

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: P1498948

Luminaire Tested: MAE-G-4-120-1HI-LO-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1HI-LO-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

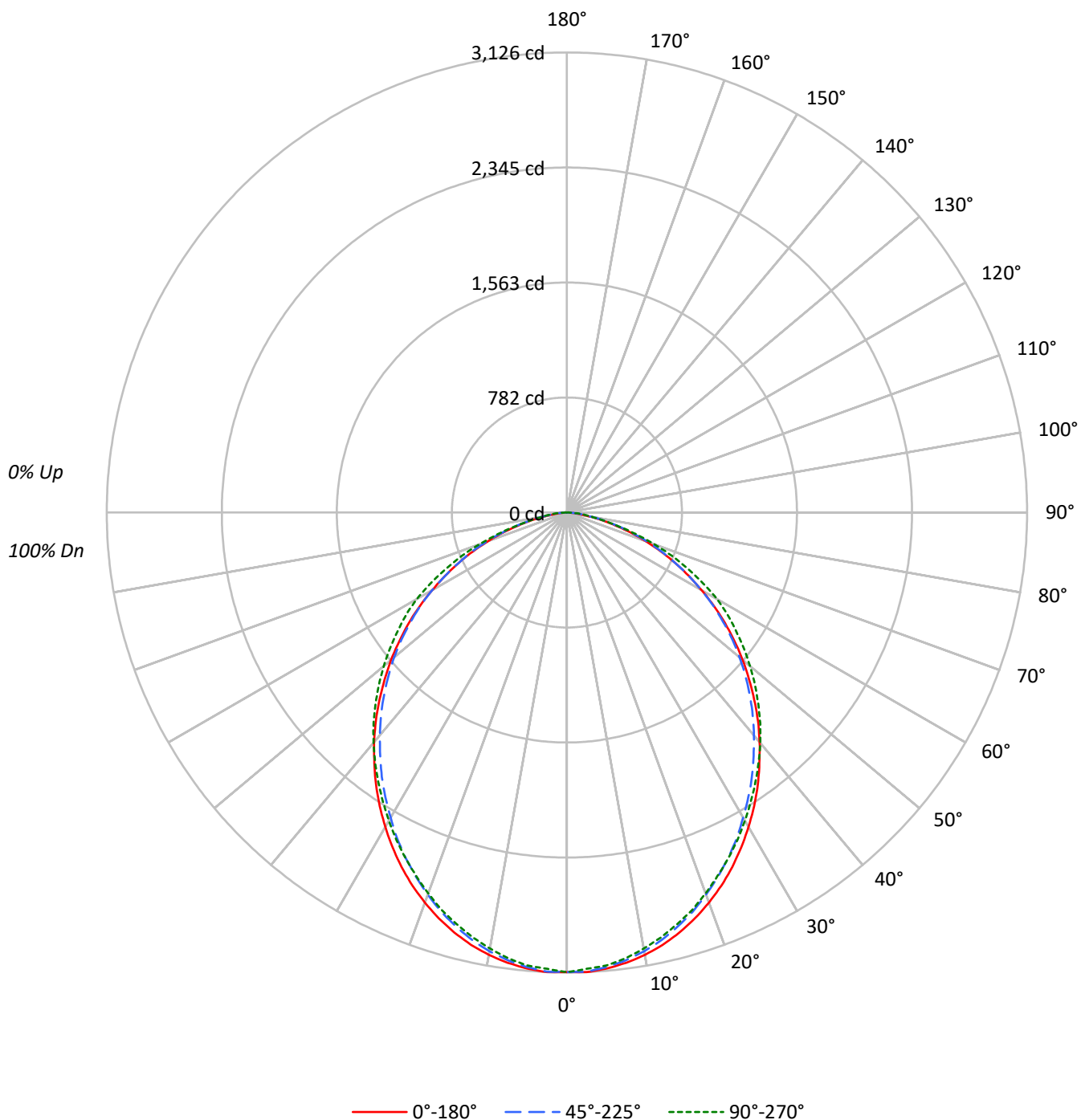
Lumens per Lamp: N/A
Luminaire Lumens: 7556.0 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 92.5
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	76	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	45	39	51	44	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4201	4201	4201
5°	4202	4188	4174
10°	4170	4136	4110
15°	4116	4056	4033
20°	4039	3956	3943
25°	3946	3846	3850
30°	3833	3719	3757
35°	3714	3600	3670
40°	3578	3472	3589
45°	3425	3344	3496
50°	3264	3206	3399
55°	3077	3039	3286
60°	2846	2847	3173
65°	2581	2583	2893
70°	2233	2288	2489
75°	1771	1884	1907
80°	1213	1367	1382
85°	672	983	1223

