

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: P1498684

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498684
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-40-90-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

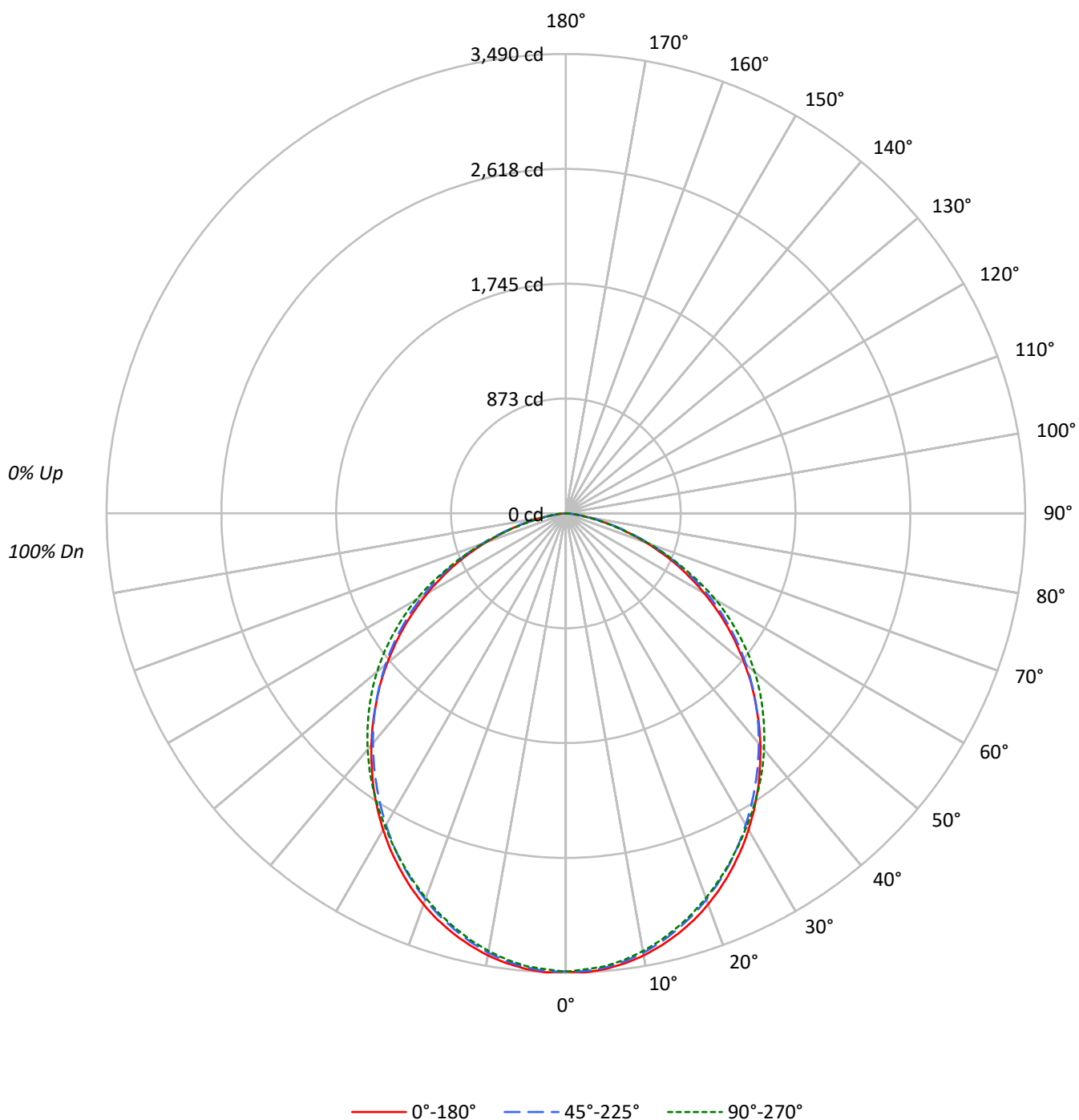
Lumens per Lamp: N/A
Luminaire Lumens: 8591.0 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	9368	9368	9368
5°	9385	9356	9328
10°	9319	9263	9224
15°	9206	9118	9080
20°	9054	8942	8907
25°	8855	8732	8715
30°	8627	8493	8537
35°	8368	8249	8388
40°	8076	8011	8228
45°	7759	7767	8050
50°	7413	7489	7838
55°	7024	7165	7518
60°	6539	6749	7081
65°	5937	6179	6305
70°	5109	5350	5275
75°	4055	4214	3878
80°	2721	2706	2444
85°	1389	1652	1973

