

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: P1498627

Luminaire Tested: MAE-G-2-120-3HI-HI-30-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498627
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-30-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

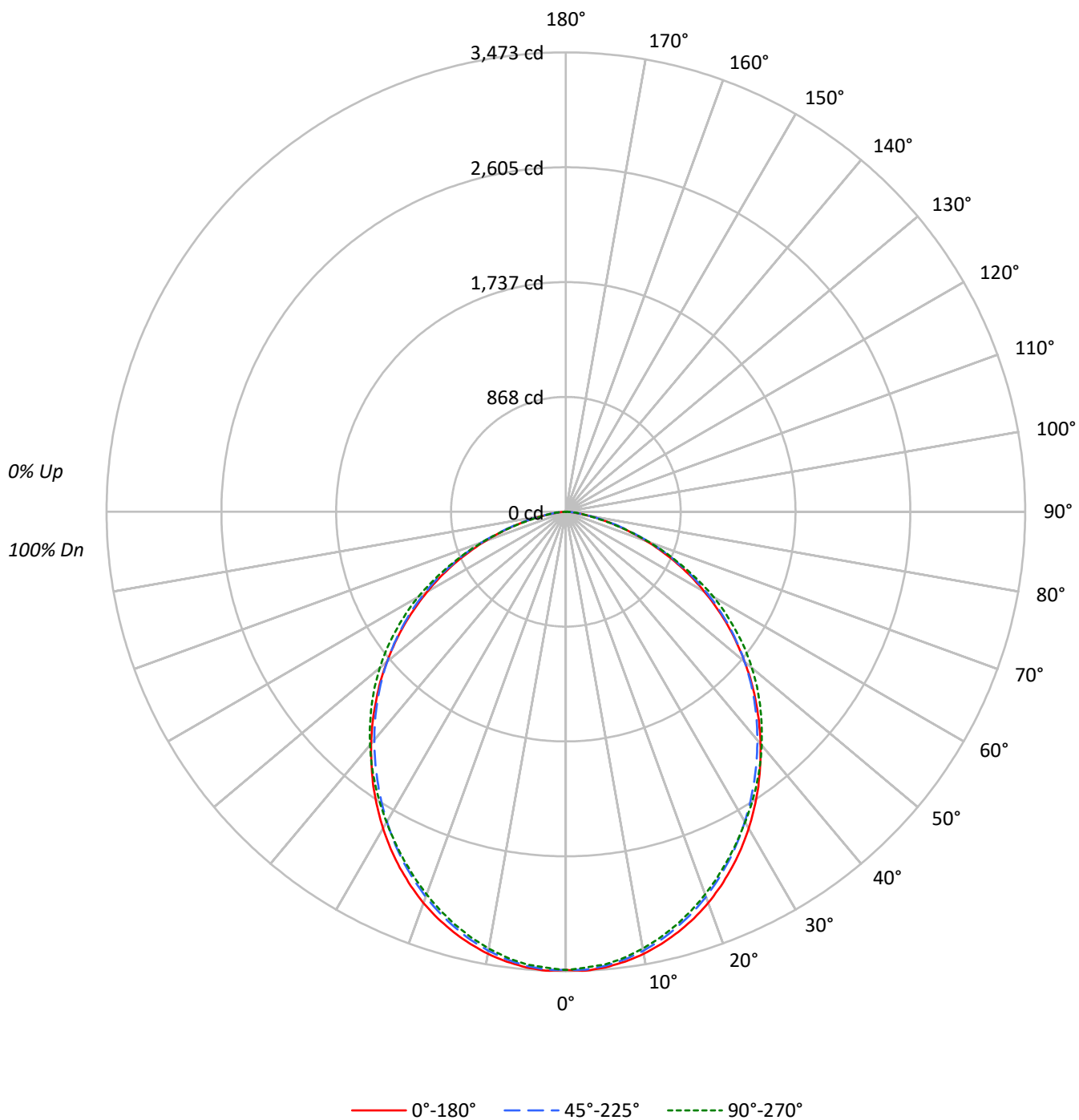
Lumens per Lamp: N/A
Luminaire Lumens: 8514.0 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	9322	9322	9322
5°	9339	9309	9277
10°	9274	9210	9162
15°	9162	9057	9003
20°	9012	8871	8816
25°	8816	8653	8612
30°	8590	8407	8423
35°	8334	8157	8262
40°	8045	7914	8093
45°	7732	7665	7905
50°	7389	7385	7686
55°	7002	7061	7370
60°	6522	6647	6951
65°	5927	6090	6229
70°	5106	5298	5271
75°	4059	4221	3968
80°	2735	2789	2619
85°	1408	1766	2161

