

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: P1498585

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498585
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-2-120-2STD-STD-35-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

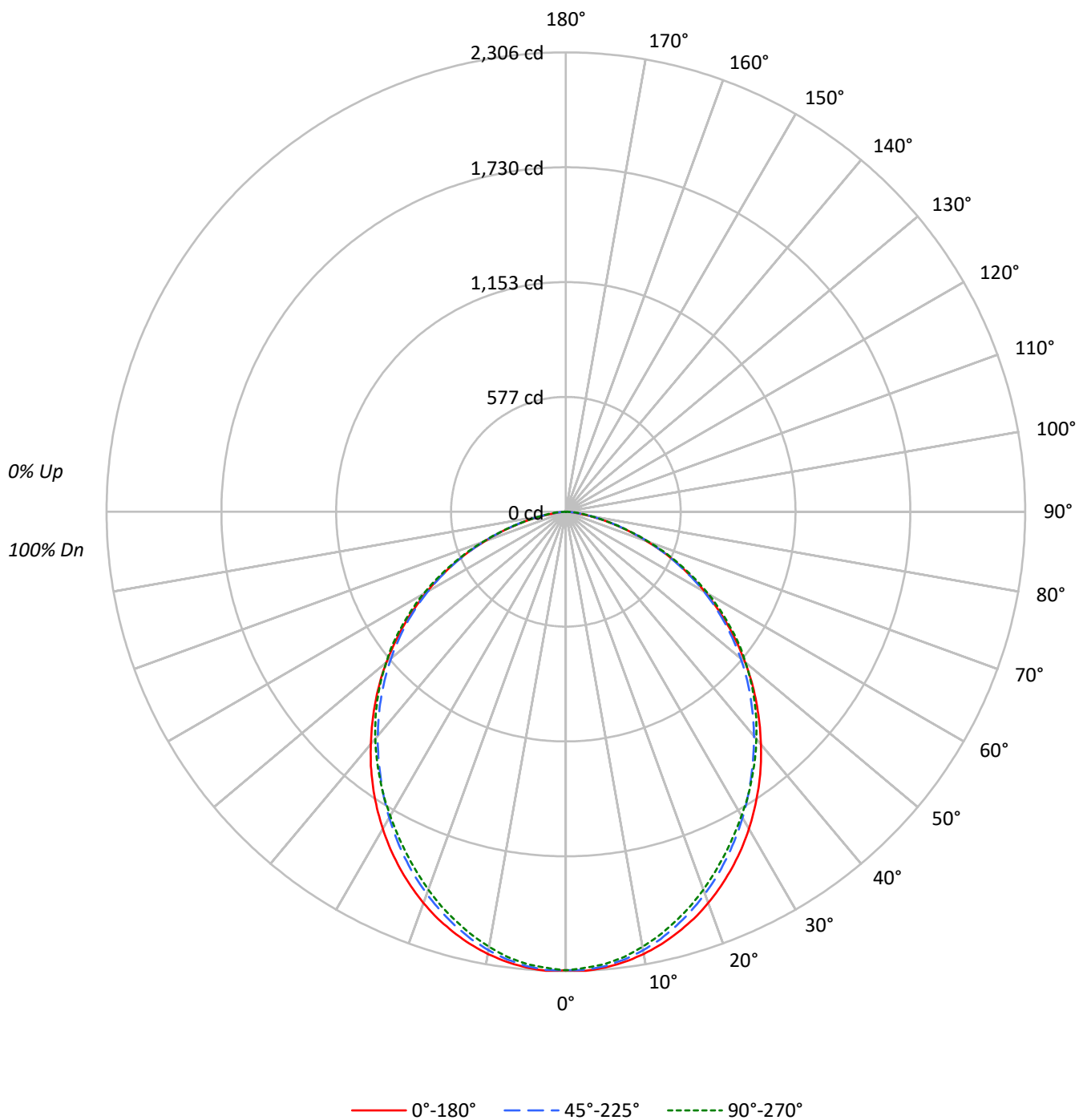
Lumens per Lamp: N/A
Luminaire Lumens: 5593.0 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 69.6
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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	81	98	90	85	80	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	67	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	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	54	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°	6194	6194	6194
5°	6203	6183	6154
10°	6160	6107	6059
15°	6084	5990	5928
20°	5986	5846	5781
25°	5860	5685	5621
30°	5711	5511	5478
35°	5544	5330	5353
40°	5352	5160	5227
45°	5146	4986	5095
50°	4920	4798	4929
55°	4661	4575	4724
60°	4349	4300	4458
65°	3956	3936	4052
70°	3418	3445	3507
75°	2725	2805	2796
80°	1849	1971	2001
85°	954	1337	1717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5146 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.4	3.9
10°-20°	605.7	10.8
20°-30°	885.0	15.8
30°-40°	1025.7	18.3
40°-50°	1023.1	18.3
50°-60°	880.8	15.7
60°-70°	615.5	11.0
70°-80°	286.2	5.1
80°-90°	54.6	1.0
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°	1707.2	30.5
0°-40°	2732.9	48.9
0°-60°	4636.8	82.9
0°-90°	5593.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5593.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2302	2302	2302	2302	2302	
5°	2296	2288	2289	2275	2278	218
15°	2184	2169	2150	2127	2128	616
25°	1974	1950	1915	1891	1893	908
35°	1688	1657	1623	1620	1630	1055
45°	1352	1325	1310	1326	1339	1043
55°	993	972	975	997	1007	887
65°	621	610	618	630	636	615
75°	262	258	270	269	269	282
85°	31	35	43	52	56	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2301.8	2301.8	2301.8	2301.8	2301.8
2.5°	2306.4	2299.2	2301.8	2291.4	2291.0
5°	2296.4	2288.3	2288.8	2275.1	2278.2
7.5°	2278.7	2269.2	2266.1	2250.4	2253.3
10°	2254.3	2242.4	2235.1	2215.9	2217.3
12.5°	2223.0	2209.4	2197.0	2174.7	2176.9
15°	2184.0	2168.6	2150.2	2126.6	2127.7
17.5°	2141.0	2124.1	2098.5	2073.3	2076.9
20°	2090.2	2071.4	2041.3	2015.2	2018.9
