

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: P1498564

Luminaire Tested: MAE-G-2-120-2STD-LO-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498564
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-LO-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

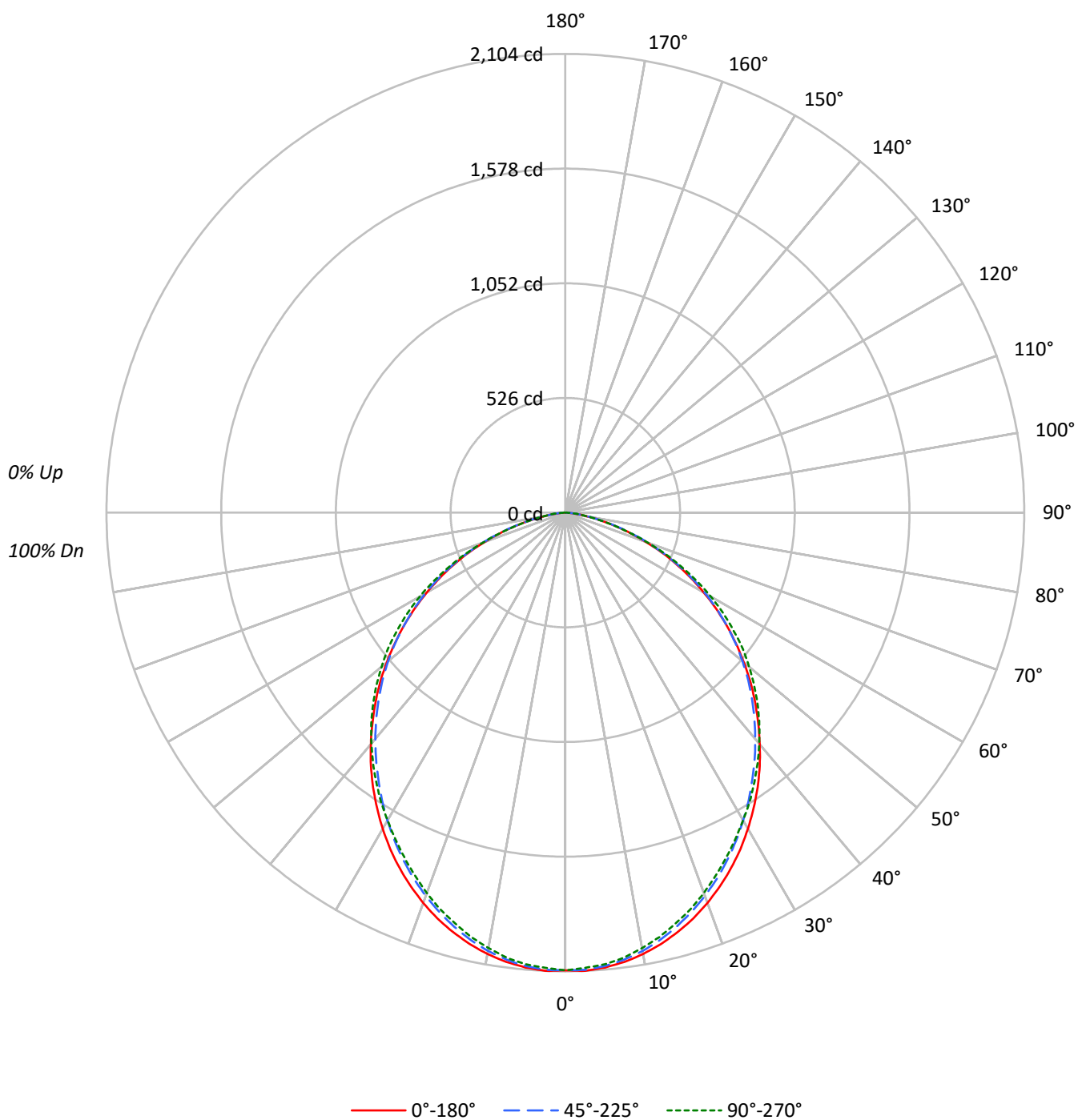
Lumens per Lamp: N/A
Luminaire Lumens: 5133.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 59.3
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	88	86
2	100	92	86	81	98	91	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	62
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°	5649	5649	5649
5°	5657	5640	5617
10°	5617	5577	5541
15°	5547	5478	5436
20°	5456	5357	5317
25°	5340	5218	5183
30°	5203	5067	5064
35°	5049	4909	4962
40°	4872	4760	4858
45°	4682	4606	4747
50°	4475	4439	4603
55°	4237	4238	4416
60°	3951	3986	4154
65°	3589	3643	3736
70°	3095	3162	3174
75°	2461	2528	2443
80°	1660	1703	1647
85°	843	1093	1368

