

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: P1498075

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498075
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-2-120-1HI-LO-30-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

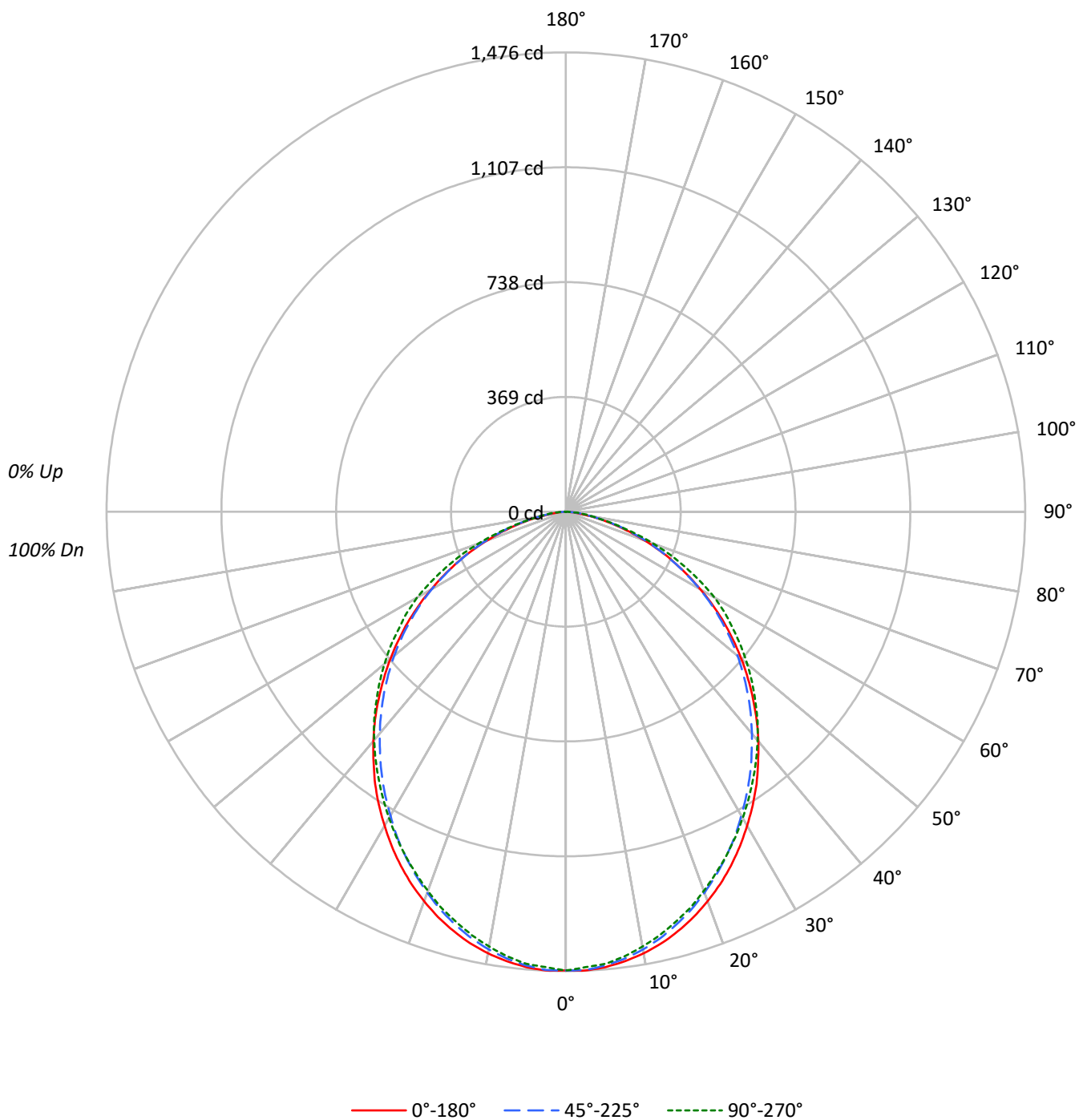
Lumens per Lamp: N/A
Luminaire Lumens: 3560.0 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 47.1
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	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64
5	78	65	56	50	76	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	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3966	3966	3966
5°	3967	3953	3938
10°	3937	3903	3877
15°	3886	3825	3800
20°	3814	3729	3712
25°	3726	3623	3621
30°	3620	3503	3530
35°	3509	3389	3446
40°	3380	3267	3368
45°	3237	3146	3278
50°	3085	3015	3184
55°	2910	2857	3077
60°	2693	2676	2971
65°	2444	2430	2717
70°	2114	2157	2352
75°	1679	1785	1822
80°	1153	1308	1340
85°	639	951	1192

