

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: P1498246

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498246
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-HI-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

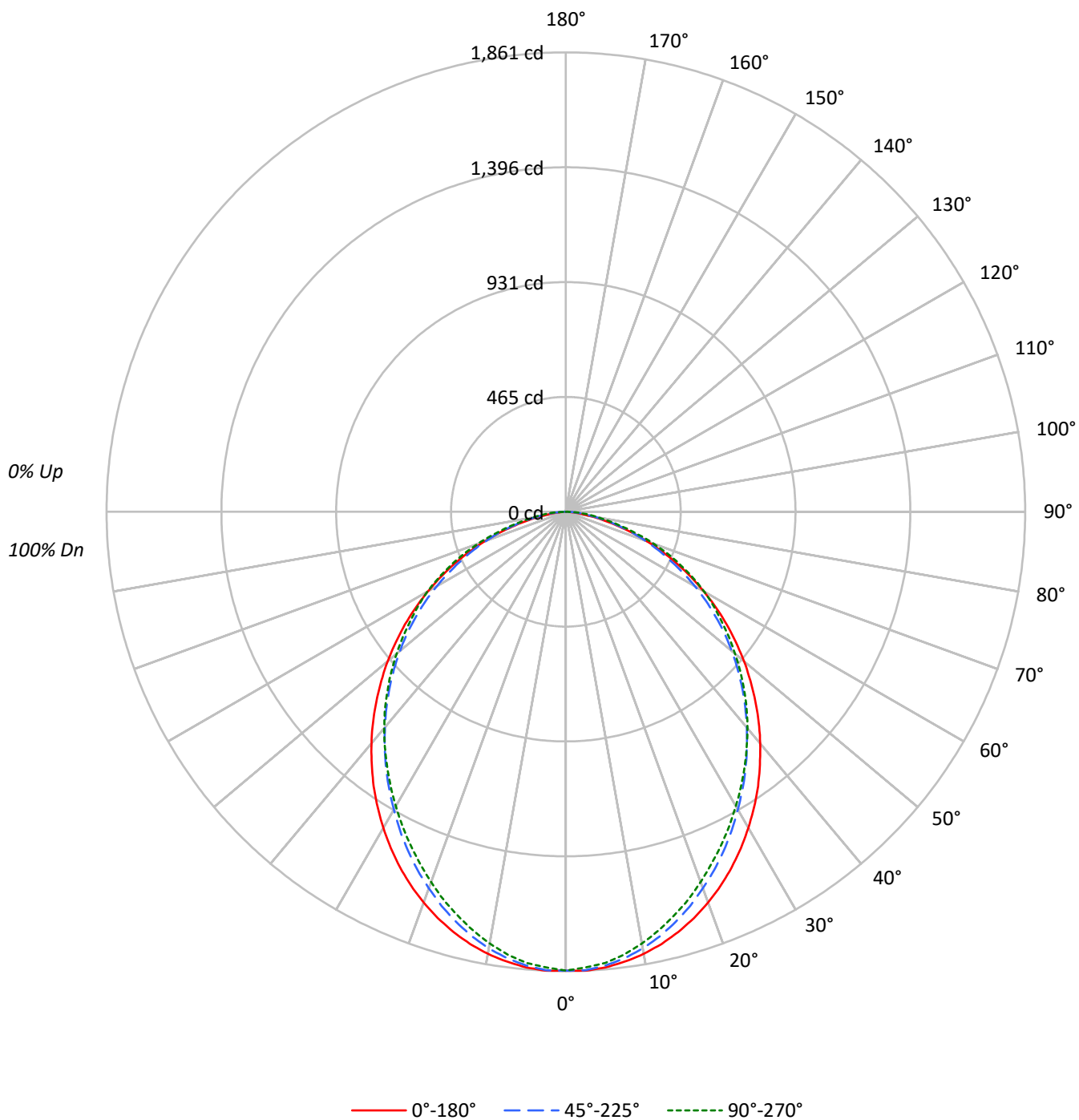
Lumens per Lamp: N/A
Luminaire Lumens: 4421.0 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 59.9
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	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	74	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	63	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	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	39	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	34	34	32
9	58	45	37	32	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	29	39	33	28	38	32	28	28	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5002	5002	5002
5°	5004	4984	4956
10°	4969	4908	4852
15°	4908	4790	4717
20°	4824	4648	4571
25°	4719	4496	4423
30°	4595	4329	4280
35°	4460	4170	4147
40°	4305	4007	4022
45°	4132	3845	3886
50°	3947	3674	3746
55°	3732	3477	3604
60°	3470	3252	3488
65°	3163	2971	3279
70°	2749	2692	2980
75°	2201	2333	2537
80°	1531	1860	2097
85°	858	1457	1930

