

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: P1498178

Luminaire Tested: MAE-G-2-120-1LO-LO-35-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498178
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-35-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

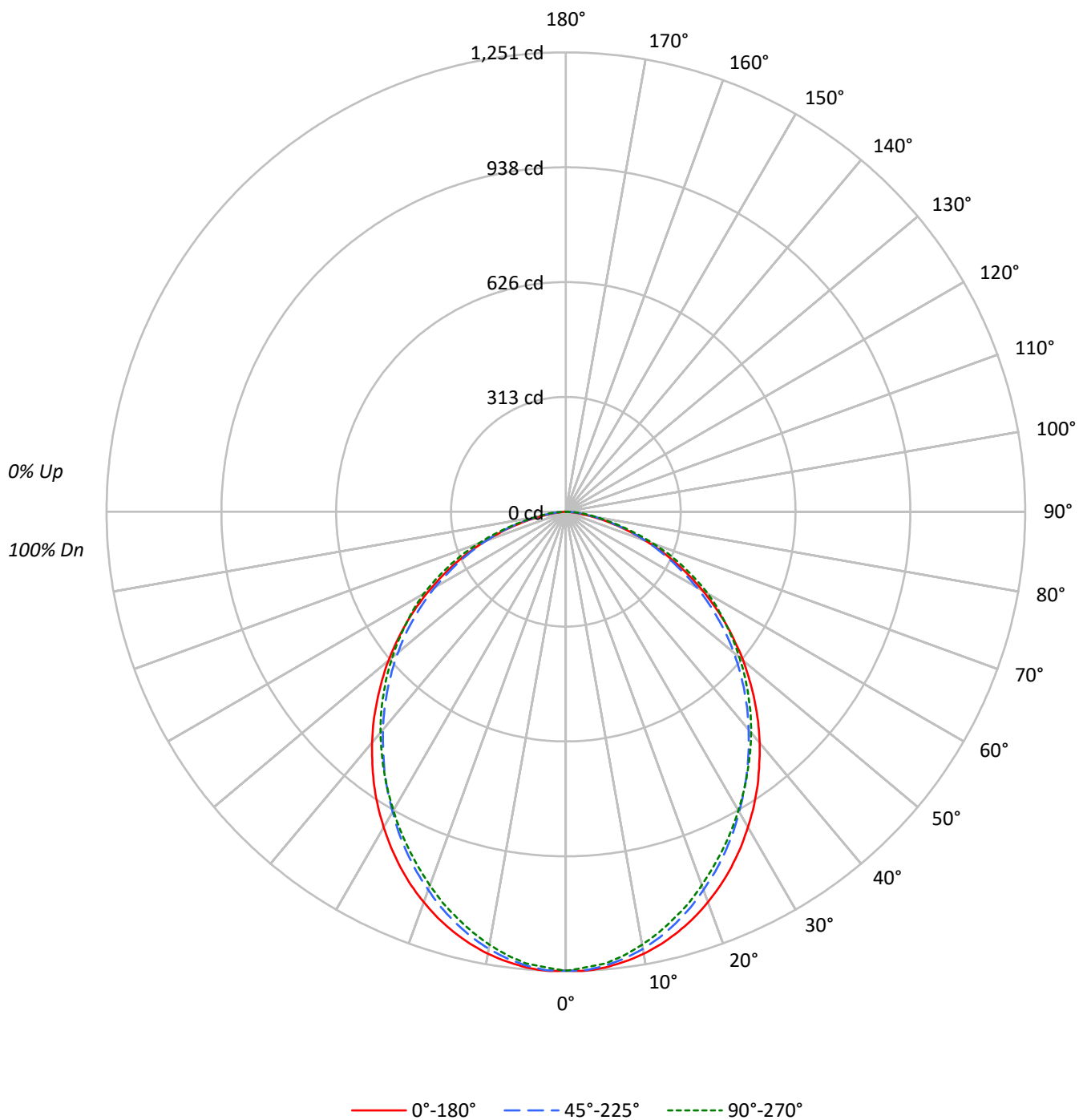
Lumens per Lamp: N/A
Luminaire Lumens: 2989.0 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	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	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	53		
5	78	65	56	50	75	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	45	39	51	44	39	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3363	3363	3363
5°	3365	3351	3335
10°	3340	3303	3271
15°	3299	3229	3190
20°	3240	3138	3100
25°	3169	3041	3008
30°	3082	2932	2919
35°	2990	2829	2836
40°	2884	2721	2758
45°	2766	2614	2672
50°	2641	2501	2583
55°	2495	2368	2489
60°	2316	2216	2407
65°	2107	2020	2240
70°	1828	1817	2001
75°	1461	1549	1649
80°	1010	1201	1314
85°	565	917	1195

