

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: P1499200

Luminaire Tested: MAE-G-4-120-2HI-HI-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2HI-HI-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

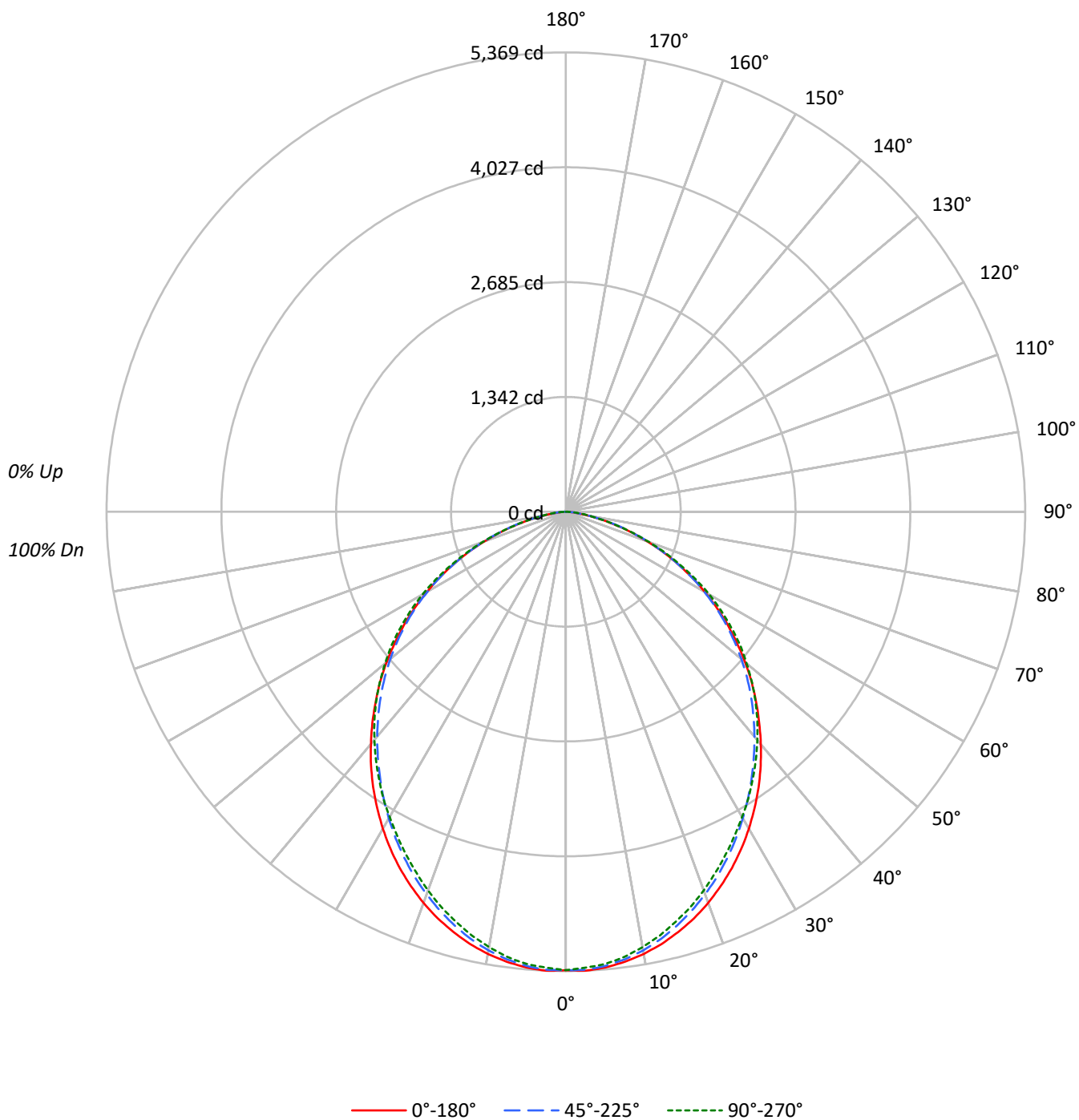
Lumens per Lamp: N/A
Luminaire Lumens: 13042.0 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 177.5
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	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85		
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	78	65	56	50	75	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	45	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7209	7209	7209
5°	7220	7196	7164
10°	7169	7111	7057
15°	7081	6977	6910
20°	6966	6813	6744
25°	6819	6629	6562
30°	6646	6429	6399
35°	6450	6221	6258
40°	6226	6025	6115
45°	5985	5824	5965
50°	5723	5606	5775
55°	5420	5348	5537
60°	5056	5027	5219
65°	4598	4599	4731
70°	3971	4016	4074
75°	3164	3255	3216
80°	2142	2261	2268
85°	1101	1510	1928

