

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: P1498169

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498169
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-30-90-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

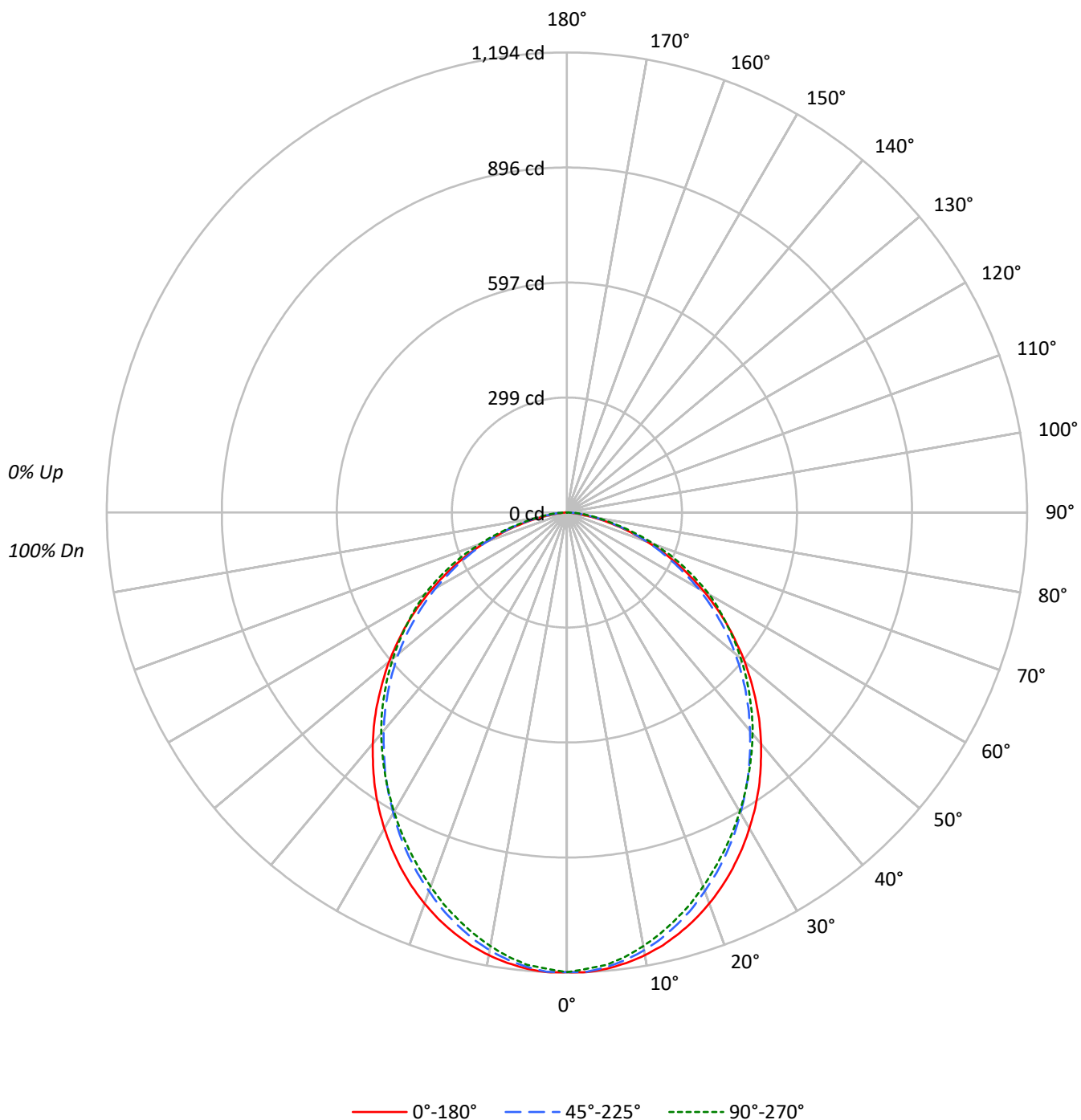
Lumens per Lamp: N/A
Luminaire Lumens: 2853.0 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	3210	3210	3210
5°	3211	3199	3183
10°	3188	3153	3122
15°	3148	3082	3044
20°	3093	2996	2959
25°	3024	2902	2871
30°	2942	2798	2786
35°	2854	2700	2707
40°	2753	2597	2633
45°	2641	2495	2550
50°	2520	2387	2465
55°	2381	2260	2376
60°	2210	2115	2298
65°	2011	1928	2138
70°	1746	1735	1910
75°	1393	1478	1574
80°	965	1145	1254
85°	540	877	1142