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2766 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.3	3.9
10°-20°	326.9	10.9
20°-30°	474.8	15.9
30°-40°	546.3	18.3
40°-50°	540.6	18.1
50°-60°	462.8	15.5
60°-70°	326.5	10.9
70°-80°	159.1	5.3
80°-90°	34.8	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°	919.1	30.7
0°-40°	1465.3	49.0
0°-60°	2468.7	82.6
0°-90°	2989.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2989.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1250	1250	1250	1250	1250	
5°	1246	1244	1241	1232	1235	118
15°	1184	1177	1159	1143	1145	334
25°	1067	1051	1024	1010	1013	491
35°	910	889	861	857	863	569
45°	727	707	687	695	702	561
55°	532	513	505	519	530	475
65°	331	316	317	341	352	327
75°	140	134	149	158	159	152
85°	18	22	30	36	39	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1249.8	1249.8	1249.8	1249.8	1249.8
2.5°	1251.3	1252.3	1249.8	1240.5	1242.1
5°	1245.6	1244.5	1240.7	1231.8	1234.7
7.5°	1235.5	1233.8	1227.0	1216.6	1218.3
10°	1222.4	1218.9	1208.9	1195.7	1197.2
12.5°	1205.3	1200.6	1186.4	1171.4	1173.0
15°	1184.0	1177.2	1159.1	1143.3	1144.9
17.5°	1159.4	1151.7	1129.7	1112.6	1116.1
20°	1131.5	1121.2	1095.9	1079.6	1082.5
22.5°	1101.0	1087.9	1061.4	1045.6	1047.8
25°	1067.2	1051.4	1024.1	1010.5	1013.2
27.5°	1030.8	1013.4	985.3	972.8	977.0
30°	992.0	973.2	943.5	934.8	939.3
32.5°	952.1	932.3	902.9	897.0	901.7
35°	910.3	888.6	861.1	857.4	863.2
37.5°	865.5	844.6	817.4	818.9	824.4
40°	821.1	799.5	774.6	778.6	785.1
42.5°	775.0	754.0	731.3	737.0	744.8
45°	726.9	706.9	687.0	694.8	702.2
47.5°	678.6	658.9	642.5	651.8	660.6
50°	630.8	611.7	597.3	608.8	617.0
52.5°	580.4	562.3	551.8	563.9	574.6
55°	531.7	513.3	504.8	519.3	530.5
57.5°	481.3	466.2	458.8	475.9	490.2
60°	430.3	415.3	411.8	433.7	447.2
62.5°	380.2	365.6	363.8	389.6	399.4
65°	330.9	316.5	317.2	341.2	351.8
67.5°	282.2	268.9	274.6	297.8	304.9
70°	232.4	220.7	231.0	250.6	254.3
72.5°	185.8	175.9	190.0	203.9	204.9
75°	140.5	134.3	149.0	158.4	158.6
77.5°	100.5	97.3	111.0	117.5	117.9
80°	65.2	66.7	77.5	82.6	84.8
82.5°	38.0	41.4	49.9	58.2	60.5
85°	18.3	22.3	29.7	36.2	38.7
87.5°	6.4	9.1	12.4	13.8	13.4
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	15.01	16.60	15.38	16.91	17.23	15.17	16.75	15.53	17.06	17.38
	3H	16.46	17.89	16.84	18.22	18.58	16.82	18.24	17.19	18.57	18.93
	4H	16.89	18.23	17.29	18.58	18.96	17.32	18.66	17.72	19.01	19.39
	6H	17.11	18.35	17.53	18.72	19.11	17.62	18.86	18.03	19.23	19.62
	8H	17.15	18.33	17.57	18.72	19.12	17.71	18.89	18.14	19.28	19.68
	12H	17.15	18.28	17.58	18.67	19.10	17.78	18.91	18.21	19.29	19.72
4H	2H	15.53	16.87	15.93	17.21	17.59	15.65	16.99	16.05	17.34	17.71
	3H	17.16	18.28	17.57	18.68	19.08	17.51	18.62	17.92	19.02	19.42
	4H	17.68	18.68	18.11	19.10	19.53	18.13	19.13	18.56	19.55	19.98
	6H	17.98	18.85	18.44	19.30	19.75	18.53	19.41	18.99	19.85	20.30
	8H	18.04	18.85	18.50	19.30	19.76	18.66	19.47	19.12	19.92	20.38
	12H	18.06	18.79	18.54	19.27	19.74	18.76	19.49	19.24	19.96	20.43
8H	4H	17.90	18.72	18.37	19.16	19.63	18.31	19.13	18.77	19.57	20.04
	6H	18.27	18.95	18.77	19.44	19.91	18.80	19.47	19.29	19.96	20.44
	8H	18.36	18.97	18.87	19.47	19.96	18.97	19.58	19.49	20.09	20.57
	12H	18.41	18.95	18.92	19.44	20.00	19.13	19.67	19.64	20.16	20.72
12H	4H	17.92	18.65	18.40	19.12	19.59	18.31	19.04	18.79	19.52	19.99
	6H	18.29	18.90	18.81	19.41	19.90	18.80	19.41	19.31	19.92	20.40
	8H	18.42	18.96	18.93	19.45	20.01	19.02	19.56	19.53	20.05	20.61