaire Tested: MAE-G-2-120-3LO-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3LO-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

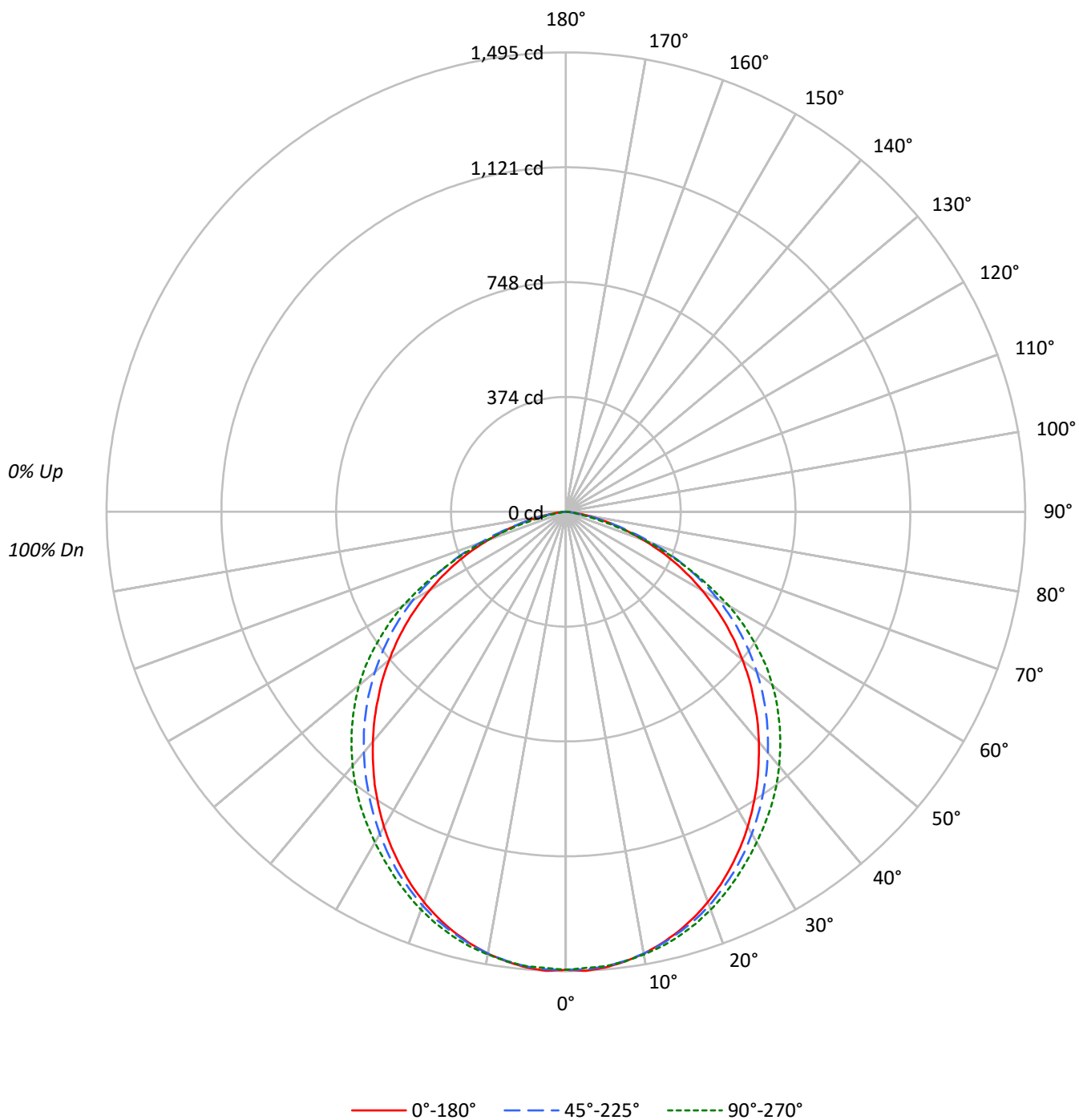
Lumens per Lamp: N/A
Luminaire Lumens: 3778.0 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.7
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	65	59	55	53		
5	78	65	56	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4011	4011	4011
5°	4020	4012	4010
10°	3990	3988	3998
15°	3940	3952	3981
20°	3871	3906	3947
25°	3781	3842	3902
30°	3679	3762	3860
35°	3563	3676	3831
40°	3433	3593	3793
45°	3293	3505	3745
50°	3141	3396	3678
55°	2972	3265	3537
60°	2758	3085	3300
65°	2491	2813	2826
70°	2126	2362	2197
75°	1670	1724	1352
80°	1089	886	522
85°	522	352	278

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3745 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	3.7
10°-20°	399.7	10.6
20°-30°	594.5	15.7
30°-40°	700.6	18.5
40°-50°	710.3	18.8
50°-60°	619.0	16.4
60°-70°	423.3	11.2
70°-80°	170.0	4.5
80°-90°	19.7	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°	1135.1	30.0
0°-40°	1835.7	48.6
0°-60°	3164.9	83.8
0°-90°	3778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3778.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1491	1491	1491	1491	1491	
5°	1488	1479	1485	1483	1484	141
15°	1414	1408	1419	1424	1429	398
25°	1273	1274	1294	1303	1314	586
35°	1085	1089	1119	1147	1166	678
45°	865	877	921	962	984	668
55°	634	647	696	740	754	565
65°	391	409	442	445	444	387
75°	161	171	166	142	130	172
85°	17	15	11	10	9	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1490.6	1490.6	1490.6	1490.6	1490.6
2.5°	1495.4	1485.4	1490.6	1489.6	1485.7
5°	1488.2	1479.2	1485.1	1483.4	1484.4
7.5°	1476.5	1468.2	1474.4	1474.1	1475.8
10°	1460.3	1452.0	1459.6	1461.0	1463.0
12.5°	1438.9	1432.0	1441.3	1444.1	1448.2
15°	1414.1	1407.9	1418.6	1424.4	1428.9
17.5°	1385.1	1379.9	1393.7	1399.3	1405.5
20°	1351.7	1347.9	1364.1	1369.3	1378.3
22.5°	1314.5	1312.4	1329.3	1337.2	1347.6
25°	1273.4	1273.8	1293.8	1303.2	1314.1
27.5°	1230.4	1231.1	1253.9	1266.9	1278.6
30°	1183.9	1185.9	1210.7	1227.0	1242.4
