

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: P1498030

Luminaire Tested: MAE-G-2-120-1HI-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498030
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-2-120-1HI-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

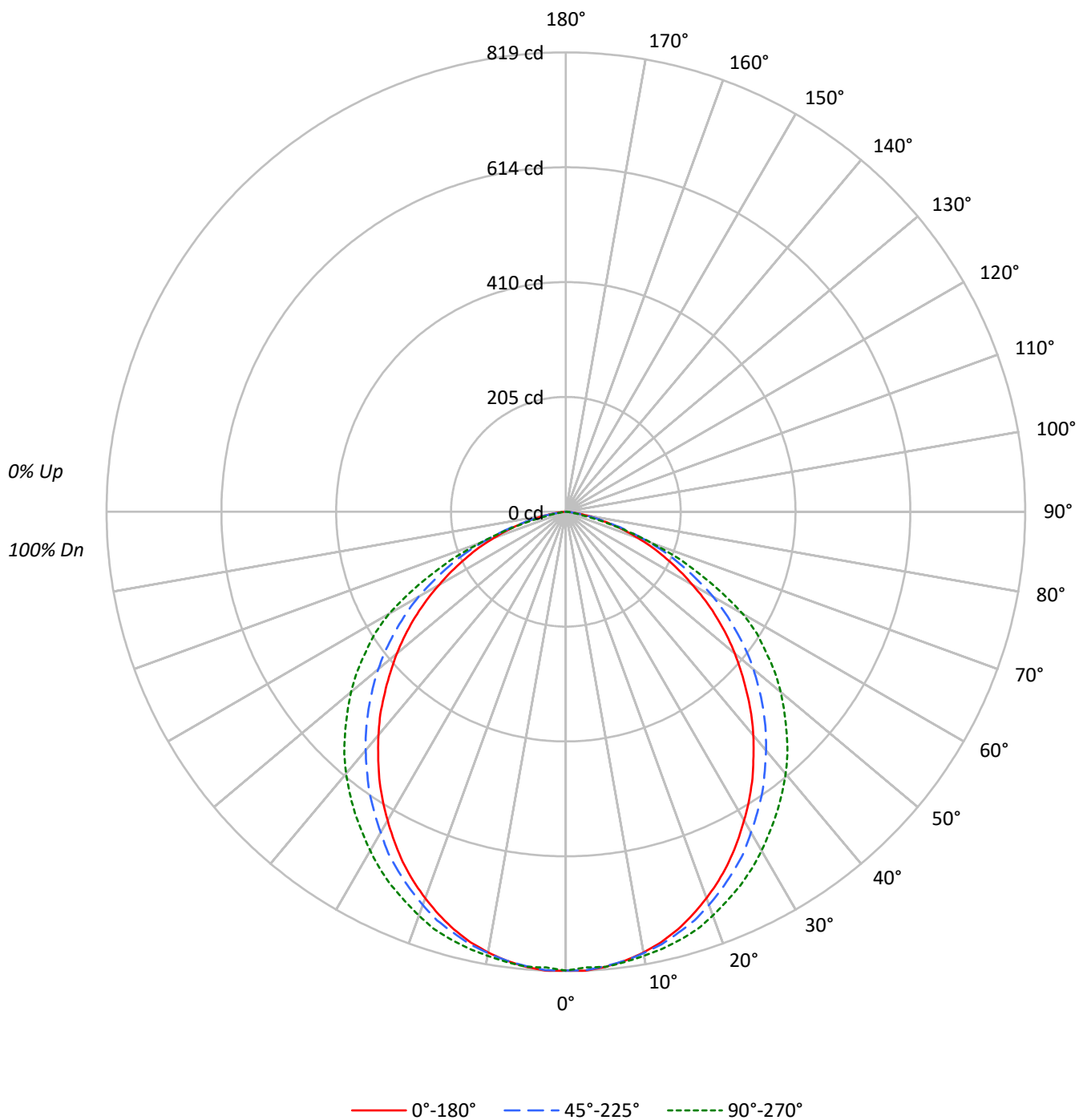
Lumens per Lamp: N/A
Luminaire Lumens: 2059.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 22.6
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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	74	68	90	80	73	67	77	71	66	75	70	65	72	68	64	62		
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53		
5	78	65	57	50	76	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	55	48	43	53	47	43	41		
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	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	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2201	2201	2201
5°	2200	2196	2200
10°	2180	2183	2196
15°	2147	2164	2200
20°	2099	2137	2194
25°	2044	2100	2184
30°	1975	2051	2168
35°	1906	2006	2153
40°	1827	1951	2141
45°	1738	1894	2118
50°	1645	1828	2094
55°	1540	1739	2043
60°	1406	1634	1963
65°	1259	1461	1686
70°	1074	1231	1287
75°	832	893	722
80°	547	474	256
85°	290	219	145

