

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: P1498441

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2LO-HI-35-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

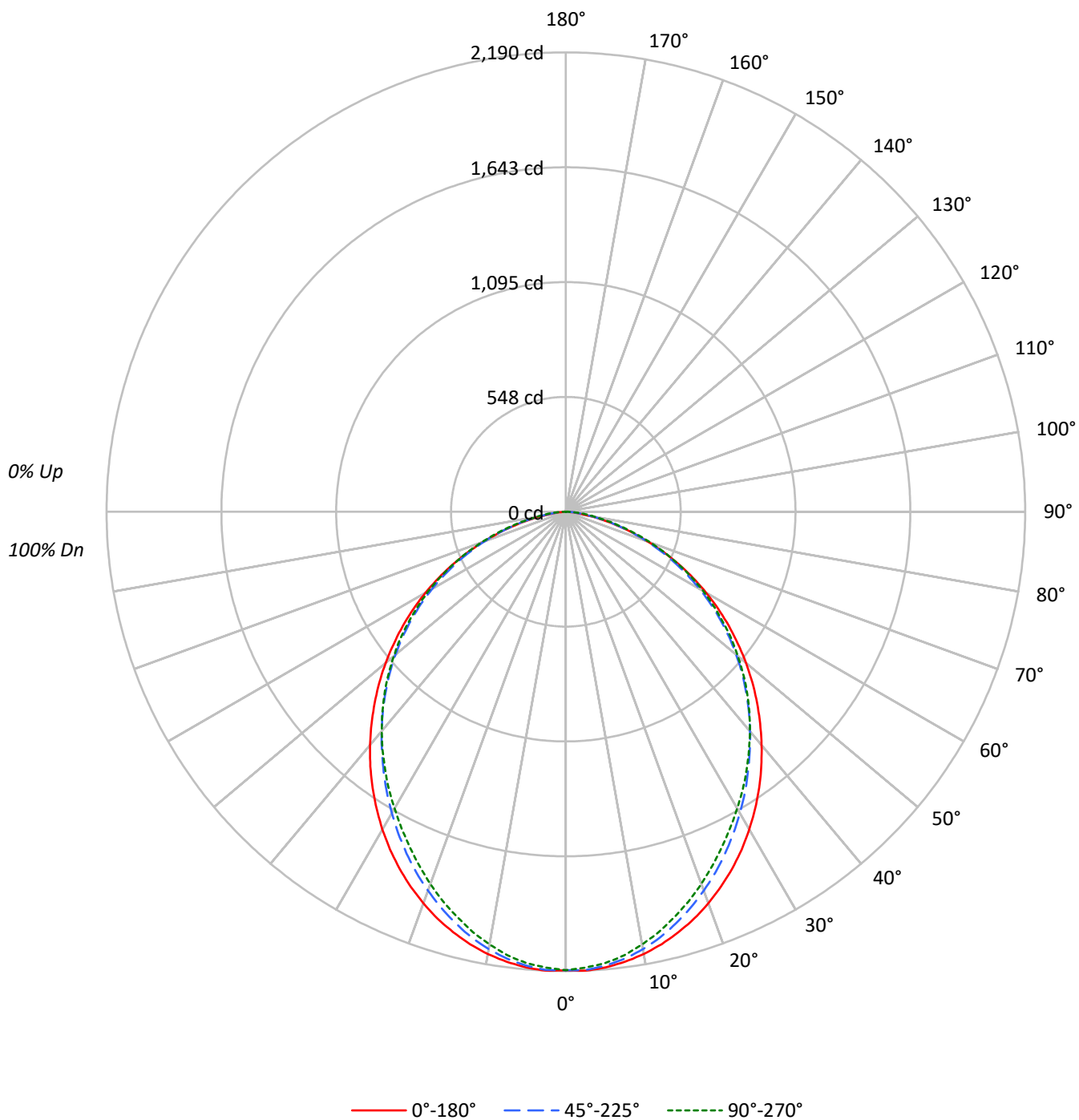
Lumens per Lamp: N/A
Luminaire Lumens: 5251.0 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 67
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	60	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	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32		
9	58	45	37	31	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	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5882	5882	5882
5°	5890	5868	5834
10°	5850	5786	5724
15°	5780	5659	5572
20°	5689	5504	5407
25°	5572	5336	5233
30°	5434	5156	5075
35°	5278	4974	4935
40°	5100	4800	4795
45°	4906	4625	4651
50°	4695	4438	4480
55°	4450	4223	4288
60°	4158	3963	4068
65°	3791	3636	3772
70°	3286	3234	3375
75°	2632	2724	2850
80°	1805	2049	2235
85°	954	1497	1988

