

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: P1498177

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498177
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-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

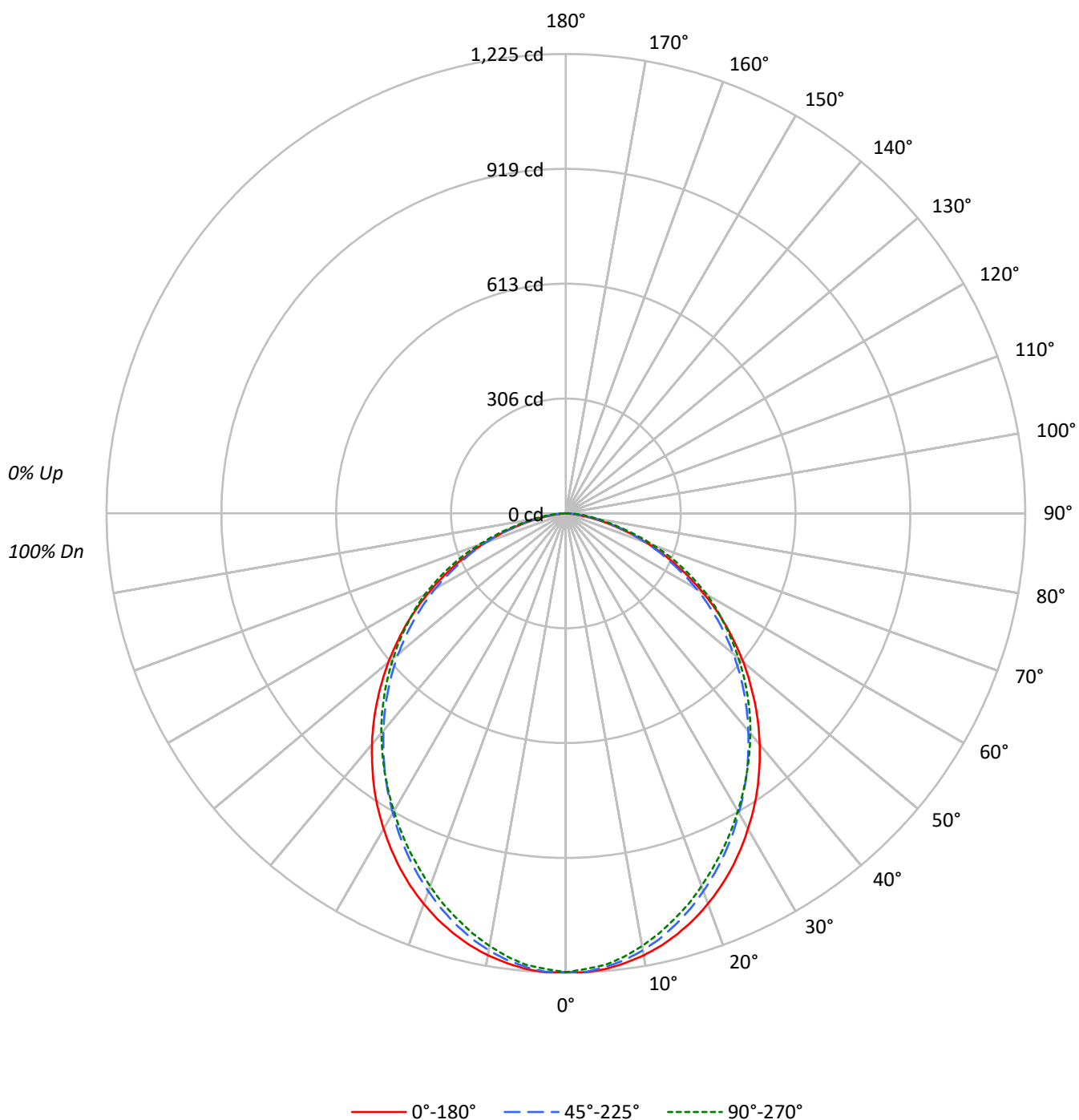
Lumens per Lamp: N/A
Luminaire Lumens: 2923.0 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	109	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°	3293	3293	3293
5°	3294	3281	3265
10°	3270	3233	3201
15°	3230	3160	3119
20°	3173	3070	3030
25°	3103	2973	2939
30°	3019	2866	2849
35°	2929	2765	2767
40°	2826	2659	2689
45°	2711	2554	2604
50°	2588	2442	2516
55°	2445	2312	2424
60°	2271	2164	2344
65°	2067	1973	2186
70°	1795	1777	1959
75°	1434	1521	1626
80°	993	1185	1305
85°	556	911	1192

