

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: P1499158

Luminaire Tested: MAE-G-4-120-1STD-STD-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499158
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-4-120-1STD-STD-35-90-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

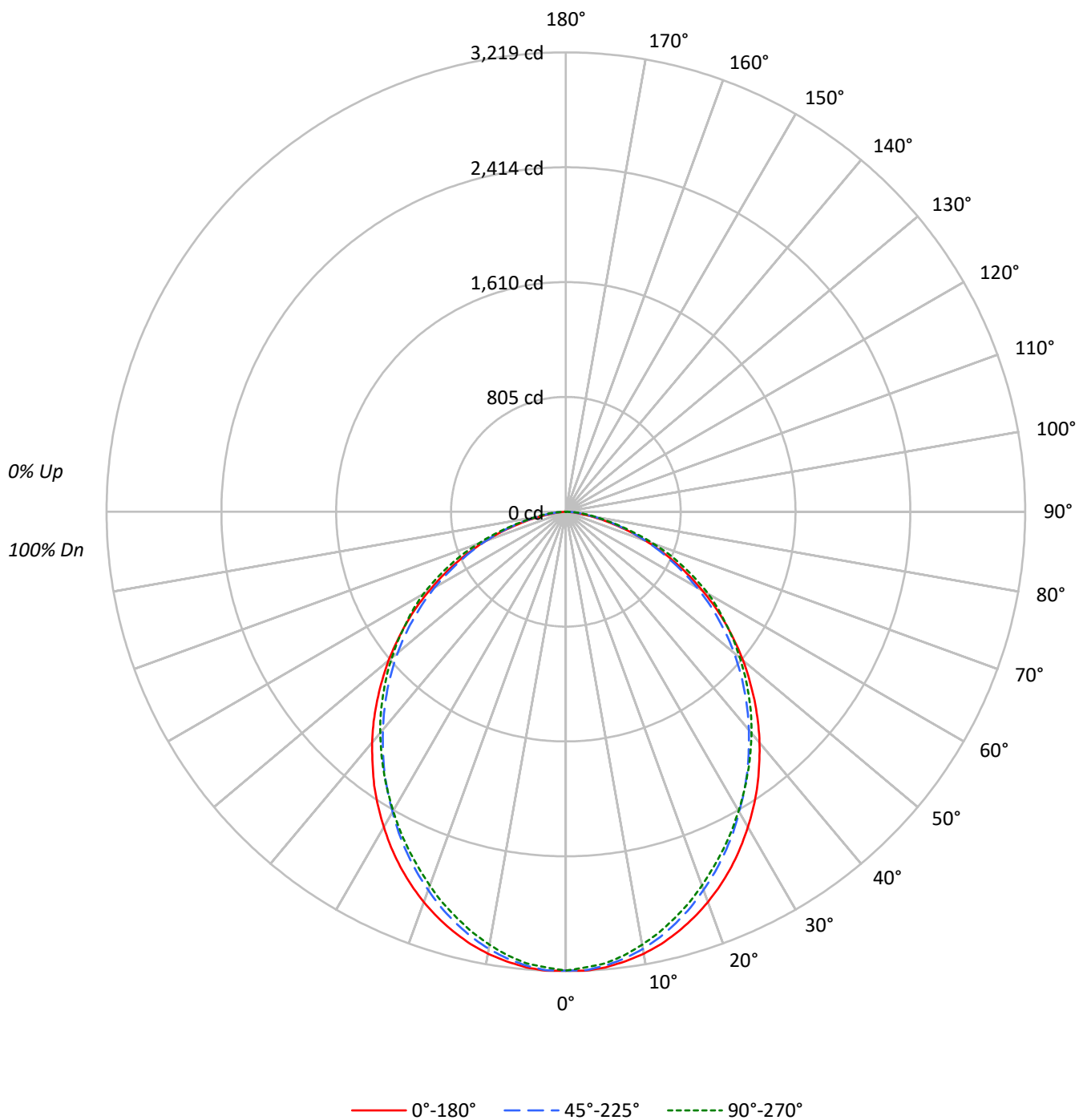
Lumens per Lamp: N/A
Luminaire Lumens: 7694.0 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 102.6
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	82	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	61	56		64
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53
7	67	53	45	39	65	53	45	39	51	44	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4326	4326	4326
5°	4328	4311	4290
10°	4296	4249	4209
15°	4242	4155	4105
20°	4168	4039	3991
25°	4075	3914	3874
30°	3964	3774	3760
35°	3845	3642	3654
40°	3709	3504	3555
45°	3557	3367	3445
50°	3395	3221	3331
55°	3207	3050	3211
60°	2976	2855	3105
65°	2708	2601	2886
70°	2350	2338	2572
75°	1875	1991	2113
80°	1297	1537	1676
85°	726	1172	1525

