

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: P1499590

Luminaire Tested: MAE-G-4-120-3LO-HI-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499590
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-4-120-3LO-HI-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

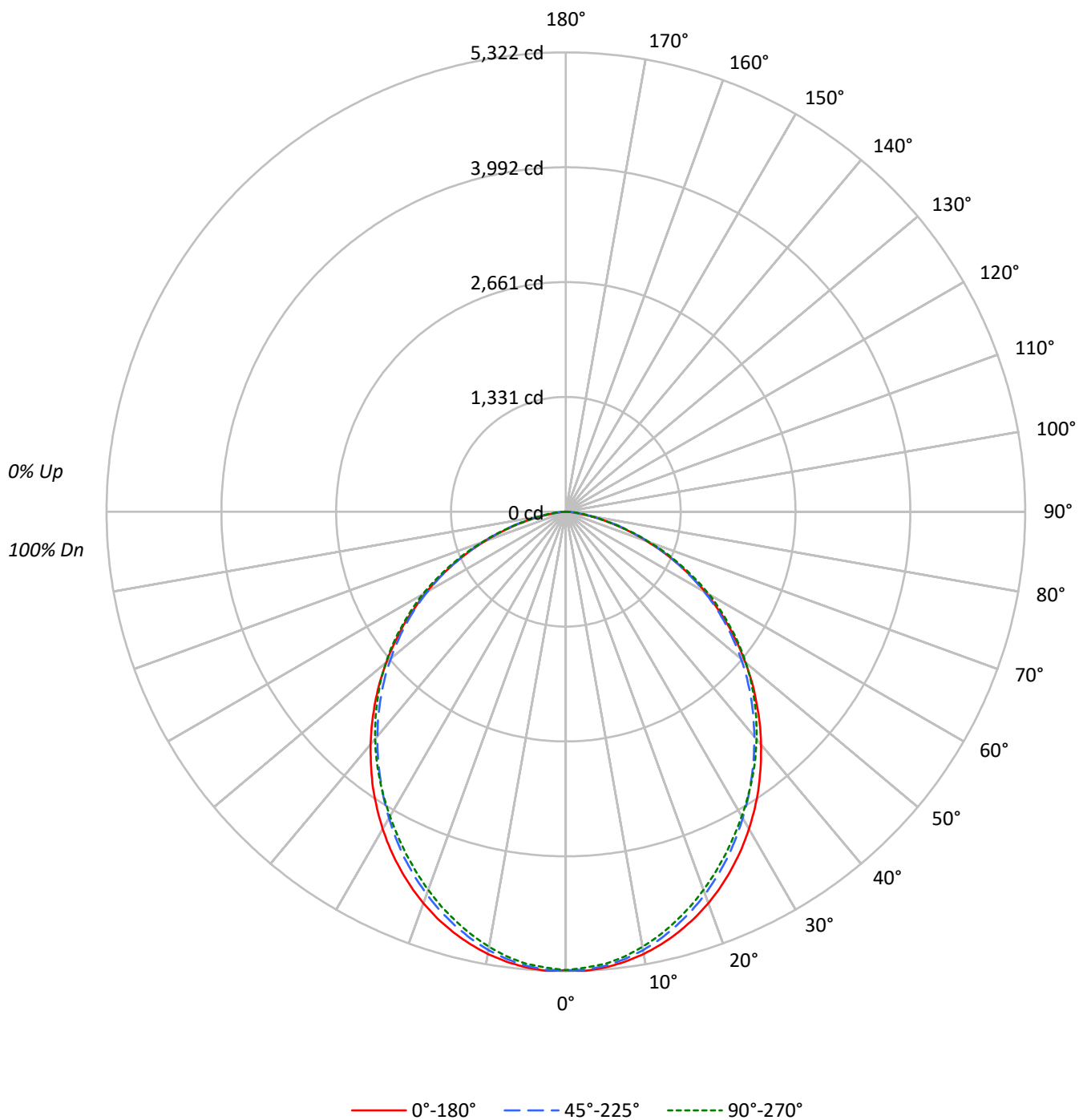
Lumens per Lamp: N/A
Luminaire Lumens: 12930.0 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 160.9
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	80	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	56	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	42	42	42	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	34	46	39	34	44	39	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7145	7145	7145
5°	7157	7132	7101
10°	7109	7046	6993
15°	7024	6913	6844
20°	6911	6752	6676
25°	6763	6570	6497
30°	6593	6367	6331
35°	6401	6164	6186
40°	6182	5966	6038
45°	5944	5766	5878
50°	5684	5544	5695
55°	5389	5292	5455
60°	5025	4976	5164
65°	4574	4565	4698
70°	3952	4017	4078
75°	3152	3285	3230
80°	2142	2304	2328
85°	1125	1572	2005