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8050 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.8	3.8
10°-20°	922.2	10.7
20°-30°	1355.9	15.8
30°-40°	1580.5	18.4
40°-50°	1585.8	18.5
50°-60°	1371.6	16.0
60°-70°	952.7	11.1
70°-80°	423.3	4.9
80°-90°	71.1	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°	2606.0	30.3
0°-40°	4186.5	48.7
0°-60°	7143.9	83.2
0°-90°	8591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8591.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3481	3481	3481	3481	3481	
5°	3474	3459	3464	3449	3453	330
15°	3304	3284	3273	3254	3259	931
25°	2982	2958	2941	2922	2935	1373
35°	2547	2519	2511	2527	2553	1591
45°	2039	2021	2041	2087	2115	1573
55°	1497	1485	1527	1583	1602	1336
65°	932	934	970	987	990	922
75°	390	395	405	386	373	419
85°	45	48	54	61	64	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3481.2	3481.2	3481.2	3481.2	3481.2
2.5°	3490.2	3474.9	3481.2	3469.7	3466.6
5°	3474.4	3459.0	3463.6	3448.7	3453.1
7.5°	3447.4	3431.2	3432.3	3416.3	3420.6
10°	3410.6	3392.1	3389.9	3372.2	3375.6
12.5°	3361.8	3342.9	3336.9	3316.9	3322.9
15°	3304.5	3284.0	3272.9	3253.9	3259.4
17.5°	3238.1	3215.8	3202.7	3180.2	3189.1
20°	3161.7	3138.2	3122.4	3098.4	3110.2
22.5°	3076.4	3052.0	3033.6	3012.8	3025.0
25°	2982.2	2958.2	2940.8	2922.4	2935.1
27.5°	2883.4	2856.6	2839.7	2827.9	2842.0
30°	2776.3	2749.0	2733.2	2727.7	2747.5
32.5°	2663.3	2636.7	2623.9	2629.1	2651.8
35°	2547.3	2519.4	2510.9	2527.0	2553.3
37.5°	2422.5	2399.9	2397.1	2423.9	2450.7
40°	2299.1	2275.4	2280.4	2314.3	2342.4
42.5°	2171.2	2151.1	2162.0	2204.1	2230.5
45°	2038.9	2020.8	2040.8	2086.6	2115.3
47.5°	1909.1	1890.1	1917.0	1966.7	1997.5
50°	1770.8	1756.4	1788.8	1843.8	1872.3
52.5°	1633.8	1619.9	1658.9	1716.6	1743.9
55°	1497.1	1485.0	1527.3	1583.0	1602.5
57.5°	1355.7	1350.7	1393.7	1442.1	1462.3
60°	1215.0	1211.3	1254.0	1298.0	1315.6
62.5°	1074.3	1073.9	1113.8	1148.4	1153.6
65°	932.4	933.8	970.4	987.3	990.2
67.5°	789.1	794.2	826.4	833.3	832.0
70°	649.3	652.4	680.0	679.5	670.4
72.5°	513.7	520.1	536.3	528.8	515.0
75°	390.0	395.4	405.3	386.2	373.0
77.5°	275.0	278.9	281.1	260.5	251.8
80°	175.6	181.2	174.6	163.7	157.7
82.5°	97.8	102.9	97.4	103.3	106.2
85°	45.0	47.6	53.5	60.9	63.9
87.5°	15.4	17.9	21.8	23.2	21.5
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	18.70	20.29	19.07	20.60	20.92	19.17	20.76	19.54	21.07	21.39
	3H	20.15	21.57	20.52	21.90	22.26	20.56	21.98	20.94	22.31	22.67
	4H	20.56	21.90	20.96	22.25	22.63	20.91	22.25	21.31	22.60	22.97
	6H	20.76	22.00	21.17	22.36	22.75	21.05	22.28	21.46	22.65	23.04
	8H	20.78	21.96	21.21	22.35	22.75	21.07	22.24	21.49	22.63	23.03
	12H	20.78	21.91	21.21	22.29	22.72	21.07	22.20	21.50	22.58	23.01
4H	2H	19.30	20.64	19.70	20.98	21.36	19.68	21.02	20.08	21.36	21.74
	3H	20.92	22.03	21.33	22.42	22.83	21.25	22.36	21.66	22.76	23.16
	4H	21.42	22.42	21.85	22.83	23.27	21.68	22.68	22.11	23.09	23.53
	6H	21.69	22.56	22.14	23.00	23.46	21.88	22.75	22.34	23.19	23.65
	8H	21.72	22.54	22.19	22.98	23.45	21.91	22.73	22.38	23.17	23.63
	12H	21.73	22.46	22.22	22.94	23.41	21.94	22.66	22.42	23.14	23.61
8H	4H	21.59	22.41	22.06	22.85	23.32	21.84	22.65	22.30	23.09	23.56
	6H	21.92	22.58	22.41	23.07	23.55	22.08	22.75	22.58	23.24	23.72
	8H	21.98	22.58	22.49	23.08	23.57	22.14	22.73	22.65	23.24	23.73
	12H	22.01	22.54	22.52	23.03	23.59	22.19	22.71	22.70	23.21	23.77
12H	4H	21.59	22.31	22.07	22.79	23.26	21.83	22.56	22.31	23.03	23.50
	6H	21.91	22.51	22.42	23.01	23.50	22.07	22.67	22.58	23.18	23.67
	8H	22.00	22.53	22.51	23.02	23.58	22.16	22.69	22.67	23.18	23.74