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4747 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.5	3.8
10°-20°	554.0	10.8
20°-30°	811.7	15.8
30°-40°	943.3	18.4
40°-50°	943.5	18.4
50°-60°	813.8	15.9
60°-70°	566.2	11.0
70°-80°	257.0	5.0
80°-90°	46.0	0.9
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°	1563.3	30.5
0°-40°	2506.6	48.8
0°-60°	4263.9	83.1
0°-90°	5133.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5133.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2099	2099	2099	2099	2099	
5°	2094	2086	2088	2077	2080	199
15°	1991	1978	1966	1950	1951	561
25°	1799	1781	1758	1742	1746	828
35°	1537	1515	1494	1499	1510	960
45°	1230	1212	1210	1232	1247	949
55°	903	890	903	930	941	807
65°	564	559	572	581	587	558
75°	237	236	243	237	235	255
85°	27	30	35	42	44	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2099.1	2099.1	2099.1	2099.1	2099.1
2.5°	2103.6	2095.9	2099.1	2090.9	2089.7
5°	2094.2	2086.1	2087.9	2077.0	2079.5
7.5°	2078.1	2069.0	2068.1	2056.1	2058.6
10°	2055.7	2044.8	2041.1	2026.5	2027.9
12.5°	2026.9	2015.0	2007.7	1991.2	1993.7
15°	1991.2	1978.0	1966.5	1949.7	1951.4
17.5°	1951.9	1938.1	1921.1	1903.4	1907.5
20°	1905.2	1890.4	1870.5	1852.1	1856.6
22.5°	1853.6	1837.1	1816.7	1798.6	1801.8
25°	1798.6	1780.7	1757.5	1741.8	1745.5
27.5°	1738.7	1718.8	1695.9	1682.3	1687.9
30°	1674.4	1653.8	1630.8	1622.2	1629.6
32.5°	1606.7	1585.9	1564.0	1562.1	1572.7
35°	1536.8	1514.6	1494.2	1498.7	1510.4
37.5°	1464.0	1442.4	1425.2	1435.8	1448.1
40°	1386.9	1367.1	1355.0	1369.6	1382.8
42.5°	1309.4	1290.6	1283.5	1302.6	1316.8
45°	1230.2	1211.8	1210.4	1232.3	1247.4
47.5°	1151.9	1133.0	1136.6	1161.1	1174.5
50°	1069.0	1052.9	1060.3	1086.0	1099.6
52.5°	985.8	971.0	982.5	1009.8	1025.7
55°	903.1	889.9	903.3	930.0	941.2
57.5°	818.5	808.8	823.5	846.8	857.5
60°	734.2	725.4	740.6	761.9	771.8
62.5°	648.9	641.8	657.3	674.0	679.6
65°	563.7	559.4	572.2	581.1	586.8
67.5°	480.1	475.8	487.8	495.2	496.6
70°	393.4	391.9	401.9	404.8	403.4
72.5°	314.0	311.7	319.5	318.3	315.3
75°	236.7	236.2	243.1	237.3	235.0
77.5°	166.7	169.2	170.7	165.6	163.8
80°	107.1	111.1	109.9	108.0	106.3
82.5°	59.8	62.8	63.4	69.7	72.2
85°	27.3	30.1	35.4	41.8	44.3
87.5°	9.2	11.5	14.8	15.8	14.9
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	16.94	18.52	17.31	18.84	19.15	17.26	18.85	17.63	19.16	19.47
	3H	18.40	19.82	18.78	20.15	20.51	18.69	20.11	19.07	20.44	20.80
	4H	18.82	20.16	19.22	20.51	20.88	19.08	20.41	19.48	20.76	21.14
	6H	19.02	20.26	19.44	20.63	21.02	19.25	20.49	19.66	20.85	21.25
	8H	19.05	20.23	19.48	20.62	21.02	19.29	20.46	19.71	20.85	21.25
	12H	19.05	20.17	19.48	20.56	20.99	19.30	20.43	19.73	20.81	21.24
4H	2H	17.51	18.85	17.91	19.20	19.57	17.77	19.11	18.17	19.46	19.84
	3H	19.15	20.26	19.56	20.66	21.06	19.38	20.49	19.79	20.89	21.29
	4H	19.65	20.65	20.08	21.07	21.50	19.86	20.86	20.29	21.27	21.71
	6H	19.93	20.80	20.39	21.24	21.70	20.11	20.98	20.56	21.42	21.88
	8H	19.97	20.78	20.43	21.23	21.69	20.16	20.97	20.62	21.41	21.88
	12H	19.98	20.71	20.46	21.19	21.66	20.20	20.92	20.68	21.40	21.87
8H	4H	19.83	20.65	20.30	21.09	21.55	20.02	20.83	20.48	21.28	21.74
	6H	20.17	20.84	20.66	21.33	21.80	20.32	20.99	20.82	21.48	21.96
	8H	20.23	20.83	20.74	21.34	21.83	20.40	21.00	20.92	21.51	22.00
	12H	20.26	20.79	20.77	21.29	21.85	20.48	21.01	20.98	21.50	22.06
12H	4H	19.83	20.56	20.31	21.03	21.50	20.02	20.74	20.50	21.22	21.69
	6H	20.16	20.76	20.67	21.27	21.76	20.32	20.92	20.83	21.42	21.91
	8H	20.26	20.79	20.77	21.28	21.84	20.43	20.96	20.94	21.45	22.02