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2641 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	3.9
10°-20°	312.1	10.9
20°-30°	453.2	15.9
30°-40°	521.4	18.3
40°-50°	516.0	18.1
50°-60°	441.7	15.5
60°-70°	311.7	10.9
70°-80°	151.8	5.3
80°-90°	33.2	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°	877.2	30.7
0°-40°	1398.7	49.0
0°-60°	2356.3	82.6
0°-90°	2853.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2853.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1193	1193	1193	1193	1193	
5°	1189	1188	1184	1176	1178	113
15°	1130	1124	1106	1091	1093	318
25°	1019	1004	977	964	967	469
35°	869	848	822	818	824	543
45°	694	675	656	663	670	535
55°	508	490	482	496	506	453
65°	316	302	303	326	336	313
75°	134	128	142	151	151	145
85°	18	21	28	34	37	25
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1193.0	1193.0	1193.0	1193.0	1193.0
2.5°	1194.3	1195.3	1193.0	1183.9	1185.5
5°	1188.8	1187.8	1184.2	1175.8	1178.4
7.5°	1179.4	1177.7	1171.2	1161.2	1162.9
10°	1166.8	1163.5	1153.9	1141.3	1142.7
12.5°	1150.5	1146.0	1132.4	1118.2	1119.7
15°	1130.0	1123.6	1106.4	1091.2	1092.8
17.5°	1106.6	1099.3	1078.3	1061.9	1065.3
20°	1080.1	1070.1	1046.1	1030.5	1033.3
22.5°	1050.8	1038.4	1013.1	998.0	1000.2
25°	1018.6	1003.6	977.4	964.5	967.1
27.5°	983.9	967.3	940.5	928.6	932.6
30°	946.9	929.1	900.6	892.2	896.6
32.5°	908.9	889.8	861.8	856.2	860.5
35°	868.9	848.2	821.9	818.4	823.9
37.5°	826.1	806.2	780.3	781.6	786.8
40°	783.7	763.1	739.3	743.1	749.4
42.5°	739.7	719.8	698.1	703.5	710.9
45°	693.9	674.8	655.7	663.2	670.1
47.5°	647.8	628.9	613.3	622.1	630.5
50°	602.0	583.9	570.2	581.0	588.9
52.5°	554.0	536.8	526.7	538.3	548.4
55°	507.6	489.9	481.8	495.7	506.4
57.5°	459.4	444.9	437.9	454.3	467.8
60°	410.6	396.3	393.0	413.9	426.9
62.5°	362.9	348.9	347.2	371.9	381.2
65°	315.9	302.1	302.8	325.7	335.8
67.5°	269.3	256.7	262.1	284.2	291.0
70°	221.9	210.6	220.5	239.3	242.7
72.5°	177.3	167.9	181.3	194.6	195.6
75°	134.0	128.2	142.2	151.1	151.4
77.5°	95.9	92.9	105.9	112.1	112.6
80°	62.3	63.6	73.9	78.8	80.9
82.5°	36.3	39.5	47.6	55.6	57.8
85°	17.5	21.4	28.4	34.5	37.0
87.5°	6.1	8.7	11.8	13.1	12.7
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	14.85	16.43	15.22	16.75	17.06	15.00	16.59	15.37	16.90	17.22
	3H	16.30	17.73	16.68	18.05	18.41	16.65	18.08	17.03	18.41	18.77
	4H	16.73	18.07	17.13	18.42	18.80	17.16	18.50	17.56	18.85	19.22
	6H	16.95	18.19	17.36	18.56	18.95	17.46	18.70	17.87	19.06	19.46
	8H	16.99	18.17	17.41	18.56	18.96	17.55	18.73	17.98	19.12	19.52
	12H	16.99	18.12	17.42	18.50	18.93	17.61	18.74	18.04	19.13	19.56
4H	2H	15.36	16.70	15.76	17.05	17.43	15.49	16.83	15.89	17.18	17.55
	3H	17.00	18.12	17.41	18.52	18.92	17.34	18.46	17.75	18.86	19.26
	4H	17.52	18.52	17.95	18.93	19.37	17.96	18.97	18.40	19.38	19.82
	6H	17.82	18.69	18.27	19.13	19.59	18.37	19.24	18.82	19.68	20.14
	8H	17.87	18.69	18.34	19.13	19.60	18.49	19.31	18.96	19.75	20.22
	12H	17.90	18.63	18.38	19.10	19.58	18.59	19.33	19.08	19.80	20.27
8H	4H	17.74	18.56	18.20	19.00	19.47	18.15	18.96	18.61	19.41	19.87
	6H	18.11	18.79	18.61	19.28	19.75	18.63	19.31	19.13	19.80	20.27
	8H	18.20	18.80	18.71	19.31	19.80	18.81	19.42	19.32	19.93	20.41
	12H	18.25	18.79	18.76	19.28	19.84	18.97	19.51	19.48	20.00	20.56
12H	4H	17.75	18.49	18.23	18.96	19.43	18.15	18.88	18.63	19.35	19.83
	6H	18.13	18.74	18.64	19.25	19.73	18.64	19.25	19.15	19.75	20.24
	8H	18.26	18.80	18.77	19.29	19.85	18.86	19.40	19.37	19.89	20.45