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3496 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.5	3.9
10°-20°	821.6	10.9
20°-30°	1199.7	15.9
30°-40°	1387.3	18.4
40°-50°	1379.2	18.3
50°-60°	1184.8	15.7
60°-70°	828.8	11.0
70°-80°	384.6	5.1
80°-90°	76.6	1.0
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°	2314.7	30.6
0°-40°	3702.0	49.0
0°-60°	6266.0	82.9
0°-90°	7556.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7556.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3123	3123	3123	3123	3123	
5°	3111	3108	3101	3084	3090	295
15°	2955	2943	2912	2888	2895	832
25°	2658	2630	2590	2579	2593	1223
35°	2261	2225	2192	2209	2234	1412
45°	1800	1771	1758	1806	1837	1389
55°	1312	1285	1296	1360	1401	1171
65°	811	791	811	879	909	803
75°	341	333	362	374	367	368
85°	44	51	64	75	79	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3122.6	3122.6	3122.6	3122.6	3122.6
2.5°	3126.4	3128.4	3122.6	3101.3	3103.6
5°	3111.2	3108.2	3100.9	3083.7	3090.1
7.5°	3085.9	3082.6	3069.4	3050.0	3054.6
10°	3052.4	3045.6	3027.1	3003.6	3008.5
12.5°	3009.1	3001.1	2975.5	2950.6	2956.6
15°	2954.6	2942.6	2911.5	2887.9	2895.0
17.5°	2891.9	2880.0	2843.5	2818.3	2831.1
20°	2820.9	2803.8	2762.8	2741.3	2754.0
22.5°	2743.3	2721.1	2679.7	2661.1	2673.7
25°	2657.8	2630.2	2590.4	2579.1	2593.4
27.5°	2565.2	2535.5	2497.0	2488.9	2508.2
30°	2466.8	2435.5	2393.9	2397.0	2418.0
32.5°	2366.4	2333.8	2293.9	2305.7	2326.7
35°	2261.0	2224.9	2191.9	2208.8	2234.2
37.5°	2148.1	2114.6	2083.1	2115.0	2139.7
40°	2036.9	2002.0	1976.8	2015.7	2043.5
42.5°	1921.2	1888.7	1868.7	1912.1	1944.1
45°	1799.8	1771.1	1757.6	1806.0	1837.3
47.5°	1679.1	1649.8	1645.2	1697.4	1732.6
50°	1559.1	1532.2	1531.5	1588.8	1623.8
52.5°	1434.3	1408.2	1416.1	1474.7	1515.5
55°	1311.7	1285.0	1295.7	1360.0	1401.0
57.5°	1185.8	1167.5	1178.3	1246.8	1295.5
60°	1057.6	1038.5	1057.9	1135.7	1179.0
62.5°	933.4	914.0	932.7	1016.1	1043.1
65°	810.7	790.8	811.3	879.1	908.6
67.5°	691.0	671.3	699.5	758.5	776.3
70°	567.5	550.6	581.6	627.9	632.8
72.5°	452.7	437.5	472.0	498.0	494.9
75°	340.7	332.8	362.4	373.5	366.8
77.5°	243.3	239.0	262.5	264.9	258.9
80°	156.6	160.4	176.4	176.2	178.4
82.5°	90.9	97.4	108.8	123.0	125.3
85°	43.5	51.4	63.7	75.0	79.2
87.5°	15.3	20.5	26.1	28.7	28.0
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	15.74	17.32	16.11	17.64	17.95	16.24	17.82	16.60	18.14	18.45
	3H	17.17	18.59	17.54	18.92	19.28	17.79	19.21	18.17	19.54	19.90
	4H	17.58	18.92	17.98	19.27	19.64	18.21	19.54	18.61	19.89	20.27
	6H	17.79	19.03	18.20	19.39	19.78	18.41	19.65	18.83	20.02	20.41
	8H	17.82	19.00	18.25	19.39	19.79	18.47	19.64	18.89	20.03	20.43
	12H	17.82	18.95	18.25	19.33	19.76	18.50	19.63	18.93	20.01	20.44
4H	2H	16.29	17.63	16.69	17.97	18.35	16.70	18.03	17.09	18.38	18.76
	3H	17.89	19.01	18.30	19.40	19.81	18.44	19.55	18.85	19.95	20.35
	4H	18.39	19.39	18.82	19.81	20.24	18.96	19.96	19.39	20.38	20.82
	6H	18.68	19.55	19.13	19.99	20.45	19.25	20.12	19.71	20.57	21.02
	8H	18.72	19.54	19.19	19.98	20.45	19.33	20.14	19.79	20.59	21.05
	12H	18.74	19.47	19.22	19.95	20.42	19.39	20.12	19.87	20.60	21.07
8H	4H	18.60	19.41	19.06	19.86	20.32	19.12	19.93	19.58	20.38	20.84
	6H	18.95	19.62	19.44	20.11	20.58	19.47	20.15	19.97	20.64	21.11
	8H	19.02	19.62	19.53	20.13	20.62	19.59	20.19	20.10	20.70	21.19
	12H	19.07	19.60	19.58	20.09	20.65	19.70	20.23	20.21	20.72	21.28
12H	4H	18.61	19.33	19.09	19.81	20.28	19.12	19.84	19.60	20.32	20.79
	6H	18.95	19.56	19.46	20.06	20.55	19.47	20.07	19.98	20.58	21.07
	8H	19.07	19.60	19.58	20.09	20.65	19.63	20.16	20.14	20.65	21.21