

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: P1498639

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498639
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-40-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

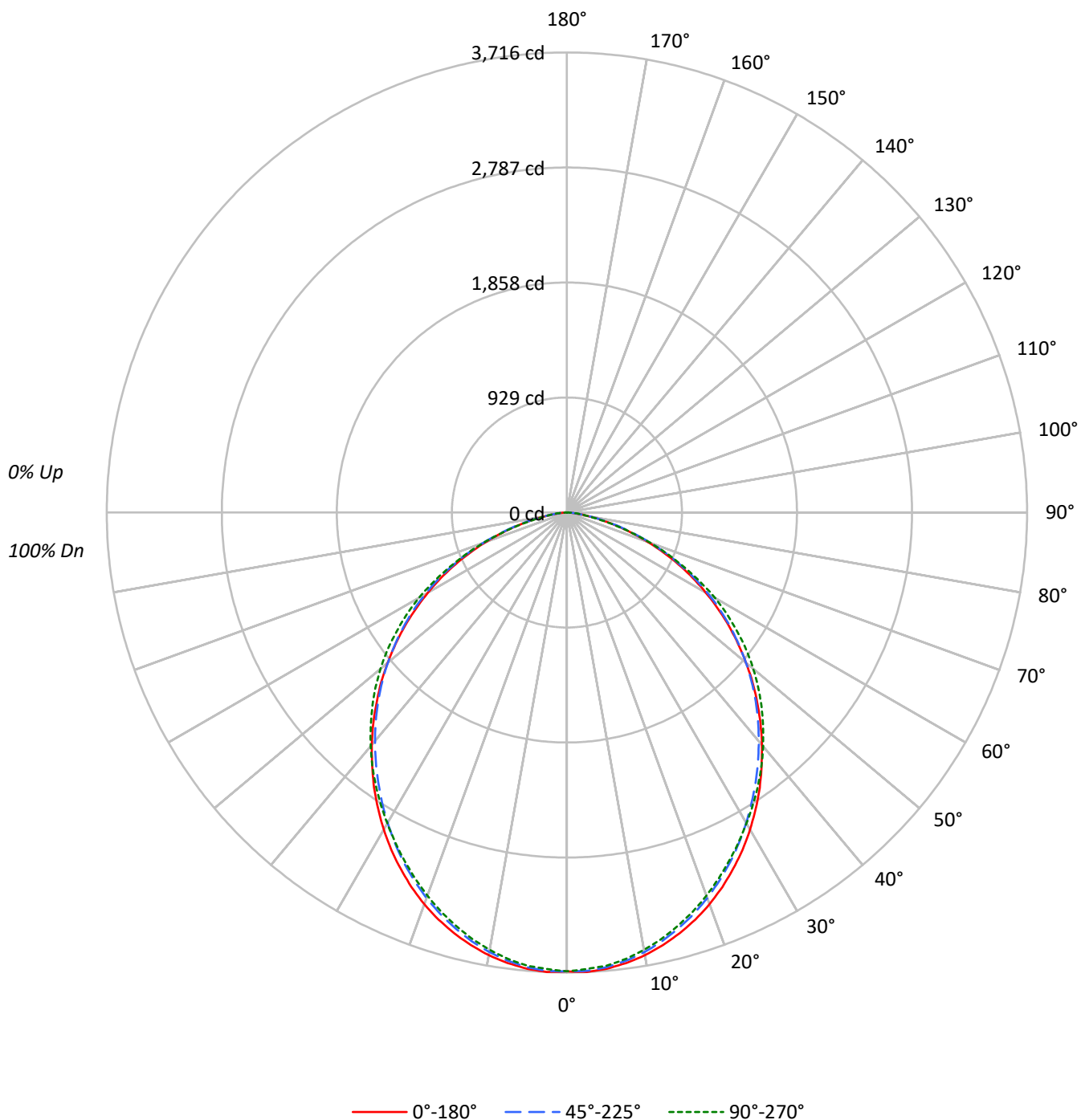
Lumens per Lamp: N/A
Luminaire Lumens: 9109.0 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	9974	9974	9974
5°	9992	9959	9925
10°	9922	9854	9802
15°	9802	9690	9633
20°	9642	9491	9432
25°	9432	9258	9214
30°	9190	8995	9012
35°	8917	8727	8840
40°	8608	8467	8658
45°	8272	8201	8458
50°	7905	7901	8223
55°	7492	7554	7885
60°	6978	7112	7437
65°	6341	6515	6665
70°	5463	5669	5640
75°	4343	4517	4245
80°	2926	2985	2802
85°	1507	1893	2316

