

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: P1498303

Luminaire Tested: MAE-G-2-120-1STD-STD-40-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498303
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-STD-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

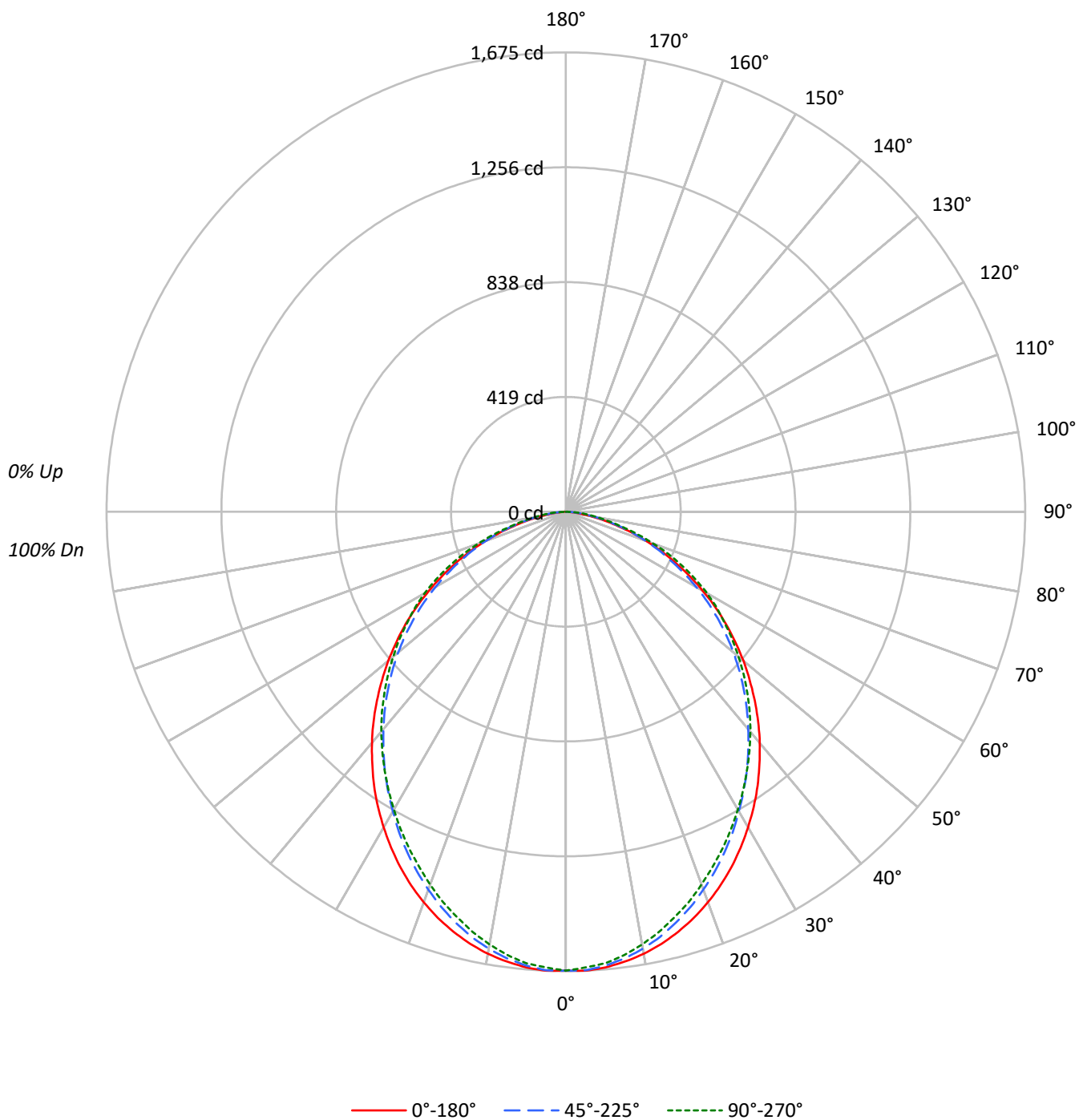
Lumens per Lamp: N/A
Luminaire Lumens: 3997.0 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 52.2
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	109	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	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	39	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	32	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	29	39	33	28	38	32	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4503	4503	4503
5°	4504	4487	4464
10°	4472	4421	4377
15°	4416	4321	4265
20°	4339	4198	4143
25°	4243	4066	4018
30°	4129	3919	3896
35°	4005	3780	3783
40°	3864	3635	3678
45°	3707	3492	3561
50°	3539	3339	3440
55°	3344	3162	3314
60°	3104	2958	3205
65°	2826	2698	2989
70°	2453	2431	2679
75°	1960	2079	2223
80°	1358	1621	1784
85°	760	1247	1630

