

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: P1498678

Luminaire Tested: MAE-G-2-120-3HI-STD-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498678
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-2-120-3HI-STD-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

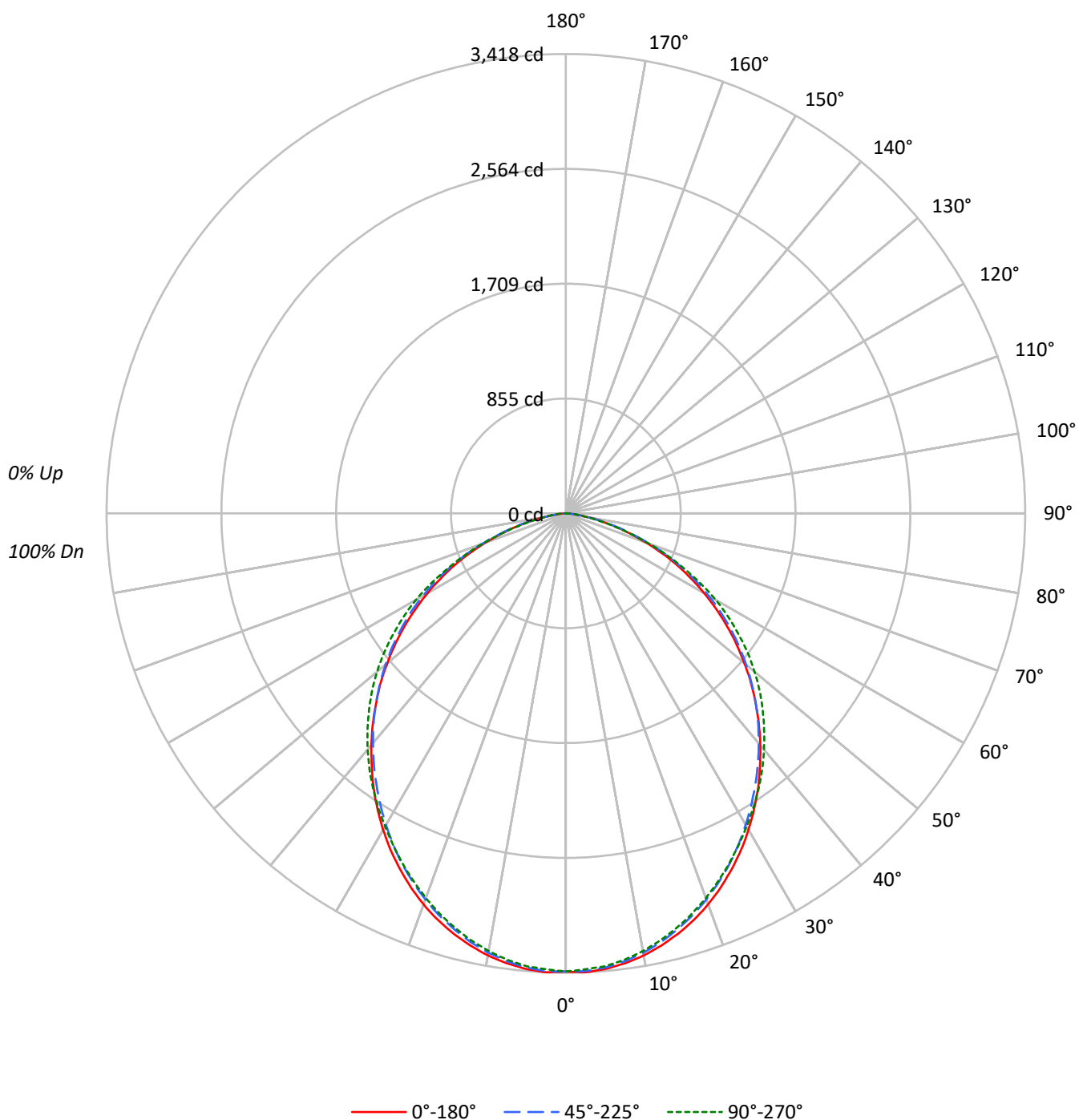
Lumens per Lamp: N/A
Luminaire Lumens: 8413.0 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 102.6
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	93	90		91
2	100	92	86	81	98	91	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	75	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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9174	9174	9174
5°	9191	9162	9134
10°	9127	9071	9033
15°	9015	8929	8892
20°	8867	8756	8722
25°	8671	8551	8535
30°	8448	8317	8360
35°	8195	8077	8214
40°	7909	7844	8058
45°	7599	7606	7883
50°	7260	7333	7676
55°	6878	7017	7362
60°	6405	6609	6934
65°	5815	6051	6174
70°	5004	5238	5166
75°	3971	4126	3798
80°	2665	2650	2394
85°	1359	1618	1933