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4906 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.3	3.9
10°-20°	572.2	10.9
20°-30°	831.8	15.8
30°-40°	959.2	18.3
40°-50°	952.2	18.1
50°-60°	816.9	15.6
60°-70°	575.4	11.0
70°-80°	279.3	5.3
80°-90°	58.7	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°	1609.3	30.6
0°-40°	2568.6	48.9
0°-60°	4337.7	82.6
0°-90°	5251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5251.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2186	2186	2186	2186	2186	
5°	2180	2174	2172	2156	2160	207
15°	2075	2059	2031	2000	2000	585
25°	1877	1847	1797	1763	1762	864
35°	1607	1567	1514	1498	1502	1004
45°	1289	1251	1215	1216	1222	994
55°	949	916	900	908	914	847
65°	595	574	571	585	592	589
75°	253	244	262	271	274	272
85°	31	37	48	60	64	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2185.8	2185.8	2185.8	2185.8	2185.8
2.5°	2189.7	2185.0	2185.8	2173.5	2174.7
5°	2180.5	2174.3	2172.2	2156.2	2159.8
7.5°	2163.9	2155.6	2148.9	2130.0	2132.8
10°	2141.0	2129.9	2117.5	2093.7	2094.7
12.5°	2111.4	2097.8	2078.4	2050.2	2051.4
15°	2074.9	2058.6	2031.2	2000.1	2000.1
17.5°	2034.2	2015.2	1979.1	1945.4	1947.4
20°	1986.6	1964.6	1921.9	1887.1	1888.3
22.5°	1933.7	1907.9	1862.4	1827.0	1825.8
25°	1876.6	1847.4	1797.2	1763.4	1762.4
27.5°	1815.1	1782.3	1729.5	1697.6	1698.0
30°	1748.9	1713.6	1659.4	1631.7	1633.2
32.5°	1679.2	1642.1	1588.2	1566.0	1569.9
35°	1606.8	1567.0	1514.0	1497.7	1502.1
37.5°	1531.0	1491.6	1440.7	1430.1	1434.5
40°	1451.7	1413.0	1366.4	1359.8	1365.1
42.5°	1371.1	1333.3	1291.6	1289.1	1294.8
45°	1289.2	1251.0	1215.2	1215.9	1222.1
47.5°	1206.8	1169.3	1139.0	1142.2	1147.8
50°	1121.5	1085.9	1060.2	1065.6	1070.1
52.5°	1033.8	1000.7	980.9	988.0	995.6
55°	948.6	916.3	900.2	908.5	913.9
57.5°	860.4	832.3	819.5	828.4	834.7
60°	772.6	746.0	736.4	748.0	755.9
62.5°	683.7	659.2	654.1	667.2	674.7
65°	595.4	573.9	571.1	585.0	592.4
67.5°	507.4	488.3	490.8	507.4	512.1
70°	417.7	402.0	411.0	425.4	429.0
72.5°	333.9	320.8	334.3	346.6	348.7
75°	253.1	244.4	262.0	270.9	274.1
77.5°	179.6	177.2	192.6	201.4	205.2
80°	116.5	120.0	132.2	142.1	144.2
82.5°	66.4	71.6	83.0	96.4	101.7
85°	30.9	36.6	48.5	59.6	64.4
87.5°	10.4	14.5	20.6	22.5	21.5
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	17.09	18.67	17.45	18.99	19.30	17.03	18.61	17.39	18.92	19.24
	3H	18.57	19.99	18.95	20.32	20.68	18.61	20.04	18.99	20.36	20.72
	4H	19.00	20.34	19.40	20.69	21.07	19.12	20.46	19.51	20.80	21.18
	6H	19.22	20.46	19.64	20.83	21.22	19.42	20.66	19.83	21.02	21.42
	8H	19.26	20.44	19.68	20.83	21.23	19.51	20.69	19.93	21.08	21.48
	12H	19.26	20.39	19.69	20.77	21.20	19.56	20.69	19.99	21.08	21.51
4H	2H	17.61	18.95	18.01	19.30	19.67	17.56	18.90	17.96	19.25	19.62
	3H	19.28	20.39	19.68	20.79	21.19	19.34	20.46	19.75	20.85	21.25
	4H	19.80	20.80	20.23	21.22	21.65	19.95	20.96	20.38	21.37	21.81
	6H	20.10	20.97	20.56	21.42	21.87	20.36	21.23	20.81	21.67	22.13
	8H	20.15	20.97	20.61	21.41	21.88	20.47	21.29	20.93	21.73	22.20
	12H	20.17	20.90	20.65	21.38	21.85	20.56	21.30	21.05	21.77	22.24
8H	4H	20.01	20.82	20.47	21.27	21.73	20.15	20.96	20.61	21.41	21.87
	6H	20.37	21.05	20.87	21.54	22.01	20.63	21.30	21.12	21.79	22.27
	8H	20.46	21.06	20.97	21.57	22.06	20.79	21.40	21.31	21.91	22.40
	12H	20.50	21.03	21.01	21.53	22.09	20.94	21.48	21.45	21.97	22.53
12H	4H	20.02	20.75	20.50	21.22	21.69	20.15	20.88	20.63	21.35	21.82
	6H	20.39	20.99	20.90	21.50	21.99	20.63	21.24	21.14	21.75	22.23
	8H	20.51	21.04	21.02	21.53	22.10	20.84	21.38	21.35	21.87	22.43