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3707 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.0	3.9
10°-20°	437.5	10.9
20°-30°	635.0	15.9
30°-40°	730.2	18.3
40°-50°	722.2	18.1
50°-60°	618.1	15.5
60°-70°	436.5	10.9
70°-80°	213.6	5.3
80°-90°	47.1	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°	1229.4	30.8
0°-40°	1959.6	49.0
0°-60°	3299.9	82.6
0°-90°	3997.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3997.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1673	1673	1673	1673	1673	
5°	1668	1666	1661	1649	1653	158
15°	1585	1576	1551	1529	1531	447
25°	1429	1407	1369	1350	1353	658
35°	1219	1189	1151	1144	1152	762
45°	974	946	918	927	936	751
55°	713	687	674	692	706	636
65°	444	424	424	456	470	439
75°	188	180	200	213	214	203
85°	25	30	40	49	53	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1673.2	1673.2	1673.2	1673.2	1673.2
2.5°	1675.1	1676.5	1673.2	1660.5	1662.8
5°	1667.5	1666.1	1660.9	1648.8	1652.6
7.5°	1654.2	1651.8	1642.5	1628.1	1630.6
10°	1636.6	1631.9	1617.9	1599.9	1601.9
12.5°	1613.7	1607.2	1587.7	1567.0	1569.1
15°	1585.1	1575.9	1550.9	1529.0	1530.9
17.5°	1552.3	1541.7	1511.4	1487.5	1492.0
20°	1515.2	1500.8	1465.9	1443.1	1446.7
22.5°	1474.3	1456.3	1419.5	1397.2	1400.0
25°	1429.1	1407.3	1369.3	1350.0	1353.2
27.5°	1380.5	1356.5	1317.3	1299.4	1304.6
30°	1328.7	1302.8	1261.2	1248.2	1253.9
32.5°	1275.3	1247.8	1206.8	1197.6	1203.3
35°	1219.3	1189.3	1150.8	1144.4	1151.6
37.5°	1159.4	1130.4	1092.3	1092.8	1099.5
40°	1100.1	1070.0	1034.9	1038.7	1046.9
42.5°	1038.2	1009.2	976.9	983.1	992.8
45°	974.0	946.2	917.6	926.6	935.7
47.5°	909.3	881.8	858.1	869.1	880.1
50°	845.3	818.8	797.6	811.5	821.7
52.5°	777.8	752.6	736.9	751.6	765.2
55°	712.7	687.0	674.0	691.9	706.4
57.5°	645.3	624.0	612.5	634.2	652.6
60°	576.8	555.9	549.7	577.9	595.6
62.5°	509.8	489.3	485.8	519.4	532.5
65°	443.9	423.7	423.7	455.5	469.5
67.5°	378.5	360.1	366.9	397.9	407.4
70°	311.8	295.4	309.0	335.4	340.5
72.5°	249.3	235.5	254.5	273.6	275.1
75°	188.5	179.9	200.0	213.2	213.8
77.5°	135.0	130.5	149.3	158.6	159.7
80°	87.6	89.6	104.6	112.1	115.1
82.5°	51.2	55.8	67.7	79.1	82.3
85°	24.6	30.1	40.4	49.1	52.8
87.5°	8.5	12.2	16.9	18.8	18.3
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	16.03	17.62	16.40	17.93	18.24	16.15	17.73	16.51	18.05	18.36
	3H	17.49	18.91	17.86	19.24	19.60	17.81	19.23	18.19	19.56	19.92
	4H	17.92	19.25	18.31	19.60	19.98	18.33	19.66	18.72	20.01	20.39
	6H	18.14	19.38	18.55	19.74	20.13	18.64	19.87	19.05	20.24	20.63
	8H	18.17	19.35	18.60	19.74	20.14	18.73	19.91	19.15	20.30	20.70
	12H	18.18	19.31	18.61	19.69	20.12	18.80	19.93	19.23	20.31	20.74
4H	2H	16.54	17.88	16.94	18.23	18.61	16.64	17.98	17.04	18.33	18.70
	3H	18.18	19.30	18.59	19.70	20.10	18.50	19.62	18.91	20.02	20.42
	4H	18.70	19.70	19.13	20.12	20.55	19.13	20.14	19.57	20.55	20.99
	6H	19.00	19.88	19.46	20.32	20.78	19.55	20.42	20.01	20.87	21.32
	8H	19.06	19.87	19.52	20.32	20.78	19.68	20.50	20.14	20.94	21.41
	12H	19.08	19.81	19.56	20.29	20.76	19.78	20.52	20.26	20.99	21.46
8H	4H	18.92	19.74	19.39	20.19	20.65	19.32	20.14	19.78	20.58	21.05
	6H	19.30	19.97	19.79	20.46	20.94	19.82	20.49	20.31	20.98	21.46
	8H	19.39	19.99	19.90	20.50	20.99	20.00	20.61	20.52	21.12	21.60
	12H	19.44	19.97	19.95	20.47	21.03	20.17	20.70	20.68	21.20	21.76
12H	4H	18.94	19.67	19.42	20.15	20.62	19.32	20.05	19.80	20.53	21.00
	6H	19.32	19.93	19.83	20.43	20.92	19.82	20.43	20.34	20.94	21.43
	8H	19.45	19.98	19.96	20.48	21.04	20.06	20.59	20.56	21.08	21.64

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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