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8458 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.9	3.8
10°-20°	980.0	10.8
20°-30°	1438.4	15.8
30°-40°	1673.7	18.4
40°-50°	1676.6	18.4
50°-60°	1448.3	15.9
60°-70°	1008.6	11.1
70°-80°	454.9	5.0
80°-90°	79.8	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°	2767.2	30.4
0°-40°	4440.9	48.8
0°-60°	7565.8	83.1
0°-90°	9109.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9109.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3706	3706	3706	3706	3706	
5°	3699	3683	3687	3669	3674	351
15°	3519	3496	3478	3453	3458	992
25°	3176	3147	3118	3092	3103	1463
35°	2714	2678	2657	2666	2691	1696
45°	2174	2147	2155	2196	2222	1677
55°	1597	1577	1610	1662	1681	1425
65°	996	991	1023	1043	1047	984
75°	418	420	434	420	408	449
85°	49	53	61	71	75	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3706.3	3706.3	3706.3	3706.3	3706.3
2.5°	3715.5	3700.6	3706.3	3692.6	3690.3
5°	3698.9	3683.4	3686.9	3669.2	3674.2
7.5°	3670.2	3653.5	3652.6	3633.0	3637.6
10°	3631.2	3611.6	3606.1	3583.8	3587.2
12.5°	3579.5	3558.9	3548.0	3522.5	3528.2
15°	3518.6	3495.8	3478.1	3452.6	3457.7
17.5°	3448.0	3422.7	3401.4	3371.7	3380.2
20°	3367.0	3339.6	3314.1	3282.7	3293.8
22.5°	3276.4	3247.3	3218.3	3189.8	3200.8
25°	3176.5	3146.9	3118.0	3091.8	3103.3
27.5°	3071.5	3038.4	3009.0	2989.6	3002.4
30°	2957.7	2923.5	2894.7	2881.8	2900.2
32.5°	2837.8	2803.5	2777.6	2775.7	2797.0
35°	2714.4	2678.3	2656.6	2666.0	2690.9
37.5°	2581.8	2551.1	2534.9	2555.4	2580.6
40°	2450.4	2418.4	2410.3	2438.1	2464.8
42.5°	2314.4	2285.9	2284.1	2320.5	2345.3
45°	2173.7	2147.0	2154.9	2195.5	2222.5
47.5°	2035.2	2008.0	2023.5	2068.1	2097.4
50°	1888.3	1865.7	1887.4	1937.7	1964.3
52.5°	1742.1	1720.4	1749.6	1802.9	1828.8
55°	1596.8	1576.9	1610.2	1662.0	1680.6
57.5°	1446.3	1434.0	1468.9	1514.5	1534.1
60°	1296.6	1285.8	1321.4	1364.0	1381.8
62.5°	1146.7	1139.6	1173.8	1208.7	1215.0
65°	995.8	990.9	1023.2	1042.7	1046.7
67.5°	843.2	842.8	872.8	883.6	883.5
70°	694.3	692.3	720.5	724.3	716.8
72.5°	549.8	552.2	571.1	568.2	555.9
75°	417.7	420.2	434.4	419.8	408.3
77.5°	294.9	297.4	304.5	288.3	281.4
80°	188.8	194.6	192.6	185.6	180.8
82.5°	105.6	111.8	110.0	119.1	123.1
85°	48.8	52.7	61.3	71.0	75.0
87.5°	16.6	20.0	25.2	27.0	25.1
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	18.92	20.51	19.29	20.82	21.13	19.31	20.89	19.67	21.21	21.52
	3H	20.37	21.80	20.75	22.12	22.48	20.73	22.15	21.11	22.48	22.84
	4H	20.79	22.13	21.19	22.48	22.85	21.10	22.44	21.50	22.79	23.16
	6H	20.99	22.23	21.40	22.59	22.99	21.26	22.50	21.67	22.86	23.25
	8H	21.02	22.20	21.44	22.58	22.98	21.29	22.47	21.71	22.86	23.26
	12H	21.01	22.14	21.44	22.52	22.95	21.30	22.43	21.73	22.81	23.24
4H	2H	19.51	20.84	19.91	21.19	21.57	19.82	21.16	20.22	21.51	21.88
	3H	21.13	22.24	21.54	22.64	23.04	21.42	22.54	21.83	22.93	23.33
	4H	21.63	22.63	22.07	23.05	23.49	21.88	22.88	22.31	23.30	23.73
	6H	21.91	22.78	22.37	23.22	23.68	22.11	22.98	22.57	23.42	23.88
	8H	21.95	22.76	22.41	23.21	23.67	22.16	22.97	22.62	23.41	23.88
	12H	21.96	22.69	22.44	23.16	23.63	22.19	22.92	22.67	23.39	23.86
8H	4H	21.82	22.63	22.28	23.07	23.54	22.04	22.86	22.51	23.30	23.77
	6H	22.15	22.82	22.64	23.31	23.78	22.32	22.99	22.82	23.48	23.96
	8H	22.21	22.81	22.72	23.32	23.81	22.40	23.00	22.91	23.50	23.99
	12H	22.24	22.77	22.75	23.26	23.83	22.46	22.99	22.97	23.48	24.04
12H	4H	21.81	22.54	22.30	23.02	23.49	22.04	22.77	22.52	23.24	23.71
	6H	22.14	22.74	22.65	23.25	23.74	22.32	22.92	22.83	23.43	23.91
	8H	22.24	22.77	22.75	23.26	23.82	22.42	22.95	22.93	23.44	24.01

END OF REPORT