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4132 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.4	3.9
10°-20°	484.9	11.0
20°-30°	702.4	15.9
30°-40°	806.2	18.2
40°-50°	796.0	18.0
50°-60°	680.3	15.4
60°-70°	482.0	10.9
70°-80°	240.1	5.4
80°-90°	54.6	1.2
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°	1361.7	30.8
0°-40°	2168.0	49.0
0°-60°	3644.3	82.4
0°-90°	4421.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4421.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1859	1859	1859	1859	1859	
5°	1853	1851	1845	1830	1835	176
15°	1762	1750	1720	1692	1693	496
25°	1590	1563	1514	1488	1490	732
35°	1358	1320	1270	1257	1262	848
45°	1086	1050	1010	1014	1021	837
55°	796	763	741	755	768	710
65°	497	471	467	500	515	491
75°	212	200	224	242	244	228
85°	28	34	47	58	62	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1858.8	1858.8	1858.8	1858.8	1858.8
2.5°	1860.9	1862.6	1858.8	1844.2	1847.2
5°	1852.6	1851.2	1845.0	1830.4	1834.6
7.5°	1838.0	1835.1	1824.0	1806.4	1809.1
10°	1818.5	1812.8	1796.0	1773.8	1775.7
12.5°	1793.2	1785.3	1761.4	1735.6	1737.4
15°	1761.8	1750.5	1719.5	1691.7	1693.2
17.5°	1725.6	1712.1	1674.4	1644.0	1648.0
20°	1684.7	1666.8	1623.0	1593.5	1596.3
22.5°	1639.4	1617.2	1570.8	1541.5	1543.0
25°	1589.5	1562.8	1514.3	1487.8	1489.7
27.5°	1535.9	1506.3	1455.6	1430.6	1434.5
30°	1478.7	1446.5	1393.1	1373.1	1377.3
32.5°	1419.6	1385.3	1332.2	1316.1	1320.4
35°	1357.6	1320.1	1269.5	1256.6	1262.4
37.5°	1291.3	1254.9	1204.5	1198.8	1203.8
40°	1225.4	1187.8	1140.6	1138.4	1145.0
42.5°	1156.7	1120.2	1076.1	1076.6	1084.5
45°	1085.7	1050.0	1010.3	1013.9	1021.2
47.5°	1013.9	978.9	944.5	950.2	959.6
50°	942.8	908.7	877.5	886.5	894.7
52.5°	867.7	835.4	810.4	820.5	832.3
55°	795.5	762.7	741.1	754.9	768.1
57.5°	720.5	692.6	673.3	691.9	709.2
60°	644.7	617.3	604.2	630.6	648.0
62.5°	570.1	543.4	534.4	567.7	581.6
65°	496.7	470.8	466.6	500.2	515.0
67.5°	423.5	400.1	404.7	438.8	449.4
70°	349.4	328.4	342.2	372.3	378.8
72.5°	279.4	262.1	283.3	306.4	309.4
75°	211.7	200.4	224.4	241.7	244.0
77.5°	151.7	145.9	169.2	182.6	185.4
80°	98.8	100.8	120.0	131.1	135.3
82.5°	57.7	63.3	78.6	92.9	97.2
85°	27.8	34.5	47.2	58.0	62.5
87.5°	9.6	14.0	19.8	22.0	21.4
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	16.41	18.00	16.78	18.31	18.63	16.40	17.98	16.76	18.30	18.61
	3H	17.88	19.30	18.25	19.63	19.99	18.10	19.53	18.48	19.85	20.21
	4H	18.31	19.65	18.71	20.00	20.38	18.65	19.99	19.05	20.34	20.72
	6H	18.54	19.78	18.95	20.14	20.53	19.00	20.24	19.41	20.61	21.00
	8H	18.58	19.76	19.00	20.15	20.55	19.11	20.29	19.54	20.68	21.08
	12H	18.58	19.71	19.01	20.10	20.52	19.19	20.32	19.62	20.70	21.13
4H	2H	16.91	18.25	17.31	18.60	18.98	16.90	18.24	17.30	18.59	18.96
	3H	18.56	19.68	18.97	20.08	20.48	18.81	19.92	19.22	20.32	20.72
	4H	19.09	20.09	19.52	20.51	20.94	19.48	20.49	19.91	20.90	21.34
	6H	19.40	20.27	19.85	20.71	21.17	19.94	20.82	20.40	21.26	21.72
	8H	19.45	20.27	19.92	20.72	21.18	20.09	20.91	20.55	21.35	21.82
	12H	19.48	20.21	19.96	20.69	21.16	20.21	20.94	20.69	21.42	21.89
8H	4H	19.32	20.14	19.78	20.58	21.05	19.67	20.49	20.14	20.94	21.40
	6H	19.70	20.38	20.19	20.87	21.34	20.23	20.90	20.72	21.39	21.87
	8H	19.79	20.40	20.30	20.91	21.39	20.44	21.04	20.95	21.55	22.04
	12H	19.85	20.39	20.36	20.88	21.44	20.62	21.16	21.13	21.65	22.21
12H	4H	19.34	20.07	19.82	20.55	21.02	19.67	20.41	20.16	20.88	21.36
	6H	19.73	20.34	20.24	20.84	21.33	20.24	20.84	20.75	21.35	21.84
	8H	19.86	20.40	20.37	20.89	21.45	20.49	21.03	21.00	21.52	22.08