

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: P1498708

Luminaire Tested: MAE-G-2-120-3LO-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3LO-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

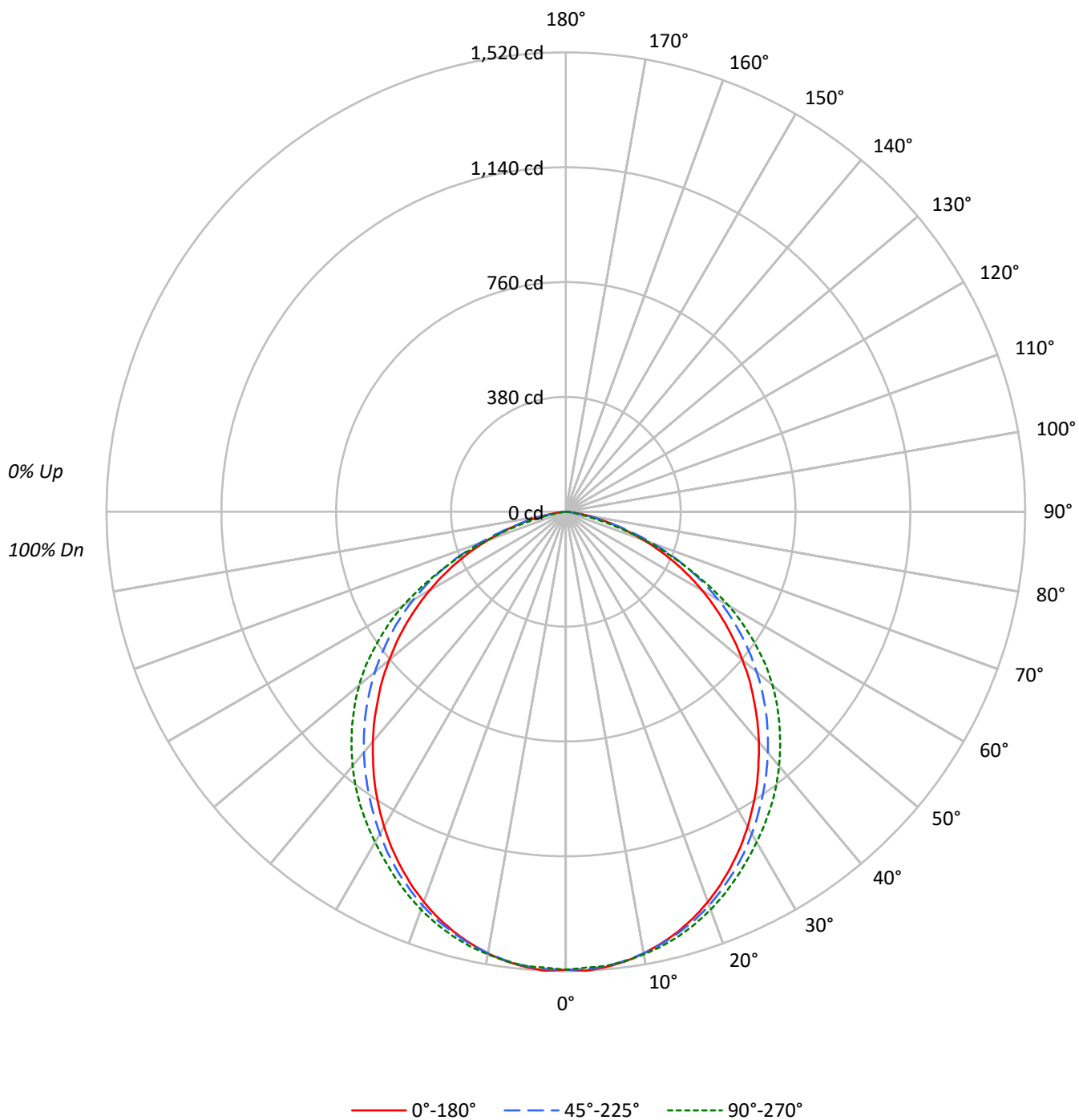
Lumens per Lamp: N/A
Luminaire Lumens: 3840.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.7
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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	65	59	55	53		
5	78	65	56	50	76	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	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4077	4077	4077
5°	4086	4077	4075
10°	4056	4054	4063
15°	4004	4017	4046
20°	3934	3970	4012
25°	3843	3904	3966
30°	3739	3824	3924
35°	3621	3737	3894
40°	3490	3652	3855
45°	3347	3562	3806
50°	3193	3452	3738
55°	3021	3318	3594
60°	2803	3136	3354
65°	2532	2860	2873
70°	2161	2400	2233
75°	1697	1752	1373
80°	1108	900	532
85°	531	355	281