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2118 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	3.8
10°-20°	219.5	10.7
20°-30°	326.4	15.9
30°-40°	383.7	18.6
40°-50°	387.3	18.8
50°-60°	336.3	16.3
60°-70°	228.9	11.1
70°-80°	89.1	4.3
80°-90°	10.7	0.5
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°	623.1	30.3
0°-40°	1006.8	48.9
0°-60°	1730.3	84.0
0°-90°	2059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2059.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	818	818	818	818	818	
5°	814	813	813	813	814	77
15°	771	772	777	785	790	217
25°	688	692	707	725	736	317
35°	580	587	611	639	656	362
45°	457	468	498	537	557	352
55°	328	339	371	413	435	293
65°	198	207	230	254	265	196
75°	80	85	86	78	69	87
85°	9	9	7	6	5	14
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	817.9	817.9	817.9	817.9	817.9
2.5°	819.0	819.0	817.9	814.3	813.1
5°	814.3	813.1	813.1	813.1	814.3
7.5°	807.3	807.3	807.3	808.4	809.6
10°	797.8	797.8	799.0	801.4	803.7
12.5°	786.1	787.3	789.6	794.3	797.8
15°	770.8	772.0	776.7	784.9	789.6
17.5°	753.1	756.7	763.7	773.1	780.2
20°	733.1	736.7	746.1	757.8	766.1
22.5°	711.9	715.5	727.2	741.4	750.8
25°	688.4	691.9	707.2	724.9	735.5
27.5°	662.5	667.2	686.1	704.9	717.8
30°	635.5	641.3	660.2	683.7	697.8
32.5°	608.4	615.4	635.5	662.5	676.6
35°	580.1	587.2	610.7	639.0	655.5
37.5°	549.5	557.8	582.5	616.6	633.1
40°	520.1	528.4	555.4	591.9	609.6
42.5°	489.5	498.9	527.2	564.8	584.9
45°	456.6	468.4	497.8	536.6	556.6
47.5°	424.8	435.4	467.2	507.2	528.4
50°	393.0	404.8	436.6	477.8	500.1
52.5°	361.3	371.9	404.8	446.0	469.5
55°	328.3	338.9	370.7	413.0	435.4
57.5°	295.4	308.3	337.7	378.9	403.6
60°	261.2	273.0	303.6	344.8	364.8
62.5°	229.5	240.1	265.9	304.8	314.2
65°	197.7	207.1	229.5	254.2	264.8
67.5°	168.3	175.3	195.3	211.8	216.5
70°	136.5	143.6	156.5	165.9	163.6
72.5°	108.3	113.0	121.2	120.0	114.1
75°	80.0	84.7	85.9	77.7	69.4
77.5°	56.5	58.8	55.3	43.5	35.3
80°	35.3	36.5	30.6	18.8	16.5
82.5°	20.0	20.0	14.1	11.8	9.4
85°	9.4	9.4	7.1	5.9	4.7
87.5°	3.5	3.5	2.4	2.4	2.4
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	13.34	14.92	13.71	15.24	15.55	14.92	16.50	15.29	16.82	17.13
	3H	14.68	16.10	15.06	16.43	16.79	16.19	17.61	16.57	17.94	18.30
	4H	15.05	16.38	15.45	16.73	17.10	16.39	17.72	16.79	18.07	18.44
	6H	15.21	16.44	15.62	16.81	17.20	16.39	17.61	16.80	17.98	18.37
	8H	15.23	16.40	15.65	16.79	17.19	16.36	17.53	16.78	17.92	18.32
	12H	15.22	16.34	15.65	16.72	17.15	16.33	17.45	16.76	17.83	18.26
4H	2H	14.01	15.34	14.41	15.69	16.06	15.30	16.63	15.70	16.98	17.36
	3H	15.51	16.61	15.92	17.01	17.41	16.74	17.84	17.15	18.24	18.64
	4H	15.95	16.94	16.38	17.35	17.79	16.99	17.98	17.42	18.40	18.83
	6H	16.17	17.03	16.63	17.48	17.93	17.02	17.88	17.48	18.32	18.78
	8H	16.20	17.00	16.66	17.44	17.91	16.99	17.79	17.45	18.24	18.70
	12H	16.20	16.92	16.68	17.40	17.87	16.97	17.69	17.45	18.16	18.63
8H	4H	16.11	16.91	16.57	17.35	17.82	17.08	17.88	17.54	18.32	18.79
	6H	16.37	17.03	16.86	17.52	17.99	17.11	17.77	17.60	18.26	18.73
	8H	16.41	17.00	16.92	17.51	17.99	17.08	17.67	17.60	18.18	18.67
	12H	16.43	16.95	16.94	17.44	18.00	17.07	17.59	17.58	18.08	18.64
12H	4H	16.09	16.80	16.57	17.28	17.75	17.06	17.78	17.54	18.25	18.72
	6H	16.34	16.93	16.85	17.44	17.92	17.08	17.67	17.60	18.18	18.67
	8H	16.41	16.93	16.92	17.42	17.98	17.08	17.60	17.59	18.09	18.66