

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: P1498633

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498633
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-HI-35-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

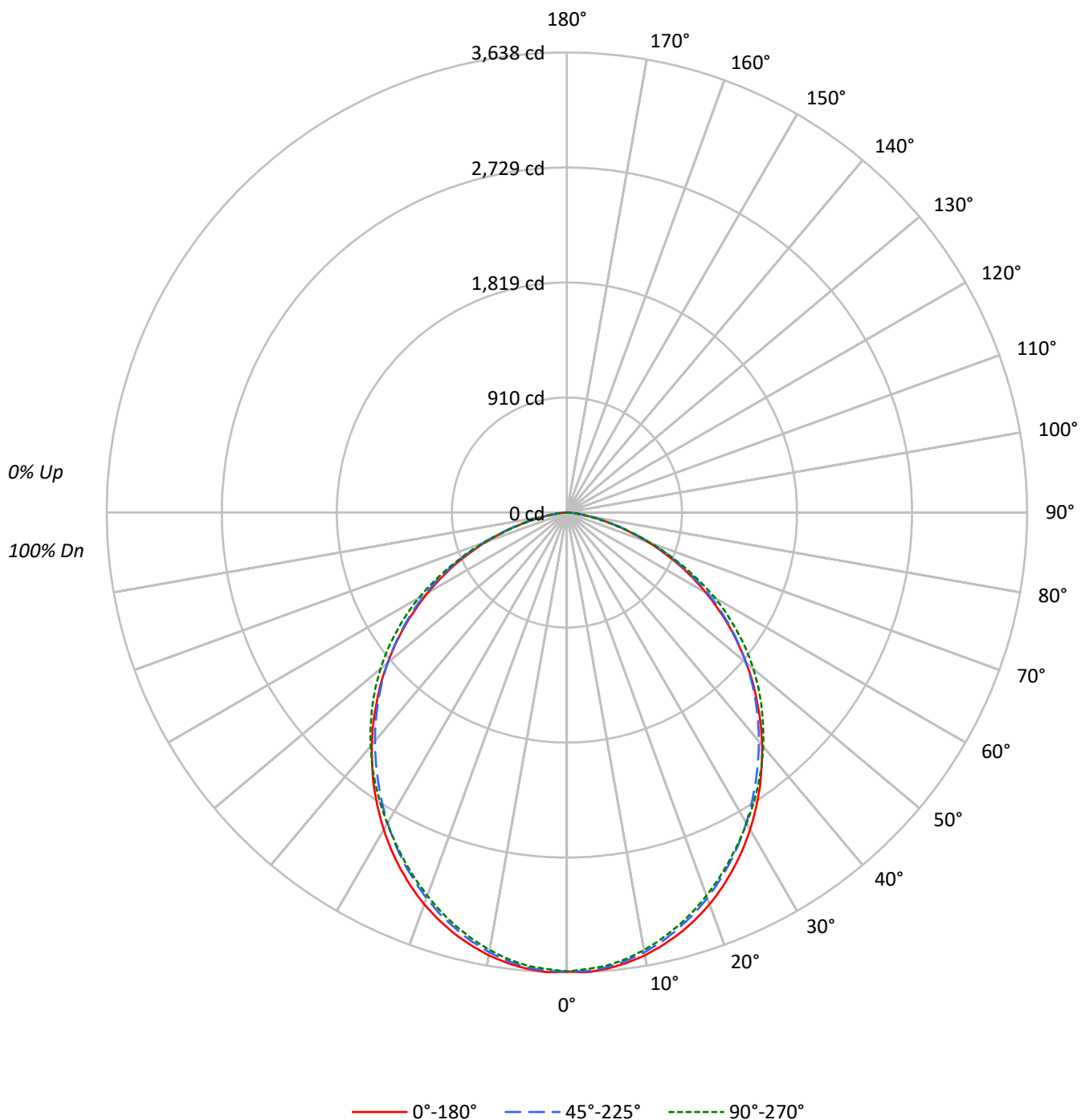
Lumens per Lamp: N/A
Luminaire Lumens: 8920.0 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 110.3
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	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°	9767	9767	9767
5°	9784	9753	9719
10°	9716	9649	9599
15°	9599	9489	9433
20°	9442	9294	9237
25°	9236	9065	9023
30°	9000	8808	8825
35°	8732	8546	8656
40°	8429	8291	8479
45°	8101	8031	8283
50°	7742	7737	8053
55°	7336	7397	7721
60°	6834	6964	7283
65°	6209	6380	6526
70°	5350	5551	5523
75°	4252	4423	4158
80°	2867	2923	2744
85°	1473	1853	2266

