

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: P1498267

Luminaire Tested: MAE-G-2-120-1STD-LO-30-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498267
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-LO-30-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

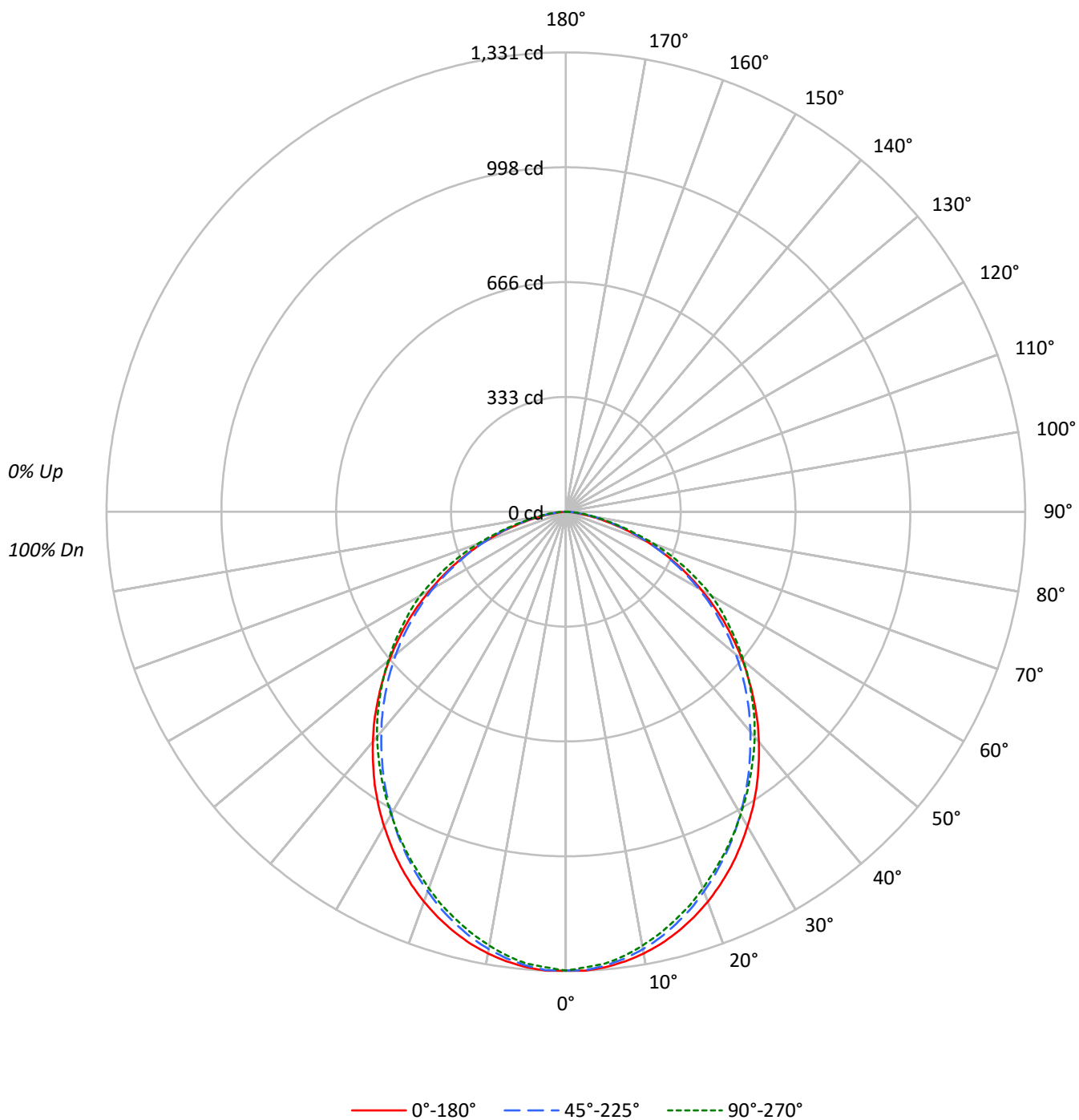
Lumens per Lamp: N/A
Luminaire Lumens: 3196.0 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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	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	57	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	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°	3577	3577	3577
5°	3578	3565	3550
10°	3551	3517	3488
15°	3506	3443	3411
20°	3443	3352	3324
25°	3365	3252	3235
30°	3271	3140	3147
35°	3172	3034	3065
40°	3058	2922	2989
45°	2930	2811	2903
50°	2794	2691	2814
55°	2638	2550	2716
60°	2444	2387	2624
65°	2221	2171	2419
70°	1924	1940	2124
75°	1533	1627	1694
80°	1057	1224	1296
85°	587	914	1167

