

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: P1498537

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498537
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-HI-35-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

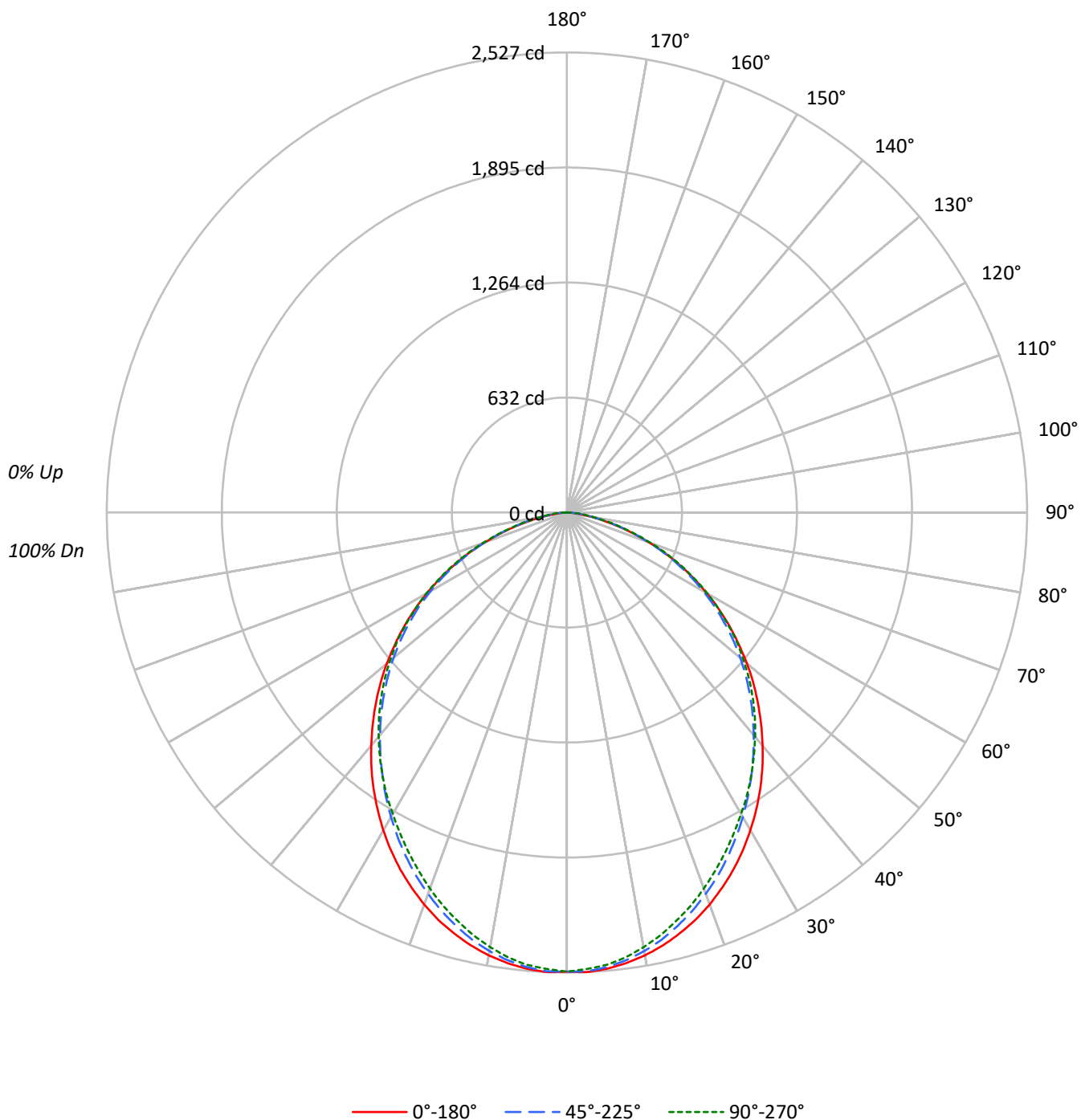
Lumens per Lamp: N/A
Luminaire Lumens: 6100.0 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 77.3
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	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	98	90	85	79	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	61
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6787	6787	6787
5°	6797	6773	6739
10°	6750	6686	6625
15°	6668	6550	6468
20°	6561	6383	6296
25°	6424	6200	6110
30°	6263	6002	5942
35°	6081	5799	5795
40°	5872	5607	5648
45°	5648	5411	5494
50°	5402	5201	5306
55°	5119	4956	5083
60°	4779	4654	4807
65°	4351	4265	4404
70°	3764	3757	3864
75°	3007	3103	3156
80°	2050	2244	2351
85°	1068	1572	2050