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3278 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	3.9
10°-20°	387.4	10.9
20°-30°	565.3	15.9
30°-40°	653.2	18.3
40°-50°	648.9	18.2
50°-60°	557.2	15.7
60°-70°	390.3	11.0
70°-80°	182.4	5.1
80°-90°	36.9	1.0
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°	1091.2	30.7
0°-40°	1744.4	49.0
0°-60°	2950.5	82.9
0°-90°	3560.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3560.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1474	1474	1474	1474	1474	
5°	1468	1467	1463	1455	1458	139
15°	1395	1389	1373	1361	1364	393
25°	1255	1241	1220	1213	1220	577
35°	1068	1050	1032	1038	1049	667
45°	851	836	827	848	861	656
55°	620	606	609	638	656	554
65°	384	373	382	413	427	380
75°	162	157	172	178	175	175
85°	21	25	31	36	39	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1473.8	1473.8	1473.8	1473.8	1473.8
2.5°	1475.5	1476.5	1473.8	1463.5	1464.7
5°	1468.4	1467.0	1463.4	1455.0	1458.0
7.5°	1456.6	1454.9	1448.4	1438.8	1440.9
10°	1440.7	1437.4	1428.2	1416.5	1418.7
12.5°	1420.4	1416.3	1403.5	1390.9	1393.6
15°	1394.7	1388.7	1373.1	1360.7	1363.9
17.5°	1365.2	1359.1	1340.5	1327.4	1333.2
20°	1331.8	1323.1	1302.3	1290.7	1296.4
22.5°	1295.3	1284.1	1262.8	1252.6	1258.0
25°	1255.0	1241.2	1220.3	1213.4	1219.7
27.5°	1211.4	1196.4	1176.1	1170.6	1179.1
30°	1165.1	1149.3	1127.2	1126.9	1136.2
32.5°	1117.8	1101.1	1080.0	1083.7	1092.9
35°	1068.1	1049.8	1031.7	1037.8	1049.0
37.5°	1014.8	997.7	980.3	993.4	1004.2
40°	962.3	944.5	930.0	946.4	958.7
42.5°	907.8	891.1	879.1	897.4	911.7
45°	850.7	835.6	826.6	847.5	861.3
47.5°	793.6	778.4	773.7	796.3	811.9
50°	737.0	722.9	720.1	745.1	760.6
52.5°	678.0	664.5	665.7	691.4	709.6
55°	620.3	606.3	609.0	637.5	655.9
57.5°	560.8	550.8	553.9	584.4	606.4
60°	500.3	490.1	497.3	532.3	552.1
62.5°	441.7	431.3	438.5	476.5	489.1
65°	383.8	373.3	381.6	413.0	426.7
67.5°	327.1	316.9	329.2	357.0	365.3
70°	268.7	259.9	274.2	296.2	298.9
72.5°	214.5	206.7	222.9	235.8	234.8
75°	161.5	157.3	171.7	177.8	175.2
77.5°	115.3	113.1	124.9	127.1	124.7
80°	74.4	76.1	84.4	85.3	86.5
82.5°	43.2	46.4	52.5	59.6	61.0
85°	20.7	24.6	30.8	36.5	38.6
87.5°	7.3	9.9	12.6	13.9	13.5
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	15.55	17.13	15.91	17.44	17.76	16.00	17.58	16.36	17.89	18.21
	3H	16.98	18.40	17.35	18.73	19.09	17.56	18.98	17.94	19.31	19.67
	4H	17.39	18.73	17.79	19.08	19.46	17.99	19.33	18.39	19.68	20.05
	6H	17.60	18.84	18.02	19.21	19.60	18.21	19.45	18.62	19.81	20.20
	8H	17.63	18.81	18.06	19.20	19.60	18.27	19.44	18.69	19.83	20.23
	12H	17.64	18.77	18.07	19.15	19.58	18.30	19.43	18.73	19.81	20.24
4H	2H	16.09	17.43	16.49	17.77	18.15	16.46	17.79	16.85	18.14	18.52
	3H	17.70	18.81	18.11	19.21	19.61	18.22	19.33	18.63	19.73	20.13
	4H	18.20	19.20	18.63	19.62	20.05	18.75	19.75	19.18	20.17	20.61
	6H	18.49	19.36	18.94	19.80	20.26	19.06	19.93	19.52	20.37	20.83
	8H	18.54	19.35	19.00	19.79	20.26	19.14	19.96	19.61	20.40	20.87
	12H	18.56	19.28	19.04	19.76	20.23	19.21	19.94	19.69	20.42	20.89
8H	4H	18.41	19.23	18.87	19.67	20.14	18.91	19.73	19.38	20.17	20.64
	6H	18.76	19.43	19.25	19.92	20.40	19.29	19.96	19.78	20.45	20.92
	8H	18.84	19.44	19.35	19.95	20.44	19.41	20.01	19.92	20.52	21.01
	12H	18.89	19.42	19.39	19.91	20.47	19.53	20.06	20.04	20.55	21.11
12H	4H	18.42	19.15	18.90	19.62	20.09	18.91	19.64	19.39	20.12	20.59
	6H	18.77	19.37	19.28	19.88	20.37	19.28	19.89	19.80	20.40	20.88
	8H	18.89	19.42	19.39	19.91	20.47	19.45	19.98	19.96	20.47	21.04