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2930 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.8	3.9
10°-20°	348.6	10.9
20°-30°	507.6	15.9
30°-40°	585.4	18.3
40°-50°	580.5	18.2
50°-60°	497.7	15.6
60°-70°	349.8	10.9
70°-80°	166.6	5.2
80°-90°	35.0	1.1
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°	981.0	30.7
0°-40°	1566.4	49.0
0°-60°	2644.6	82.7
0°-90°	3196.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3196.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1329	1329	1329	1329	1329	
5°	1324	1323	1320	1311	1314	126
15°	1258	1252	1236	1222	1224	355
25°	1133	1119	1095	1085	1090	522
35°	966	946	924	925	933	603
45°	770	753	739	753	763	594
55°	562	546	544	564	579	502
65°	349	337	341	368	380	345
75°	147	142	156	164	163	159
85°	19	23	30	36	38	27
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1329.2	1329.2	1329.2	1329.2	1329.2
2.5°	1330.7	1331.7	1329.2	1319.6	1321.0
5°	1324.5	1323.3	1319.7	1311.3	1314.1
7.5°	1313.9	1312.2	1305.7	1295.9	1297.8
10°	1299.7	1296.4	1287.0	1274.8	1276.6
12.5°	1281.4	1277.1	1264.0	1250.5	1252.6
15°	1258.4	1252.2	1235.8	1222.0	1224.4
17.5°	1232.1	1225.3	1205.5	1190.7	1195.2
20°	1202.2	1192.9	1170.4	1156.7	1160.9
22.5°	1169.4	1157.6	1134.2	1121.5	1125.2
25°	1133.3	1118.9	1095.3	1085.3	1089.6
27.5°	1094.3	1078.4	1054.8	1046.0	1052.2
30°	1052.7	1035.9	1010.5	1006.1	1012.8
32.5°	1010.3	992.3	967.6	966.6	973.3
35°	965.6	946.0	923.7	924.9	933.1
37.5°	917.7	899.1	877.3	884.4	892.3
40°	870.4	851.1	831.9	841.7	851.0
42.5°	821.3	802.9	785.9	797.6	808.3
45°	769.9	752.8	738.6	752.6	762.9
47.5°	718.5	701.5	691.1	706.6	718.5
50°	667.5	651.4	642.9	660.6	672.2
52.5°	614.2	598.7	594.2	612.6	626.6
55°	562.2	546.4	543.5	564.5	579.0
57.5°	508.6	496.3	494.2	517.4	535.0
60°	454.2	441.8	443.6	471.4	487.6
62.5°	401.1	388.9	391.5	422.6	433.6
65°	348.8	336.6	341.0	368.1	379.9
67.5°	297.3	285.9	294.7	319.5	327.1
70°	244.6	234.5	246.6	266.9	270.0
72.5°	195.3	186.7	201.5	214.6	214.6
75°	147.4	142.3	156.5	164.0	162.9
77.5°	105.3	102.7	115.1	119.4	118.5
80°	68.2	69.7	79.0	81.9	83.6
82.5°	39.7	42.9	50.0	57.6	59.3
85°	19.0	22.9	29.6	35.5	37.8
87.5°	6.6	9.2	12.2	13.5	13.1
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	15.21	16.79	15.57	17.10	17.42	15.52	17.10	15.88	17.42	17.73
	3H	16.65	18.07	17.02	18.40	18.76	17.12	18.55	17.50	18.87	19.23
	4H	17.07	18.41	17.47	18.75	19.13	17.59	18.92	17.99	19.27	19.65
	6H	17.28	18.52	17.69	18.89	19.28	17.84	19.08	18.25	19.44	19.84
	8H	17.32	18.50	17.74	18.88	19.28	17.91	19.09	18.34	19.48	19.88
	12H	17.32	18.45	17.75	18.83	19.26	17.96	19.09	18.39	19.47	19.90
4H	2H	15.74	17.07	16.13	17.42	17.80	15.99	17.33	16.39	17.68	18.05
	3H	17.36	18.47	17.77	18.87	19.27	17.80	18.91	18.21	19.31	19.71
	4H	17.86	18.87	18.30	19.28	19.72	18.37	19.37	18.80	19.79	20.22
	6H	18.16	19.03	18.61	19.47	19.93	18.72	19.59	19.17	20.03	20.49
	8H	18.21	19.03	18.67	19.47	19.94	18.82	19.64	19.28	20.08	20.55
	12H	18.23	18.96	18.71	19.44	19.91	18.90	19.63	19.38	20.11	20.58
8H	4H	18.08	18.90	18.54	19.34	19.81	18.54	19.35	19.00	19.80	20.26
	6H	18.44	19.11	18.93	19.60	20.08	18.96	19.64	19.46	20.13	20.60
	8H	18.52	19.13	19.04	19.64	20.12	19.11	19.72	19.62	20.22	20.71
	12H	18.57	19.11	19.08	19.60	20.16	19.25	19.78	19.76	20.27	20.84
12H	4H	18.09	18.82	18.57	19.30	19.77	18.54	19.27	19.02	19.74	20.21
	6H	18.45	19.06	18.97	19.57	20.05	18.96	19.57	19.48	20.08	20.56
	8H	18.58	19.11	19.09	19.60	20.17	19.16	19.69	19.66	20.18	20.74