

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: P1498190

Luminaire Tested: MAE-G-2-120-1LO-LO-50-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498190
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-2-120-1LO-LO-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

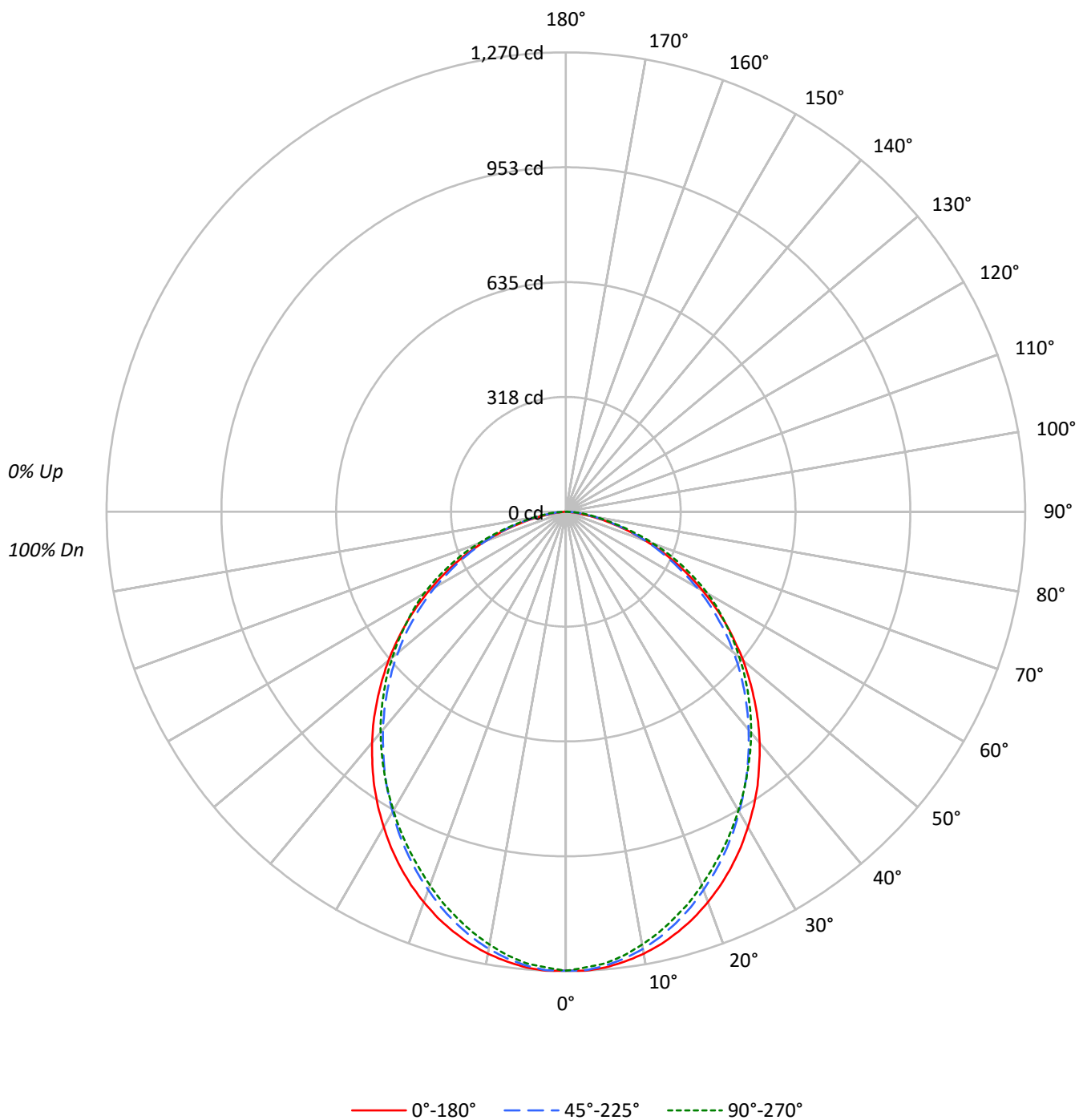
Lumens per Lamp: N/A
Luminaire Lumens: 3034.0 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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°	3414	3414	3414
5°	3415	3402	3385
10°	3390	3353	3321
15°	3348	3278	3238
20°	3289	3186	3147
25°	3216	3086	3054
30°	3129	2976	2963
35°	3035	2871	2879
40°	2928	2762	2799
45°	2808	2654	2712
50°	2681	2538	2622
55°	2532	2404	2526
60°	2350	2249	2443
65°	2139	2050	2274
70°	1857	1845	2031
75°	1482	1573	1674
80°	1026	1218	1333
85°	574	932	1216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2808 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	3.9
10°-20°	331.9	10.9
20°-30°	482.0	15.9
30°-40°	554.5	18.3
40°-50°	548.7	18.1
50°-60°	469.7	15.5
60°-70°	331.4	10.9
70°-80°	161.4	5.3
80°-90°	35.3	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°	932.9	30.7
0°-40°	1487.4	49.0
0°-60°	2505.8	82.6
0°-90°	3034.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3034.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1264	1263	1259	1250	1253	120
15°	1202	1195	1177	1160	1162	339
25°	1083	1067	1040	1026	1028	499
35°	924	902	874	870	876	577
45°	738	718	697	705	713	569
55°	540	521	512	527	538	482
65°	336	321	322	346	357	332
75°	142	136	151	161	161	154
85°	19	23	30	37	39	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1268.7	1268.7	1268.7	1268.7	1268.7
2.5°	1270.1	1271.1	1268.7	1259.1	1260.8
5°	1264.3	1263.2	1259.4	1250.4	1253.2
7.5°	1254.2	1252.4	1245.6	1234.8	1236.7
10°	1240.8	1237.3	1227.0	1213.6	1215.2
12.5°	1223.4	1218.7	1204.3	1189.1	1190.7
15°	1201.8	1194.9	1176.6	1160.5	1162.1
17.5°	1176.8	1169.1	1146.8	1129.3	1132.9
20°	1148.6	1138.1	1112.4	1095.8	1098.9
22.5°	1117.5	1104.3	1077.3	1061.3	1063.6
25°	1083.3	1067.2	1039.5	1025.7	1028.5
27.5°	1046.3	1028.7	1000.2	987.5	991.8