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8283 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.7	3.8
10°-20°	959.6	10.8
20°-30°	1408.5	15.8
30°-40°	1639.0	18.4
40°-50°	1641.8	18.4
50°-60°	1418.3	15.9
60°-70°	987.6	11.1
70°-80°	445.4	5.0
80°-90°	78.1	0.9
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°	2709.8	30.4
0°-40°	4348.8	48.8
0°-60°	7408.8	83.1
0°-90°	8920.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8920.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3630	3630	3630	3630	3630	
5°	3622	3607	3610	3593	3598	344
15°	3446	3423	3406	3381	3386	971
25°	3111	3082	3053	3028	3039	1432
35°	2658	2623	2602	2611	2635	1661
45°	2129	2102	2110	2150	2176	1642
55°	1564	1544	1577	1628	1646	1396
65°	975	970	1002	1021	1025	964
75°	409	412	425	411	400	439
85°	48	52	60	70	73	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3629.5	3629.5	3629.5	3629.5	3629.5
2.5°	3638.4	3623.8	3629.5	3616.0	3613.7
5°	3622.2	3607.0	3610.4	3593.0	3597.9
7.5°	3594.1	3577.7	3576.7	3557.7	3562.2
10°	3555.9	3536.6	3531.3	3509.4	3512.8
12.5°	3505.2	3485.1	3474.5	3449.4	3455.0
15°	3445.6	3423.3	3405.9	3380.9	3386.0
17.5°	3376.5	3351.7	3330.7	3301.7	3310.1
20°	3297.2	3270.4	3245.3	3214.7	3225.4
22.5°	3208.4	3179.9	3151.5	3123.6	3134.4
25°	3110.6	3081.6	3053.2	3027.6	3038.9
27.5°	3007.7	2975.3	2946.6	2927.6	2940.0
30°	2896.4	2862.8	2834.7	2822.0	2840.0
32.5°	2778.8	2745.4	2720.0	2718.0	2739.0
35°	2658.1	2622.8	2601.5	2610.6	2635.0
37.5°	2528.3	2498.1	2482.3	2502.4	2527.1
40°	2399.6	2368.2	2360.3	2387.6	2413.7
42.5°	2266.3	2238.4	2236.7	2272.4	2296.6
45°	2128.6	2102.3	2110.3	2149.9	2176.4
47.5°	1993.0	1966.4	1981.5	2025.1	2053.8
50°	1849.2	1826.9	1848.1	1897.4	1923.5
52.5°	1705.9	1684.7	1713.4	1765.5	1790.8
55°	1563.6	1544.2	1576.7	1627.5	1645.7
57.5°	1416.3	1404.3	1438.3	1483.1	1502.2
60°	1269.8	1259.2	1293.9	1335.8	1353.2
62.5°	1122.9	1115.9	1149.4	1183.7	1189.9
65°	975.2	970.3	1002.0	1021.1	1024.9
67.5°	825.7	825.3	854.7	865.2	865.1
70°	680.0	678.0	705.5	709.3	702.0
72.5°	538.3	540.8	559.3	556.3	544.3
75°	409.0	411.5	425.4	411.2	399.9
77.5°	288.8	291.2	298.2	282.4	275.5
80°	185.0	190.5	188.6	181.7	177.1
82.5°	103.4	109.5	107.7	116.6	120.5
85°	47.7	51.6	60.0	69.5	73.4
87.5°	16.3	19.6	24.6	26.3	24.6
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	18.85	20.43	19.21	20.75	21.06	19.24	20.82	19.60	21.13	21.45
	3H	20.30	21.72	20.68	22.05	22.41	20.66	22.08	21.03	22.41	22.77
	4H	20.72	22.06	21.12	22.40	22.78	21.03	22.37	21.43	22.71	23.09
	6H	20.92	22.16	21.33	22.52	22.91	21.19	22.43	21.60	22.79	23.18
	8H	20.94	22.12	21.37	22.51	22.91	21.22	22.40	21.64	22.78	23.18
	12H	20.94	22.07	21.37	22.45	22.88	21.23	22.36	21.66	22.74	23.17
4H	2H	19.43	20.77	19.83	21.12	21.50	19.75	21.08	20.15	21.43	21.81
	3H	21.06	22.17	21.47	22.57	22.97	21.35	22.46	21.76	22.86	23.26
	4H	21.56	22.56	21.99	22.98	23.41	21.81	22.81	22.24	23.22	23.66
	6H	21.84	22.71	22.29	23.15	23.61	22.04	22.91	22.50	23.35	23.81
	8H	21.88	22.69	22.34	23.13	23.60	22.08	22.90	22.55	23.34	23.81
	12H	21.89	22.61	22.37	23.09	23.56	22.12	22.84	22.60	23.32	23.79
8H	4H	21.75	22.56	22.21	23.00	23.47	21.97	22.78	22.43	23.23	23.69
	6H	22.07	22.74	22.57	23.23	23.71	22.25	22.92	22.75	23.41	23.89
	8H	22.14	22.74	22.65	23.25	23.73	22.32	22.92	22.83	23.43	23.92
	12H	22.17	22.70	22.68	23.19	23.76	22.39	22.92	22.90	23.41	23.97
12H	4H	21.74	22.47	22.22	22.95	23.42	21.97	22.69	22.45	23.17	23.64
	6H	22.07	22.67	22.58	23.18	23.66	22.24	22.84	22.76	23.35	23.84
	8H	22.17	22.69	22.67	23.19	23.75	22.35	22.88	22.86	23.37	23.93