

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: P1498273

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498273
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-2-120-1STD-LO-35-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

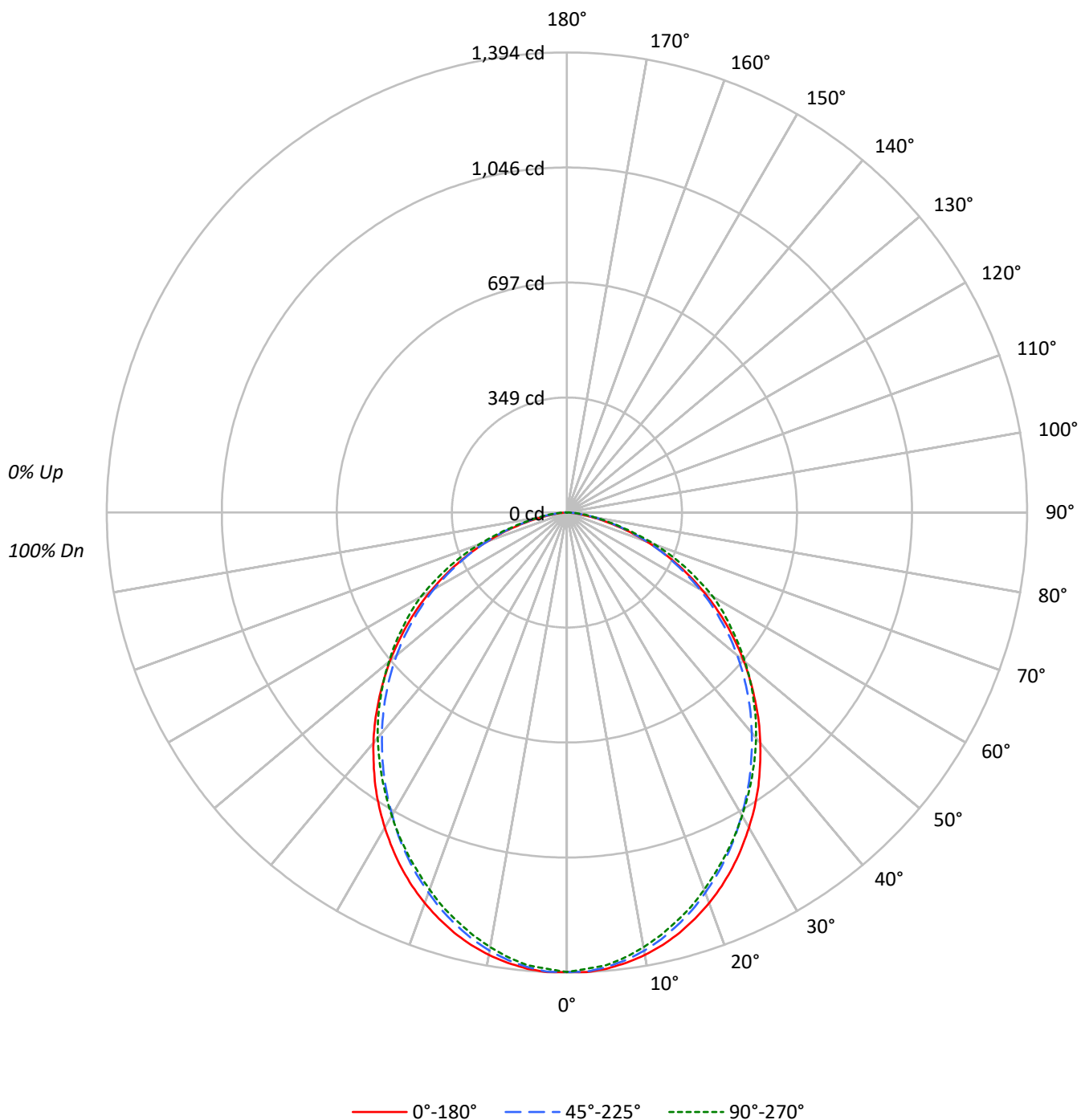
Lumens per Lamp: N/A
Luminaire Lumens: 3348.0 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	98	90	85	79	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61		
4	84	73	64	58	82	71	63	57	69	62	57	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°	3747	3747	3747
5°	3748	3734	3719
10°	3720	3684	3654
15°	3673	3606	3573
20°	3607	3511	3483
25°	3525	3407	3389
30°	3427	3289	3297
35°	3323	3179	3211
40°	3203	3061	3131
45°	3069	2945	3041
50°	2928	2819	2948
55°	2763	2671	2845
60°	2561	2501	2749
65°	2327	2274	2534
70°	2016	2031	2225
75°	1605	1705	1775
80°	1106	1283	1358
85°	618	957	1220