30°	1006.9	988.0	957.7	948.8	953.5
32.5°	966.5	946.2	916.4	910.5	915.2
35°	924.0	902.0	874.1	870.3	876.3
37.5°	878.5	857.3	829.8	831.3	836.8
40°	833.5	811.5	786.3	790.3	796.9
42.5°	786.7	765.4	742.3	748.1	755.9
45°	737.8	717.6	697.3	705.3	712.7
47.5°	688.9	668.7	652.2	661.6	670.5
50°	640.3	621.0	606.3	617.9	626.2
52.5°	589.2	570.8	560.2	572.4	583.2
55°	539.7	521.0	512.4	527.1	538.5
57.5°	488.6	473.2	465.6	483.1	497.5
60°	436.7	421.5	417.9	440.2	453.9
62.5°	385.9	371.0	369.3	395.5	405.4
65°	336.0	321.3	322.0	346.4	357.1
67.5°	286.4	272.9	278.7	302.2	309.4
70°	236.0	224.0	234.5	254.4	258.1
72.5°	188.6	178.5	192.8	207.0	207.9
75°	142.5	136.3	151.3	160.7	161.0
77.5°	102.0	98.8	112.7	119.2	119.8
80°	66.2	67.6	78.6	83.8	86.0
82.5°	38.6	42.0	50.7	59.2	61.4
85°	18.6	22.7	30.2	36.6	39.4
87.5°	6.4	9.2	12.6	14.0	13.6
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	15.07	16.65	15.43	16.96	17.28	15.22	16.80	15.58	17.11	17.43
	3H	16.52	17.94	16.89	18.27	18.63	16.87	18.29	17.24	18.62	18.98
	4H	16.95	18.28	17.34	18.63	19.01	17.37	18.71	17.77	19.06	19.44
	6H	17.17	18.40	17.58	18.77	19.16	17.67	18.91	18.09	19.28	19.67
	8H	17.20	18.38	17.63	18.77	19.17	17.76	18.94	18.19	19.33	19.73
	12H	17.21	18.34	17.64	18.72	19.15	17.83	18.96	18.26	19.34	19.77
4H	2H	15.58	16.92	15.98	17.27	17.64	15.70	17.04	16.10	17.39	17.77
	3H	17.22	18.33	17.63	18.73	19.13	17.56	18.67	17.97	19.07	19.47
	4H	17.73	18.73	18.16	19.15	19.59	18.18	19.18	18.61	19.60	20.03
	6H	18.03	18.91	18.49	19.35	19.81	18.58	19.46	19.04	19.90	20.36
	8H	18.09	18.90	18.55	19.35	19.81	18.71	19.52	19.17	19.97	20.43
	12H	18.11	18.84	18.59	19.32	19.79	18.81	19.54	19.29	20.02	20.49
8H	4H	17.96	18.77	18.42	19.22	19.68	18.36	19.18	18.82	19.62	20.09
	6H	18.32	19.00	18.82	19.49	19.97	18.85	19.52	19.34	20.01	20.49
	8H	18.41	19.02	18.92	19.53	20.01	19.03	19.63	19.54	20.14	20.63
	12H	18.47	19.00	18.97	19.49	20.05	19.19	19.72	19.69	20.21	20.77
12H	4H	17.97	18.70	18.45	19.18	19.65	18.36	19.09	18.84	19.57	20.04
	6H	18.35	18.95	18.86	19.46	19.95	18.85	19.46	19.36	19.97	20.45
	8H	18.48	19.01	18.98	19.50	20.06	19.08	19.61	19.58	20.10	20.66