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5944 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.4	3.9
10°-20°	1398.2	10.8
20°-30°	2043.9	15.8
30°-40°	2369.0	18.3
40°-50°	2363.9	18.3
50°-60°	2036.5	15.8
60°-70°	1426.3	11.0
70°-80°	665.4	5.1
80°-90°	127.4	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°	3941.4	30.5
0°-40°	6310.4	48.8
0°-60°	10710.8	82.8
0°-90°	12930.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12930.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5310	5310	5310	5310	5310	
5°	5299	5280	5280	5249	5257	503
15°	5043	5007	4962	4909	4914	1421
25°	4556	4500	4425	4367	4376	2098
35°	3897	3825	3753	3741	3766	2435
45°	3124	3062	3030	3062	3089	2410
55°	2297	2246	2256	2306	2326	2051
65°	1437	1409	1434	1466	1476	1420
75°	606	600	632	630	621	651
85°	73	82	102	121	130	107
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5310.5	5310.5	5310.5	5310.5	5310.5
2.5°	5322.4	5305.4	5310.5	5286.1	5285.8
5°	5299.2	5279.9	5280.2	5249.0	5257.4
7.5°	5258.3	5236.1	5227.6	5191.8	5198.5
10°	5203.0	5175.2	5157.0	5114.1	5118.3
12.5°	5129.4	5098.5	5068.5	5018.0	5024.3
15°	5042.6	5006.7	4962.5	4908.8	4913.5
17.5°	4942.1	4900.5	4846.1	4785.2	4794.5
20°	4827.0	4780.0	4715.3	4651.5	4662.7
22.5°	4697.8	4646.0	4574.1	4512.8	4522.2
25°	4555.6	4500.1	4425.2	4366.7	4376.4
27.5°	4406.0	4343.8	4265.0	4215.1	4226.4
30°	4243.9	4177.9	4098.2	4057.0	4074.8
32.5°	4073.0	4005.2	3928.5	3901.3	3922.7
35°	3896.8	3824.7	3752.8	3740.9	3766.3
37.5°	3707.5	3642.1	3576.5	3579.8	3605.2
40°	3519.5	3451.7	3396.7	3410.2	3437.7
42.5°	3324.6	3261.0	3215.4	3240.4	3265.3
45°	3123.7	3061.6	3030.1	3061.6	3088.9
47.5°	2924.6	2862.9	2842.7	2880.0	2910.6
50°	2715.4	2659.3	2648.8	2694.4	2720.6
52.5°	2504.4	2451.3	2453.5	2503.4	2530.4
55°	2297.1	2245.9	2255.9	2305.9	2325.5
57.5°	2081.7	2041.7	2056.3	2102.4	2124.6
60°	1867.4	1830.2	1849.0	1896.5	1919.0
62.5°	1652.2	1620.6	1642.9	1686.8	1698.5
65°	1436.7	1408.8	1434.0	1466.5	1475.5
67.5°	1218.0	1198.5	1227.6	1254.3	1258.6
70°	1004.5	984.6	1021.2	1040.4	1036.7
72.5°	797.0	786.2	818.9	830.8	820.9
75°	606.3	599.7	631.9	629.6	621.4
77.5°	429.6	427.5	453.3	448.4	446.0
80°	276.5	284.2	297.4	302.3	300.4
82.5°	156.1	167.4	178.2	199.8	208.7
85°	72.9	81.9	101.8	121.3	129.9
87.5°	24.7	31.7	42.4	46.1	43.5
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	17.77	19.35	18.13	19.66	19.98	17.96	19.55	18.33	19.86	20.17
	3H	19.23	20.65	19.60	20.98	21.34	19.45	20.88	19.83	21.21	21.57
	4H	19.65	20.99	20.05	21.34	21.72	19.88	21.22	20.28	21.57	21.95
	6H	19.86	21.10	20.27	21.47	21.86	20.10	21.34	20.51	21.71	22.10
	8H	19.89	21.07	20.32	21.46	21.86	20.15	21.33	20.58	21.72	22.12
	12H	19.89	21.02	20.32	21.40	21.83	20.19	21.32	20.62	21.70	22.13
4H	2H	18.32	19.66	18.72	20.01	20.39	18.48	19.82	18.88	20.17	20.55
	3H	19.96	21.08	20.37	21.48	21.88	20.17	21.28	20.58	21.68	22.08
	4H	20.48	21.48	20.91	21.89	22.33	20.69	21.69	21.12	22.11	22.55
	6H	20.76	21.64	21.22	22.08	22.54	20.99	21.87	21.45	22.31	22.76
	8H	20.81	21.62	21.27	22.07	22.53	21.07	21.88	21.53	22.33	22.79
	12H	20.82	21.55	21.31	22.03	22.50	21.13	21.86	21.61	22.33	22.80
8H	4H	20.67	21.49	21.14	21.93	22.40	20.87	21.68	21.33	22.13	22.59
	6H	21.02	21.69	21.51	22.18	22.66	21.23	21.90	21.73	22.39	22.87
	8H	21.09	21.69	21.60	22.20	22.69	21.34	21.95	21.86	22.46	22.94
	12H	21.13	21.66	21.64	22.15	22.72	21.44	21.98	21.95	22.47	23.03
12H	4H	20.68	21.40	21.16	21.88	22.35	20.87	21.59	21.35	22.07	22.54
	6H	21.02	21.62	21.53	22.13	22.62	21.23	21.83	21.74	22.34	22.83
	8H	21.13	21.66	21.64	22.15	22.72	21.38	21.91	21.89	22.40	22.97