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3069 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.8	3.9
10°-20°	365.2	10.9
20°-30°	531.7	15.9
30°-40°	613.2	18.3
40°-50°	608.1	18.2
50°-60°	521.4	15.6
60°-70°	366.4	10.9
70°-80°	174.6	5.2
80°-90°	36.7	1.1
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°	1027.7	30.7
0°-40°	1640.9	49.0
0°-60°	2770.3	82.7
0°-90°	3348.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3348.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1392	1392	1392	1392	1392	
5°	1388	1386	1382	1374	1377	132
15°	1318	1312	1294	1280	1283	371
25°	1187	1172	1147	1137	1142	546
35°	1012	991	968	969	978	632
45°	806	789	774	788	799	622
55°	589	572	569	591	606	526
65°	365	353	357	386	398	362
75°	154	149	164	172	171	167
85°	20	24	31	37	40	28
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1392.4	1392.4	1392.4	1392.4	1392.4
2.5°	1394.1	1395.1	1392.4	1382.4	1383.9
5°	1387.5	1386.3	1382.5	1373.6	1376.6
7.5°	1376.3	1374.6	1367.8	1357.5	1359.5
10°	1361.5	1358.0	1348.2	1335.4	1337.3
12.5°	1342.3	1337.9	1324.1	1309.9	1312.1
15°	1318.4	1311.8	1294.5	1280.2	1282.6
17.5°	1290.7	1283.6	1262.9	1247.4	1252.1
20°	1259.4	1249.6	1226.0	1211.7	1216.1
22.5°	1225.1	1212.7	1188.2	1174.9	1178.8
25°	1187.2	1172.0	1147.4	1136.9	1141.5
27.5°	1146.3	1129.8	1104.9	1095.7	1102.2
30°	1102.8	1085.1	1058.6	1054.0	1061.0
32.5°	1058.2	1039.6	1013.7	1012.5	1019.6
35°	1011.5	990.9	967.6	968.8	977.5
37.5°	961.4	941.9	919.0	926.4	934.7
40°	911.8	891.6	871.5	881.8	891.4
42.5°	860.3	841.0	823.2	835.5	846.7
45°	806.5	788.6	773.8	788.4	799.2
47.5°	752.7	734.8	723.9	740.2	752.7
50°	699.3	682.3	673.4	692.1	704.2
52.5°	643.4	627.1	622.4	641.7	656.4
55°	589.0	572.4	569.4	591.3	606.4
57.5°	532.8	520.0	517.6	542.0	560.5
60°	475.8	462.9	464.7	493.8	510.8
62.5°	420.2	407.4	410.1	442.8	454.2
65°	365.4	352.6	357.2	385.5	398.0
67.5°	311.5	299.5	308.7	334.7	342.7
70°	256.2	245.7	258.2	279.5	282.8
72.5°	204.6	195.6	211.2	224.8	224.8
75°	154.4	149.0	164.0	171.9	170.7
77.5°	110.3	107.6	120.7	125.1	124.1
80°	71.4	73.0	82.8	85.8	87.6
82.5°	41.5	44.9	52.4	60.3	62.2
85°	20.0	24.0	31.0	37.2	39.5
87.5°	7.0	9.7	12.8	14.2	13.8
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	15.37	16.95	15.73	17.27	17.58	15.68	17.26	16.05	17.58	17.89
	3H	16.81	18.23	17.19	18.56	18.92	17.28	18.71	17.66	19.03	19.39
	4H	17.23	18.57	17.63	18.92	19.29	17.75	19.09	18.15	19.43	19.81
	6H	17.45	18.68	17.86	19.05	19.44	18.00	19.24	18.42	19.61	20.00
	8H	17.48	18.66	17.90	19.05	19.45	18.08	19.25	18.50	19.64	20.04
	12H	17.48	18.61	17.91	18.99	19.42	18.12	19.25	18.55	19.64	20.06
4H	2H	15.90	17.24	16.30	17.58	17.96	16.15	17.49	16.55	17.84	18.21
	3H	17.52	18.63	17.93	19.03	19.43	17.96	19.07	18.37	19.47	19.87
	4H	18.03	19.03	18.46	19.44	19.88	18.53	19.53	18.96	19.95	20.38
	6H	18.32	19.19	18.78	19.63	20.09	18.88	19.75	19.34	20.19	20.65
	8H	18.37	19.19	18.83	19.63	20.10	18.98	19.80	19.44	20.24	20.71
	12H	18.39	19.12	18.87	19.60	20.07	19.06	19.79	19.55	20.27	20.74
8H	4H	18.24	19.06	18.71	19.50	19.97	18.70	19.52	19.16	19.96	20.43
	6H	18.60	19.28	19.10	19.77	20.24	19.12	19.80	19.62	20.29	20.76
	8H	18.69	19.29	19.20	19.80	20.28	19.27	19.88	19.79	20.39	20.87
	12H	18.73	19.27	19.24	19.76	20.32	19.41	19.94	19.92	20.43	21.00
12H	4H	18.25	18.98	18.73	19.46	19.93	18.70	19.43	19.18	19.91	20.38
	6H	18.62	19.22	19.13	19.73	20.22	19.13	19.73	19.64	20.24	20.73
	8H	18.74	19.27	19.25	19.76	20.33	19.32	19.85	19.83	20.34	20.91