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3557 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.8	3.9
10°-20°	841.3	10.9
20°-30°	1222.2	15.9
30°-40°	1406.5	18.3
40°-50°	1392.1	18.1
50°-60°	1192.0	15.5
60°-70°	840.7	10.9
70°-80°	408.5	5.3
80°-90°	88.9	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°	2365.3	30.7
0°-40°	3771.8	49.0
0°-60°	6355.9	82.6
0°-90°	7694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7694.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3215	3215	3215	3215	3215	
5°	3204	3201	3192	3169	3176	304
15°	3045	3028	2983	2943	2947	858
25°	2745	2705	2636	2602	2610	1263
35°	2341	2286	2217	2209	2225	1463
45°	1869	1819	1769	1791	1811	1442
55°	1367	1321	1300	1339	1369	1220
65°	851	814	817	879	907	842
75°	361	345	383	406	406	389
85°	47	57	76	92	99	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3215.2	3215.2	3215.2	3215.2	3215.2
2.5°	3218.8	3221.5	3215.2	3191.1	3195.3
5°	3204.1	3201.4	3191.8	3169.2	3176.4
7.5°	3178.5	3174.1	3156.8	3130.1	3134.8
10°	3144.6	3135.8	3110.1	3076.8	3080.7
12.5°	3100.6	3088.7	3052.7	3014.9	3019.1
15°	3045.4	3028.5	2982.6	2942.8	2947.1
17.5°	2982.3	2962.9	2907.3	2864.2	2873.3
20°	2910.7	2884.4	2820.6	2779.7	2787.6
22.5°	2831.7	2798.8	2731.8	2692.4	2698.5
25°	2744.9	2704.9	2636.1	2602.4	2609.8
27.5°	2651.3	2607.2	2536.6	2505.8	2517.1
30°	2551.3	2504.0	2429.1	2407.9	2420.3
32.5°	2448.8	2398.4	2324.6	2311.1	2323.4
35°	2341.1	2286.1	2217.4	2209.2	2224.7
37.5°	2225.8	2173.0	2105.1	2110.4	2125.0
40°	2111.6	2056.9	1994.9	2006.6	2024.2
42.5°	1992.9	1940.1	1883.5	1899.9	1920.4
45°	1869.2	1818.8	1769.4	1791.2	1810.7
47.5°	1745.0	1695.1	1655.0	1680.5	1703.7
50°	1621.8	1573.9	1538.7	1569.6	1591.5
52.5°	1492.4	1446.8	1421.6	1454.3	1482.4
55°	1367.0	1320.6	1300.3	1339.2	1368.9
57.5°	1237.4	1199.4	1181.9	1227.4	1264.6
60°	1105.8	1068.3	1060.8	1118.5	1153.7
62.5°	977.2	940.4	937.1	1004.6	1030.0
65°	850.6	814.2	817.1	879.4	906.6
67.5°	725.1	691.8	707.1	766.8	785.1
70°	597.3	567.6	594.4	644.9	653.9
72.5°	477.3	452.3	488.7	524.0	526.1
75°	360.7	345.3	382.9	406.2	406.4
77.5°	258.2	250.0	284.7	300.6	301.5
80°	167.4	171.1	198.3	210.8	216.3
82.5°	97.6	106.2	127.5	148.7	154.3
85°	47.0	57.3	75.9	92.2	98.8
87.5°	16.2	23.1	31.6	35.1	34.1
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	15.89	17.47	16.25	17.78	18.10	16.06	17.64	16.42	17.95	18.27
	3H	17.34	18.76	17.71	19.09	19.45	17.70	19.13	18.08	19.45	19.81
	4H	17.76	19.10	18.16	19.45	19.83	18.20	19.54	18.60	19.89	20.27
	6H	17.98	19.22	18.40	19.59	19.98	18.50	19.74	18.91	20.10	20.49
	8H	18.02	19.20	18.44	19.59	19.99	18.59	19.77	19.01	20.15	20.55
	12H	18.02	19.15	18.45	19.53	19.96	18.65	19.78	19.08	20.16	20.59
4H	2H	16.40	17.74	16.80	18.09	18.47	16.54	17.88	16.94	18.23	18.60
	3H	18.04	19.15	18.45	19.55	19.95	18.39	19.50	18.80	19.90	20.30
	4H	18.55	19.55	18.98	19.97	20.41	19.00	20.01	19.44	20.42	20.86
	6H	18.85	19.72	19.31	20.17	20.62	19.40	20.28	19.86	20.72	21.18
	8H	18.91	19.72	19.37	20.17	20.63	19.52	20.34	19.99	20.78	21.25
	12H	18.93	19.66	19.41	20.14	20.61	19.62	20.35	20.10	20.83	21.30
8H	4H	18.77	19.59	19.24	20.03	20.50	19.19	20.00	19.65	20.45	20.91
	6H	19.14	19.82	19.64	20.31	20.78	19.66	20.34	20.16	20.83	21.31
	8H	19.23	19.83	19.74	20.34	20.83	19.84	20.45	20.35	20.95	21.44
	12H	19.28	19.82	19.79	20.31	20.87	20.00	20.53	20.51	21.02	21.59
12H	4H	18.79	19.52	19.27	19.99	20.46	19.18	19.92	19.67	20.39	20.86
	6H	19.16	19.77	19.67	20.28	20.76	19.67	20.28	20.18	20.78	21.27
	8H	19.29	19.83	19.80	20.32	20.88	19.89	20.42	20.40	20.91	21.48