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3806 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.1	3.7
10°-20°	406.3	10.6
20°-30°	604.3	15.7
30°-40°	712.1	18.5
40°-50°	722.0	18.8
50°-60°	629.1	16.4
60°-70°	430.3	11.2
70°-80°	172.8	4.5
80°-90°	20.0	0.5
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°	1153.7	30.0
0°-40°	1865.8	48.6
0°-60°	3216.9	83.8
0°-90°	3840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1515	1515	1515	1515	1515	
5°	1513	1504	1509	1508	1509	143
15°	1437	1431	1442	1448	1452	405
25°	1294	1295	1315	1324	1336	596
35°	1102	1107	1138	1165	1185	689
45°	880	892	936	978	1000	679
55°	644	658	707	752	766	575
65°	398	416	449	453	451	393
75°	163	174	168	145	132	175
85°	17	15	12	10	9	27
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1515.1	1515.1	1515.1	1515.1	1515.1
2.5°	1520.0	1509.8	1515.1	1514.0	1510.1
5°	1512.6	1503.5	1509.4	1507.7	1508.7
7.5°	1500.7	1492.3	1498.6	1498.3	1500.0
10°	1484.3	1475.8	1483.6	1485.0	1487.1
12.5°	1462.5	1455.5	1465.0	1467.8	1472.0
15°	1437.3	1431.0	1441.8	1447.8	1452.4
17.5°	1407.8	1402.6	1416.6	1422.2	1428.5
20°	1373.9	1370.1	1386.5	1391.7	1400.9
22.5°	1336.1	1334.0	1351.1	1359.1	1369.7
25°	1294.3	1294.7	1315.0	1324.5	1335.7
27.5°	1250.6	1251.3	1274.4	1287.7	1299.6
30°	1203.3	1205.4	1230.6	1247.1	1262.8
32.5°	1153.2	1157.4	1184.7	1207.2	1224.7
35°	1102.4	1107.3	1137.5	1165.4	1185.4
37.5°	1047.4	1055.5	1089.5	1122.8	1143.4
40°	993.5	1001.5	1039.7	1076.5	1097.5
42.5°	937.8	947.9	988.6	1029.5	1049.8
45°	879.6	891.5	936.0	978.1	1000.1
47.5°	823.9	834.4	881.3	925.2	947.9
50°	762.6	775.9	824.6	870.5	893.0
52.5°	704.1	716.4	766.4	813.4	833.7
55°	643.9	657.5	707.3	751.7	766.1
57.5°	582.2	598.7	646.7	683.8	697.5
60°	520.9	537.3	582.6	613.1	623.2
62.5°	459.9	477.5	517.1	537.3	537.3
65°	397.6	415.5	449.1	452.6	451.2
67.5°	335.3	353.1	378.7	372.3	368.2
70°	274.6	290.0	305.1	293.5	283.8
72.5°	215.8	230.5	233.0	216.2	203.9
75°	163.2	174.1	168.5	144.7	132.1
77.5°	113.8	120.2	108.2	84.1	73.9
80°	71.5	74.3	58.1	41.0	34.3
82.5°	38.6	38.9	25.2	20.7	19.3
85°	17.2	15.4	11.5	10.1	9.1
87.5°	6.0	5.3	4.2	3.9	3.2
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	15.81	17.39	16.17	17.71	18.02	16.79	18.38	17.16	18.69	19.00
	3H	17.22	18.64	17.60	18.97	19.33	18.00	19.42	18.37	19.75	20.11
	4H	17.61	18.95	18.01	19.29	19.67	18.21	19.55	18.61	19.90	20.27
	6H	17.79	19.02	18.20	19.39	19.78	18.23	19.46	18.64	19.83	20.22
	8H	17.80	18.98	18.23	19.37	19.77	18.21	19.38	18.63	19.77	20.17
	12H	17.79	18.92	18.22	19.30	19.73	18.18	19.31	18.61	19.69	20.12
4H	2H	16.48	17.81	16.88	18.16	18.54	17.27	18.60	17.67	18.95	19.33
	3H	18.05	19.15	18.46	19.55	19.95	18.64	19.75	19.05	20.14	20.54
	4H	18.52	19.52	18.96	19.93	20.37	18.91	19.91	19.34	20.32	20.76
	6H	18.76	19.63	19.22	20.07	20.53	18.96	19.83	19.42	20.27	20.73
	8H	18.79	19.59	19.25	20.04	20.50	18.94	19.74	19.40	20.19	20.65
	12H	18.79	19.51	19.27	19.98	20.45	18.92	19.64	19.40	20.11	20.59
8H	4H	18.67	19.47	19.13	19.92	20.38	19.03	19.83	19.49	20.28	20.74
	6H	18.95	19.61	19.44	20.10	20.57	19.09	19.75	19.59	20.24	20.72
	8H	18.99	19.58	19.50	20.09	20.57	19.07	19.66	19.58	20.17	20.66
	12H	19.00	19.52	19.51	20.01	20.58	19.05	19.57	19.56	20.07	20.63
12H	4H	18.65	19.37	19.13	19.85	20.32	19.02	19.74	19.50	20.22	20.69
	6H	18.92	19.51	19.43	20.02	20.50	19.07	19.66	19.58	20.17	20.66
	8H	18.98	19.50	19.49	19.99	20.56	19.07	19.59	19.58	20.08	20.65