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2711 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	3.9
10°-20°	319.9	10.9
20°-30°	464.3	15.9
30°-40°	534.0	18.3
40°-50°	528.1	18.1
50°-60°	452.0	15.5
60°-70°	319.2	10.9
70°-80°	156.2	5.3
80°-90°	34.4	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°	899.1	30.8
0°-40°	1433.1	49.0
0°-60°	2413.2	82.6
0°-90°	2923.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2923.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1224	1224	1224	1224	1224	
5°	1220	1218	1215	1206	1209	116
15°	1159	1152	1134	1118	1120	327
25°	1045	1029	1001	987	990	481
35°	892	870	842	837	842	557
45°	712	692	671	678	684	549
55°	521	502	493	506	517	465
65°	325	310	310	333	343	321
75°	138	132	146	156	156	149
85°	18	22	30	36	39	25
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1223.6	1223.6	1223.6	1223.6	1223.6
2.5°	1225.0	1226.0	1223.6	1214.4	1216.0
5°	1219.5	1218.4	1214.6	1205.7	1208.6
7.5°	1209.7	1208.0	1201.2	1190.7	1192.4
10°	1196.8	1193.3	1183.2	1170.0	1171.4
12.5°	1180.1	1175.4	1161.1	1146.0	1147.4
15°	1159.3	1152.5	1134.2	1118.1	1119.6
17.5°	1135.2	1127.5	1105.3	1087.8	1091.1
20°	1108.0	1097.6	1072.0	1055.3	1058.0
22.5°	1078.2	1065.0	1038.1	1021.9	1023.8
25°	1045.1	1029.2	1001.4	987.2	989.7
27.5°	1009.6	992.0	963.3	950.3	954.0
30°	971.6	952.7	922.3	912.9	917.0
32.5°	932.6	912.5	882.5	875.8	880.0
35°	891.7	869.7	841.6	837.0	842.2
37.5°	847.9	826.7	798.8	799.1	804.1
40°	804.4	782.5	756.8	759.6	765.5
42.5°	759.3	738.0	714.4	718.9	726.0
45°	712.3	691.9	671.0	677.6	684.3
47.5°	665.0	645.0	627.5	635.5	643.6
50°	618.2	598.7	583.3	593.4	600.9
52.5°	568.8	550.4	538.8	549.6	559.5
55°	521.2	502.4	492.9	506.1	516.6
57.5°	471.8	456.3	447.9	463.8	477.2
60°	421.9	406.5	402.1	422.6	435.5
62.5°	372.8	357.9	355.2	379.9	389.3
65°	324.6	309.8	309.8	333.1	343.3
67.5°	276.8	263.3	268.4	291.0	298.0
70°	228.1	216.1	225.9	245.3	249.0
72.5°	182.3	172.2	186.2	200.0	201.3
75°	137.9	131.6	146.3	155.9	156.4
77.5°	98.7	95.4	109.3	116.1	116.8
80°	64.1	65.5	76.5	82.0	84.2
82.5°	37.4	40.8	49.5	57.9	60.2
85°	18.0	22.0	29.5	36.0	38.6
87.5°	6.2	8.9	12.3	13.7	13.3
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	14.95	16.53	15.31	16.84	17.16	15.06	16.65	15.43	16.96	17.27
	3H	16.40	17.82	16.78	18.15	18.51	16.72	18.15	17.10	18.47	18.84
	4H	16.83	18.17	17.23	18.52	18.89	17.24	18.58	17.64	18.93	19.30
	6H	17.05	18.29	17.46	18.65	19.04	17.55	18.79	17.96	19.15	19.54
	8H	17.09	18.27	17.51	18.66	19.06	17.64	18.82	18.07	19.21	19.61
	12H	17.09	18.22	17.52	18.60	19.03	17.71	18.84	18.14	19.22	19.65
4H	2H	15.45	16.79	15.85	17.14	17.52	15.55	16.89	15.95	17.24	17.61
	3H	17.10	18.21	17.51	18.61	19.01	17.42	18.53	17.83	18.93	19.33
	4H	17.61	18.62	18.04	19.03	19.47	18.05	19.05	18.48	19.47	19.90
	6H	17.91	18.79	18.37	19.23	19.69	18.46	19.34	18.92	19.78	20.24
	8H	17.97	18.79	18.43	19.23	19.70	18.59	19.41	19.06	19.85	20.32
	12H	17.99	18.73	18.47	19.20	19.67	18.70	19.43	19.18	19.91	20.38
8H	4H	17.84	18.65	18.30	19.10	19.56	18.23	19.05	18.69	19.49	19.96
	6H	18.21	18.88	18.70	19.37	19.85	18.73	19.41	19.23	19.90	20.37
	8H	18.30	18.90	18.81	19.41	19.90	18.92	19.52	19.43	20.03	20.52
	12H	18.35	18.89	18.86	19.38	19.94	19.08	19.62	19.59	20.11	20.67
12H	4H	17.85	18.58	18.33	19.06	19.53	18.23	18.96	18.71	19.44	19.91
	6H	18.23	18.84	18.74	19.35	19.83	18.74	19.35	19.25	19.85	20.34
	8H	18.36	18.90	18.87	19.39	19.95	18.97	19.50	19.48	20.00	20.56