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7883 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.1	3.8
10°-20°	903.1	10.7
20°-30°	1327.9	15.8
30°-40°	1547.8	18.4
40°-50°	1553.0	18.5
50°-60°	1343.2	16.0
60°-70°	933.0	11.1
70°-80°	414.5	4.9
80°-90°	69.6	0.8
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°	2552.0	30.3
0°-40°	4099.7	48.7
0°-60°	6995.9	83.2
0°-90°	8413.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8413.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3409	3409	3409	3409	3409	
5°	3402	3387	3392	3377	3382	323
15°	3236	3216	3205	3186	3192	912
25°	2920	2897	2880	2862	2874	1345
35°	2494	2467	2459	2475	2500	1558
45°	1997	1979	1998	2043	2072	1541
55°	1466	1454	1496	1550	1569	1309
65°	913	914	950	967	970	903
75°	382	387	397	378	365	410
85°	44	47	52	60	63	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3409.1	3409.1	3409.1	3409.1	3409.1
2.5°	3417.8	3402.9	3409.1	3397.8	3394.8
5°	3402.4	3387.3	3391.9	3377.2	3381.5
7.5°	3375.9	3360.1	3361.2	3345.5	3349.8
10°	3340.0	3321.7	3319.7	3302.3	3305.7
12.5°	3292.2	3273.7	3267.9	3248.3	3254.1
15°	3236.1	3216.0	3205.1	3186.5	3191.9
17.5°	3171.0	3149.2	3136.3	3114.3	3123.0
20°	3096.3	3073.2	3057.7	3034.3	3045.8
22.5°	3012.6	2988.8	2970.7	2950.4	2962.3
25°	2920.5	2896.9	2879.9	2861.8	2874.4
27.5°	2823.6	2797.4	2780.9	2769.4	2783.0
30°	2718.8	2692.1	2676.7	2671.2	2690.6
32.5°	2608.1	2582.0	2569.5	2574.6	2596.8
35°	2494.5	2467.3	2458.8	2474.6	2500.4
37.5°	2372.4	2350.2	2347.4	2373.7	2399.9
40°	2251.4	2228.3	2233.1	2266.3	2293.9
42.5°	2126.3	2106.5	2117.2	2158.5	2184.2
45°	1996.7	1978.8	1998.5	2043.3	2071.5
47.5°	1869.6	1851.0	1877.3	1925.9	1956.0
50°	1734.1	1720.0	1751.7	1805.6	1833.5
52.5°	1599.9	1586.3	1624.6	1681.0	1707.7
55°	1466.0	1454.3	1495.6	1550.2	1569.3
57.5°	1327.6	1322.7	1364.7	1412.3	1431.9
60°	1190.0	1186.2	1228.0	1271.1	1288.4
62.5°	1052.1	1051.6	1090.7	1124.7	1129.7
65°	913.2	914.5	950.3	966.9	969.6
67.5°	772.8	777.8	809.3	816.0	814.7
70°	636.0	638.9	665.8	665.5	656.6
72.5°	503.0	509.3	525.2	517.8	504.3
75°	381.9	387.2	396.8	378.2	365.3
77.5°	269.2	273.1	275.3	255.2	246.6
80°	172.0	177.3	171.0	160.3	154.5
82.5°	95.8	100.8	95.3	101.2	103.9
85°	44.0	46.7	52.4	59.6	62.6
87.5°	15.0	17.6	21.3	22.6	21.0
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	18.63	20.21	19.00	20.53	20.84	19.10	20.68	19.47	21.00	21.31
	3H	20.07	21.50	20.45	21.83	22.19	20.49	21.91	20.87	22.24	22.60
	4H	20.49	21.83	20.89	22.18	22.55	20.84	22.17	21.24	22.52	22.90
	6H	20.69	21.92	21.10	22.29	22.68	20.97	22.21	21.39	22.58	22.97
	8H	20.71	21.89	21.14	22.28	22.68	20.99	22.17	21.42	22.56	22.96
	12H	20.71	21.84	21.14	22.22	22.65	21.00	22.13	21.43	22.51	22.94
4H	2H	19.23	20.56	19.63	20.91	21.29	19.61	20.94	20.01	21.29	21.67
	3H	20.84	21.95	21.25	22.35	22.75	21.18	22.29	21.59	22.69	23.09
	4H	21.34	22.34	21.77	22.76	23.19	21.61	22.61	22.04	23.02	23.46
	6H	21.61	22.48	22.07	22.92	23.38	21.81	22.68	22.26	23.12	23.58
	8H	21.65	22.46	22.11	22.91	23.37	21.84	22.65	22.30	23.10	23.56
	12H	21.66	22.39	22.14	22.86	23.33	21.86	22.59	22.35	23.07	23.54
8H	4H	21.52	22.33	21.98	22.78	23.24	21.76	22.57	22.23	23.02	23.48
	6H	21.84	22.51	22.34	23.00	23.48	22.01	22.68	22.50	23.17	23.64
	8H	21.90	22.50	22.42	23.01	23.50	22.06	22.66	22.58	23.17	23.66
	12H	21.93	22.46	22.44	22.95	23.52	22.11	22.64	22.62	23.13	23.70
12H	4H	21.52	22.24	22.00	22.72	23.19	21.76	22.48	22.24	22.96	23.43
	6H	21.83	22.43	22.34	22.94	23.43	22.00	22.60	22.51	23.11	23.59
	8H	21.93	22.45	22.44	22.95	23.51	22.09	22.61	22.59	23.11	23.67