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5985 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.9	3.9
10°-20°	1411.2	10.8
20°-30°	2063.4	15.8
30°-40°	2393.1	18.3
40°-50°	2388.9	18.3
50°-60°	2057.8	15.8
60°-70°	1436.1	11.0
70°-80°	663.4	5.1
80°-90°	124.4	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°	3978.4	30.5
0°-40°	6371.5	48.9
0°-60°	10818.2	82.9
0°-90°	13042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13042.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5358	5358	5358	5358	5358	
5°	5346	5326	5328	5297	5304	507
15°	5083	5048	5009	4957	4961	1433
25°	4593	4541	4465	4414	4420	2114
35°	3927	3860	3787	3785	3810	2454
45°	3146	3086	3061	3102	3135	2427
55°	2311	2265	2280	2336	2360	2063
65°	1444	1422	1445	1470	1486	1429
75°	609	602	626	621	619	655
85°	71	80	98	117	125	106
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5358.0	5358.0	5358.0	5358.0	5358.0
2.5°	5369.0	5351.5	5358.0	5334.7	5333.1
5°	5345.5	5326.2	5328.2	5297.4	5304.4
7.5°	5304.5	5282.0	5276.1	5241.3	5247.7
10°	5247.4	5219.9	5204.8	5162.1	5165.4
12.5°	5174.3	5143.1	5116.9	5067.7	5073.3
15°	5083.4	5048.3	5009.1	4957.4	4960.6
17.5°	4983.3	4945.1	4890.0	4835.2	4844.1
20°	4864.8	4822.9	4758.0	4700.9	4710.3
22.5°	4733.6	4685.9	4618.3	4561.6	4566.8
25°	4593.3	4540.8	4465.1	4413.8	4420.2
27.5°	4441.0	4382.5	4305.4	4259.5	4270.2
30°	4277.4	4215.9	4138.0	4103.9	4119.0
32.5°	4105.1	4042.1	3966.3	3948.4	3971.0
35°	3926.8	3859.6	3787.3	3785.2	3810.2
37.5°	3741.1	3675.1	3610.1	3623.3	3649.4
40°	3544.7	3482.8	3430.1	3453.6	3481.7
42.5°	3347.1	3287.6	3247.5	3281.9	3312.3
45°	3145.5	3086.3	3060.7	3102.5	3134.8
47.5°	2945.1	2885.4	2872.8	2920.9	2949.9
50°	2734.0	2680.8	2678.3	2730.4	2758.9
52.5°	2520.9	2471.8	2480.9	2536.9	2571.7
55°	2310.6	2264.9	2279.9	2335.5	2360.2
57.5°	2094.4	2058.1	2077.6	2127.3	2151.7
60°	1879.0	1845.7	1868.1	1915.6	1939.5
62.5°	1661.5	1632.4	1658.2	1698.0	1713.6
65°	1444.2	1422.4	1444.7	1470.3	1485.9
67.5°	1230.3	1209.9	1234.2	1258.8	1264.4
70°	1009.3	996.4	1020.9	1035.5	1035.5
72.5°	805.8	793.2	816.5	822.0	817.9
75°	608.6	601.9	626.1	620.8	618.7
77.5°	429.3	432.5	445.2	441.3	440.3
80°	276.5	286.2	291.8	294.6	292.7
82.5°	155.4	164.3	172.7	193.2	201.3
85°	71.3	80.0	97.8	116.9	124.9
87.5°	24.1	31.0	41.1	44.2	41.9
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	17.79	19.37	18.15	19.69	20.00	18.01	19.60	18.38	19.91	20.23
	3H	19.25	20.68	19.63	21.01	21.37	19.48	20.90	19.86	21.23	21.59
	4H	19.68	21.02	20.08	21.37	21.74	19.90	21.23	20.29	21.58	21.96
	6H	19.89	21.12	20.30	21.49	21.88	20.10	21.34	20.51	21.71	22.10
	8H	19.91	21.09	20.34	21.48	21.88	20.15	21.33	20.57	21.72	22.12
	12H	19.91	21.04	20.34	21.42	21.85	20.18	21.30	20.61	21.69	22.12
4H	2H	18.35	19.69	18.75	20.03	20.41	18.53	19.87	18.93	20.22	20.59
	3H	19.99	21.10	20.40	21.50	21.90	20.18	21.30	20.59	21.69	22.09
	4H	20.50	21.50	20.93	21.92	22.35	20.69	21.69	21.12	22.11	22.54
	6H	20.79	21.66	21.24	22.10	22.56	20.98	21.85	21.43	22.29	22.75
	8H	20.83	21.64	21.29	22.09	22.55	21.05	21.86	21.51	22.30	22.77
	12H	20.84	21.57	21.32	22.05	22.52	21.10	21.82	21.58	22.30	22.77
8H	4H	20.69	21.50	21.15	21.95	22.41	20.86	21.67	21.32	22.12	22.58
	6H	21.03	21.70	21.53	22.19	22.67	21.21	21.88	21.70	22.37	22.84
	8H	21.10	21.70	21.61	22.21	22.70	21.31	21.91	21.82	22.42	22.91
	12H	21.14	21.67	21.64	22.16	22.72	21.40	21.93	21.91	22.42	22.99
12H	4H	20.69	21.42	21.17	21.89	22.36	20.86	21.59	21.34	22.06	22.53
	6H	21.03	21.63	21.54	22.14	22.63	21.20	21.81	21.72	22.31	22.80
	8H	21.13	21.67	21.64	22.16	22.72	21.34	21.87	21.85	22.36	22.93