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5648 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.0	3.9
10°-20°	662.3	10.9
20°-30°	965.7	15.8
30°-40°	1116.9	18.3
40°-50°	1111.9	18.2
50°-60°	955.9	15.7
60°-70°	670.1	11.0
70°-80°	317.1	5.2
80°-90°	63.0	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°	1865.0	30.6
0°-40°	2981.9	48.9
0°-60°	5049.8	82.8
0°-90°	6100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6100.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2522	2522	2522	2522	2522	
5°	2516	2508	2507	2491	2495	239
15°	2394	2376	2351	2321	2322	675
25°	2164	2135	2088	2057	2058	996
35°	1851	1813	1765	1756	1764	1157
45°	1484	1448	1422	1432	1444	1145
55°	1091	1062	1056	1074	1083	974
65°	683	666	670	684	692	676
75°	289	283	298	302	304	311
85°	35	40	51	62	66	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2522.2	2522.2	2522.2	2522.2	2522.2
2.5°	2527.0	2520.1	2522.2	2509.6	2509.9
5°	2516.2	2508.0	2507.3	2490.9	2494.6
7.5°	2496.9	2486.8	2481.6	2462.6	2465.7
10°	2470.2	2457.3	2446.7	2423.0	2424.4
12.5°	2436.0	2420.8	2403.6	2375.8	2377.8
15°	2393.5	2375.9	2351.0	2321.0	2321.8
17.5°	2346.5	2326.6	2292.9	2260.7	2264.0
20°	2291.1	2268.6	2228.9	2195.6	2198.5
22.5°	2229.7	2203.7	2161.8	2128.1	2128.7
25°	2163.7	2134.6	2088.1	2056.7	2057.7
27.5°	2092.4	2059.8	2011.5	1982.5	1985.2
30°	2015.7	1981.0	1931.7	1907.8	1912.3
32.5°	1934.9	1898.9	1850.2	1833.4	1841.1
35°	1851.2	1812.6	1765.3	1755.6	1764.1
37.5°	1763.8	1725.6	1681.3	1678.5	1687.3
40°	1671.7	1635.0	1596.1	1598.0	1607.8
42.5°	1578.7	1543.1	1510.0	1516.8	1527.4
45°	1484.0	1448.2	1421.9	1432.4	1443.6
47.5°	1389.3	1353.8	1333.7	1347.1	1357.2
50°	1290.4	1257.5	1242.4	1258.1	1267.4
52.5°	1189.7	1159.2	1150.2	1167.7	1180.4
55°	1091.0	1061.8	1056.3	1074.5	1083.4
57.5°	989.2	964.7	962.1	979.2	988.5
60°	887.9	864.9	864.8	882.9	893.1
62.5°	785.4	764.6	767.9	784.9	792.9
65°	683.3	666.0	669.8	683.8	691.7
67.5°	582.2	566.5	573.8	589.1	593.1
70°	478.4	466.5	477.5	489.1	491.1
72.5°	382.2	371.8	385.0	393.2	393.5
75°	289.2	282.7	298.4	302.2	303.5
77.5°	204.6	204.0	215.7	219.8	221.7
80°	132.3	136.6	144.8	151.0	151.7
82.5°	74.8	79.9	88.4	100.9	105.8
85°	34.6	39.9	50.9	61.8	66.4
87.5°	11.7	15.6	21.5	23.3	22.2
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	17.58	19.17	17.95	19.48	19.79	17.67	19.25	18.03	19.57	19.88
	3H	19.05	20.48	19.43	20.81	21.17	19.19	20.62	19.57	20.94	21.30
	4H	19.49	20.82	19.88	21.17	21.55	19.65	20.99	20.05	21.34	21.71
	6H	19.70	20.94	20.11	21.30	21.69	19.90	21.14	20.31	21.51	21.90
	8H	19.73	20.91	20.15	21.30	21.70	19.97	21.15	20.39	21.54	21.94
	12H	19.73	20.86	20.16	21.24	21.67	20.01	21.14	20.44	21.52	21.95
4H	2H	18.12	19.46	18.52	19.81	20.19	18.19	19.53	18.59	19.88	20.26
	3H	19.78	20.89	20.19	21.29	21.69	19.91	21.02	20.32	21.42	21.82
	4H	20.29	21.30	20.72	21.71	22.15	20.46	21.47	20.90	21.88	22.32
	6H	20.59	21.46	21.04	21.90	22.36	20.81	21.68	21.26	22.12	22.58
	8H	20.63	21.45	21.10	21.89	22.36	20.90	21.71	21.36	22.16	22.62
	12H	20.65	21.38	21.13	21.86	22.33	20.97	21.70	21.45	22.17	22.64
8H	4H	20.49	21.31	20.95	21.75	22.22	20.65	21.46	21.11	21.90	22.37
	6H	20.84	21.52	21.34	22.01	22.48	21.06	21.73	21.55	22.22	22.70
	8H	20.92	21.52	21.43	22.03	22.52	21.19	21.79	21.70	22.30	22.79
	12H	20.96	21.49	21.47	21.98	22.55	21.31	21.84	21.82	22.33	22.89
12H	4H	20.49	21.22	20.98	21.70	22.17	20.65	21.37	21.13	21.85	22.32
	6H	20.85	21.46	21.36	21.96	22.45	21.06	21.66	21.57	22.17	22.66
	8H	20.96	21.50	21.47	21.99	22.55	21.23	21.76	21.74	22.25	22.82