22.5°	2033.9	2012.6	1981.0	1954.9	1956.6
25°	1973.6	1949.9	1914.8	1890.9	1893.2
27.5°	1908.3	1881.9	1845.8	1824.3	1828.2
30°	1838.1	1810.3	1773.7	1757.0	1762.9
32.5°	1764.2	1735.5	1699.7	1690.0	1698.9
35°	1687.6	1657.1	1622.6	1619.6	1629.5
37.5°	1607.9	1577.7	1546.4	1549.8	1560.1
40°	1523.5	1495.1	1468.9	1476.7	1488.0
42.5°	1438.7	1411.2	1390.5	1402.9	1415.0
45°	1352.1	1324.7	1310.1	1325.8	1338.7
47.5°	1265.9	1238.4	1229.5	1247.9	1259.4
50°	1175.3	1150.6	1146.0	1166.3	1177.4
52.5°	1083.7	1060.8	1061.4	1083.2	1097.3
55°	993.4	971.9	975.2	997.2	1007.0
57.5°	900.5	883.1	888.5	908.4	918.2
60°	808.1	791.9	798.9	818.2	828.3
62.5°	714.6	700.3	709.2	725.9	732.7
65°	621.3	610.2	618.1	629.6	636.4
67.5°	529.3	519.0	528.4	539.9	542.7
70°	434.4	427.4	437.8	445.3	445.7
72.5°	346.9	340.3	350.9	354.7	353.5
75°	262.1	258.4	269.8	269.2	268.9
77.5°	185.0	185.9	192.8	192.6	192.8
80°	119.3	123.4	127.2	129.6	129.1
82.5°	67.2	71.2	76.0	85.5	89.2
85°	30.9	35.0	43.3	51.9	55.6
87.5°	10.4	13.6	18.2	19.6	18.6
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	17.26	18.85	17.63	19.16	19.47	17.45	19.03	17.82	19.35	19.66
	3H	18.73	20.15	19.11	20.48	20.84	18.93	20.36	19.31	20.68	21.04
	4H	19.16	20.49	19.56	20.84	21.22	19.36	20.70	19.76	21.04	21.42
	6H	19.37	20.60	19.78	20.97	21.36	19.58	20.82	19.99	21.18	21.57
	8H	19.39	20.57	19.82	20.96	21.36	19.63	20.81	20.05	21.20	21.60
	12H	19.39	20.52	19.82	20.90	21.33	19.66	20.79	20.09	21.17	21.60
4H	2H	17.82	19.15	18.22	19.50	19.88	17.97	19.31	18.37	19.65	20.03
	3H	19.46	20.57	19.87	20.97	21.37	19.64	20.75	20.05	21.15	21.55
	4H	19.97	20.98	20.41	21.39	21.83	20.16	21.16	20.59	21.57	22.01
	6H	20.26	21.13	20.72	21.57	22.03	20.46	21.33	20.92	21.77	22.23
	8H	20.31	21.12	20.77	21.56	22.03	20.53	21.35	21.00	21.79	22.26
	12H	20.32	21.05	20.80	21.52	21.99	20.59	21.32	21.07	21.80	22.27
8H	4H	20.16	20.98	20.63	21.42	21.89	20.33	21.15	20.79	21.59	22.06
	6H	20.51	21.18	21.00	21.67	22.15	20.69	21.37	21.19	21.86	22.33
	8H	20.58	21.18	21.09	21.69	22.18	20.81	21.41	21.32	21.92	22.40
	12H	20.62	21.15	21.13	21.64	22.20	20.90	21.44	21.41	21.93	22.49
12H	4H	20.17	20.89	20.65	21.37	21.84	20.33	21.06	20.81	21.54	22.01
	6H	20.51	21.11	21.02	21.62	22.11	20.69	21.30	21.20	21.80	22.29
	8H	20.62	21.15	21.13	21.64	22.20	20.84	21.37	21.35	21.86	22.43