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7905 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.1	3.8
10°-20°	916.0	10.8
20°-30°	1344.4	15.8
30°-40°	1564.4	18.4
40°-50°	1567.0	18.4
50°-60°	1353.7	15.9
60°-70°	942.7	11.1
70°-80°	425.1	5.0
80°-90°	74.6	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°	2586.5	30.4
0°-40°	4150.8	48.8
0°-60°	7071.6	83.1
0°-90°	8514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8514.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3464	3464	3464	3464	3464	
5°	3457	3443	3446	3430	3434	328
15°	3289	3268	3251	3227	3232	927
25°	2969	2941	2914	2890	2901	1367
35°	2537	2503	2483	2492	2515	1585
45°	2032	2007	2014	2052	2077	1568
55°	1492	1474	1505	1553	1571	1332
65°	931	926	956	975	978	920
75°	390	393	406	392	382	419
85°	46	49	57	66	70	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3464.3	3464.3	3464.3	3464.3	3464.3
2.5°	3472.8	3458.9	3464.3	3451.4	3449.2
5°	3457.3	3442.8	3446.0	3429.5	3434.2
7.5°	3430.5	3414.9	3414.0	3395.8	3400.0
10°	3394.1	3375.7	3370.6	3349.7	3353.0
12.5°	3345.7	3326.5	3316.3	3292.4	3297.8
15°	3288.7	3267.5	3250.9	3227.1	3231.8
17.5°	3222.8	3199.1	3179.2	3151.4	3159.5
20°	3147.1	3121.5	3097.6	3068.3	3078.6
22.5°	3062.3	3035.2	3008.0	2981.5	2991.7
25°	2969.1	2941.2	2914.3	2889.8	2900.6
27.5°	2870.8	2840.0	2812.5	2794.3	2806.2
30°	2764.5	2732.5	2705.6	2693.5	2710.8
32.5°	2652.3	2620.5	2596.2	2594.4	2614.3
35°	2537.0	2503.4	2483.1	2491.8	2515.1
37.5°	2413.1	2384.5	2369.3	2388.4	2412.0
40°	2290.3	2260.4	2252.8	2278.9	2303.8
42.5°	2163.2	2136.6	2134.9	2169.0	2192.1
45°	2031.7	2006.7	2014.2	2052.0	2077.3
47.5°	1902.3	1876.8	1891.3	1933.0	1960.4
50°	1765.0	1743.8	1764.1	1811.1	1836.0
52.5°	1628.3	1608.0	1635.4	1685.1	1709.3
55°	1492.5	1473.8	1505.0	1553.4	1570.8
57.5°	1351.9	1340.4	1372.9	1415.6	1433.9
60°	1211.9	1201.8	1235.1	1274.9	1291.6
62.5°	1071.8	1065.1	1097.1	1129.7	1135.6
65°	930.8	926.1	956.4	974.6	978.3
67.5°	788.1	787.7	815.8	825.8	825.8
70°	649.0	647.0	673.4	677.0	670.0
72.5°	513.8	516.1	533.8	531.0	519.6
75°	390.4	392.8	406.0	392.4	381.6
77.5°	275.7	277.9	284.6	269.5	263.0
80°	176.5	181.8	180.0	173.4	169.0
82.5°	98.7	104.5	102.9	111.2	115.0
85°	45.6	49.3	57.2	66.3	70.0
87.5°	15.6	18.7	23.5	25.1	23.5
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	18.69	20.27	19.05	20.59	20.90	19.07	20.66	19.44	20.97	21.29
	3H	20.14	21.56	20.51	21.89	22.25	20.49	21.92	20.87	22.24	22.61
	4H	20.56	21.89	20.95	22.24	22.62	20.87	22.20	21.27	22.55	22.93
	6H	20.76	21.99	21.17	22.36	22.75	21.03	22.26	21.44	22.63	23.02
	8H	20.78	21.96	21.21	22.35	22.75	21.05	22.23	21.48	22.62	23.02
	12H	20.78	21.91	21.21	22.29	22.72	21.07	22.20	21.50	22.58	23.01
4H	2H	19.27	20.61	19.67	20.96	21.33	19.59	20.92	19.98	21.27	21.65
	3H	20.89	22.01	21.30	22.41	22.81	21.19	22.30	21.60	22.70	23.10
	4H	21.40	22.40	21.83	22.81	23.25	21.65	22.65	22.08	23.06	23.50
	6H	21.68	22.55	22.13	22.99	23.44	21.88	22.75	22.33	23.19	23.65
	8H	21.72	22.53	22.18	22.97	23.44	21.92	22.74	22.38	23.18	23.64
	12H	21.73	22.45	22.21	22.93	23.40	21.96	22.68	22.44	23.16	23.63
8H	4H	21.58	22.40	22.05	22.84	23.31	21.81	22.62	22.27	23.07	23.53
	6H	21.91	22.58	22.41	23.07	23.55	22.09	22.76	22.58	23.25	23.72
	8H	21.98	22.58	22.49	23.09	23.57	22.16	22.76	22.67	23.27	23.76
	12H	22.01	22.54	22.52	23.03	23.59	22.23	22.75	22.73	23.25	23.81
12H	4H	21.58	22.31	22.06	22.78	23.25	21.81	22.53	22.29	23.01	23.48
	6H	21.91	22.51	22.42	23.01	23.50	22.08	22.68	22.59	23.19	23.68
	8H	22.00	22.53	22.51	23.02	23.59	22.19	22.72	22.70	23.21	23.77