32.5°	1134.6	1138.7	1165.6	1187.7	1204.9
35°	1084.6	1089.4	1119.1	1146.6	1166.3
37.5°	1030.5	1038.4	1071.9	1104.6	1124.9
40°	977.4	985.3	1022.9	1059.1	1079.8
42.5°	922.6	932.6	972.6	1012.9	1032.9
45°	865.4	877.1	920.9	962.3	984.0
47.5°	810.6	821.0	867.1	910.2	932.6
50°	750.3	763.4	811.3	856.5	878.5
52.5°	692.7	704.8	754.1	800.3	820.3
55°	633.5	646.9	695.9	739.6	753.8
57.5°	572.8	589.0	636.2	672.8	686.2
60°	512.5	528.7	573.2	603.2	613.1
62.5°	452.5	469.8	508.7	528.7	528.7
65°	391.2	408.8	441.8	445.3	443.9
67.5°	329.8	347.4	372.6	366.3	362.2
70°	270.2	285.4	300.2	288.8	279.2
72.5°	212.3	226.8	229.2	212.7	200.6
75°	160.6	171.3	165.8	142.4	130.0
77.5°	112.0	118.2	106.5	82.7	72.7
80°	70.3	73.1	57.2	40.3	33.7
82.5°	37.9	38.2	24.8	20.3	19.0
85°	16.9	15.2	11.4	10.0	9.0
87.5°	5.9	5.2	4.1	3.8	3.1
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	15.75	17.34	16.12	17.65	17.96	16.74	18.32	17.10	18.63	18.95
	3H	17.16	18.58	17.54	18.91	19.27	17.94	19.36	18.32	19.69	20.05
	4H	17.56	18.89	17.96	19.24	19.62	18.16	19.49	18.56	19.84	20.22
	6H	17.73	18.96	18.14	19.33	19.72	18.17	19.41	18.59	19.77	20.16
	8H	17.75	18.92	18.17	19.31	19.71	18.15	19.32	18.58	19.71	20.11
	12H	17.74	18.86	18.17	19.24	19.67	18.13	19.25	18.56	19.63	20.06
4H	2H	16.42	17.76	16.82	18.11	18.48	17.21	18.55	17.61	18.90	19.27
	3H	17.99	19.10	18.40	19.50	19.90	18.58	19.69	18.99	20.09	20.49
	4H	18.47	19.46	18.90	19.88	20.31	18.86	19.85	19.29	20.26	20.70
	6H	18.71	19.57	19.16	20.01	20.47	18.91	19.77	19.36	20.21	20.67
	8H	18.73	19.54	19.19	19.98	20.45	18.88	19.69	19.35	20.13	20.60
	12H	18.73	19.45	19.21	19.93	20.40	18.86	19.58	19.34	20.06	20.53
8H	4H	18.61	19.42	19.08	19.86	20.33	18.97	19.78	19.44	20.22	20.69
	6H	18.89	19.55	19.38	20.04	20.52	19.03	19.70	19.53	20.19	20.66
	8H	18.93	19.52	19.44	20.03	20.52	19.01	19.60	19.52	20.11	20.60
	12H	18.94	19.46	19.45	19.96	20.52	19.00	19.52	19.51	20.01	20.57
12H	4H	18.60	19.31	19.08	19.79	20.26	18.96	19.68	19.44	20.16	20.63
	6H	18.86	19.45	19.37	19.96	20.45	19.01	19.60	19.52	20.11	20.60
	8H	18.92	19.45	19.43	19.94	20.50	19.01	19.53	19.52	20.03	20.59